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<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>
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<td>AANB_V 530-003</td>
<td>AANB_V</td>
<td>500</td>
<td>003</td>
<td>Graduate Seminar</td>
<td>W1-2</td>
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<td>AANB_V 504-001</td>
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<td>Research Methodology in Applied Animal Biology</td>
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<td>Directed Studies</td>
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<td>W1-2</td>
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<td>230</td>
<td>002</td>
<td>Asian Canadians in Popular Culture</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<td>001</td>
<td>Diasporic Orienting Asian Canada</td>
<td>W1</td>
<td>Multi-access learning</td>
<td>Tue Thu</td>
<td>8:30 a.m. - 10:00 a.m.</td>
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In Person Learning

Planning, conducting and evaluating instruction for adults. Consideration is given to different beliefs and ways of thinking about teaching. [3-0-0]

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Course Title | Code | Days | Time | Format | Notes
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Introduction to African Studies | AFST_V 250-A_101 | W1 | 11:00 a.m. - 12:30 p.m. | In Person Learning | Tue Thu
Introduction to African Studies | AFST_V 250-A_201 | W2 | 1:00 p.m. - 2:00 p.m. | In Person Learning | Tue Thu
The Languages of Africa | AFST_V 330-201 | W2 | 1:00 p.m. - 2:00 p.m. | Online Learning | Tue Thu
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 330 or INGL 330. Equivalency: INGL 330

Perspectives in African Studies: A Social Science Approach | AFST_V 352-201 | W2 | 2:00 p.m. - 3:30 p.m. | Online Learning | Tue Thu
Literary and cultural works from Africa; some sections include Africa and the Middle East. Multiple perspectives of local, national, and global issues including colonizers, migrations, transnationalism, education, art, and politics. May include fiction, poetry, drama, digital media, and other forms. Consult department website for current year’s offerings. Credit will be granted for only one of AFST 370 or INGL 370. Prerequisite: For ENGL courses at the 300- or 400- level, prior completion of at least one 100- level ENGL course is recommended. Equivalency: ENGL 370

AFST_V 250-A_101 | W1 | 1:00 p.m. - 2:00 p.m. | In Person Learning | Tue Thu
AFST_V 250-A_201 | W2 | 2:00 p.m. - 3:00 p.m. | In Person Learning | Tue Thu
AFST_V 330-201 | W2 | 2:00 p.m. - 3:00 p.m. | Online Learning | Tue Thu
AFST_V 352-201 | W2 | 2:00 p.m. - 3:30 p.m. | Online Learning | Tue Thu
AFST_V 370-A_201 | W2 | 2:00 p.m. - 3:30 p.m. | Online Learning | Tue Thu
AFST_V 450-R_201 | AFST_V | 101 | R | R_201 | African Diasporic Culture in African Canadian Communities | W2 | 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 | 9:00 a.m. - 11:00 a.m.

AMNE_V 101-001 | AMNE_V | 101 | D01 | Greek and Latin Roots of English | W1 | Greek and Latin roots of English vocabulary and grammar, with an introduction to language history and Greek and Roman culture. Credit will be granted for only one of CLST 105 or AMNE 151. | Online Learning | Arranged | Arranged

AMNE_V 101-002 | AMNE_V | 101 | D02 | Greek and Latin Roots of English | W2 | Greek and Latin roots of English vocabulary and grammar, with an introduction to language history and Greek and Roman culture. Credit will be granted for only one of CLST 105 or AMNE 151. | Online Learning | Arranged | Arranged

AMNE_V 151-CMU_001 | AMNE_V | 101 | CMU_001 | Greek and Latin Roots of English | W2 | Greek and Latin roots of English vocabulary and grammar, with an introduction to language history and Greek and Roman culture. Credit will be granted for only one of CLST 105 or AMNE 151. | In Person Learning | Arranged | Arranged

AMNE_V 151-001 | AMNE_V | 151 | D01 | Greek and Roman Mythology | W1 | Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151. | In Person Learning | Mon Wed | 11:00 a.m. - 12:00 p.m.

AMNE_V 151-002 | AMNE_V | 151 | D02 | Greek and Roman Mythology | W2 | Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151. | In Person Learning | Mon Wed | 10:00 a.m. - 11:00 a.m.

AMNE_V 151-003 | AMNE_V | 151 | D03 | Greek and Roman Mythology | W2 | Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151. | Online Learning | Arranged | Arranged

AMNE_V 151-004 | AMNE_V | 151 | D04 | Greek and Roman Mythology | W2 | Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151. | In Person Learning | Fri | 11:00 a.m. - 12:00 p.m.

AMNE_V 151-005 | AMNE_V | 151 | D05 | Greek and Roman Mythology | W2 | Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151. | In Person Learning | Fri | 12:00 p.m. - 1:00 p.m.

AMNE_V 151-006 | AMNE_V | 151 | D06 | Greek and Roman Mythology | W2 | Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151. | In Person Learning | Fri | 12:00 p.m. - 1:00 p.m.

AMNE_V 151-007 | AMNE_V | 151 | D07 | Greek and Roman Mythology | W2 | Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151. | In Person Learning | Fri | 11:00 a.m. - 12:00 p.m.

AMNE_V 151-008 | AMNE_V | 151 | D08 | Greek and Roman Mythology | W2 | Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151. | In Person Learning | Fri | 1:00 p.m. - 2:00 p.m.

AMNE_V 151-009 | AMNE_V | 151 | D09 | Greek and Roman Mythology | W2 | Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151. | In Person Learning | Fri | 2:00 p.m. - 3:00 p.m.

AMNE_V 151-010 | AMNE_V | 151 | D10 | Greek and Roman Mythology | W2 | Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151. | In Person Learning | Fri | 3:00 p.m. - 4:00 p.m.

AMNE_V 151-011 | AMNE_V | 151 | D11 | Greek and Roman Mythology | W2 | Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151. | In Person Learning | Fri | 10:00 a.m. - 11:00 a.m.

AMNE_V 151-012 | AMNE_V | 151 | D12 | Greek and Roman Mythology | W2 | Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151. | In Person Learning | Fri | 11:00 a.m. - 12:00 p.m.

AMNE_V 151-013 | AMNE_V | 151 | D13 | Greek and Roman Mythology | W2 | Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151. | In Person Learning | Fri | 12:00 p.m. - 1:00 p.m.

AMNE_V 151-014 | AMNE_V | 151 | D14 | Greek and Roman Mythology | W2 | Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151. | In Person Learning | Fri | 11:00 a.m. - 12:00 p.m.

AMNE_V 151-015 | AMNE_V | 151 | D15 | Greek and Roman Mythology | W2 | Greek and Roman mythology and its interpretation. Emphasis on ancient texts read in English translation. Credit will be granted for only one of CLST 105 or AMNE 151. | In Person Learning | Fri | 9:00 a.m. - 10:00 a.m.
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<td>AMNE_V 215-001</td>
<td>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.</td>
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<td>12:00 p.m. - 1:00 p.m.</td>
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<td>AMNE_V 215-017</td>
<td>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.</td>
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<td>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.</td>
<td>Online Learning</td>
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<td>AMNE_V 151-D22</td>
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<td>AMNE_V 151-D17</td>
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Amne_V 225-001  Amne_V 225 001  Gladiators, Games, and Spectacle in the Greek and Roman World  W2  History, development, and social function of various forms of spectacle in ancient Greece and Rome, from the Olympic games to the Roman arena. Credit will be granted for only one of CLST 260 or AMNE 225.
In Person Learning  Micro Web F1  11:00 a.m. - 12:00 p.m.

Amne_V 235-001  Amne_V 235 001  Greek Philosophy I  W1  The Pre-Socratics; Socrates; Sophists. Recommended as preparation for AMNE 236/PHIL 214 and PHIL 101. Credit will be granted for only one of CLST 211, AMNE 235 or PHIL 211. Equivalency: PHIL211.
In Person Learning  Micro Web F1  1:00 p.m. - 2:00 p.m.

Amne_V 251-001  Amne_V 251 001  Near Eastern and Biblical Mythology  W1  An introduction to the world of Near Eastern mythology, from the Gilgamesh Epic to the Book of Genesis and beyond. Credit will be granted for only one of RELG 201 or AMNE 251.
In Person Learning  Micro Web F1  2:00 p.m. - 3:00 p.m.

Amne_V 251-002  Amne_V 251 002  Near Eastern and Biblical Mythology  W2  An introduction to the world of Near Eastern mythology, from the Gilgamesh Epic to the Book of Genesis and beyond. Credit will be granted for only one of RELG 201 or AMNE 251.
In Person Learning  Micro Web F1  12:00 p.m. - 1:00 p.m.

Amne_V 251-003  Amne_V 251 003  Near Eastern and Biblical Mythology  W2  An introduction to the world of Near Eastern mythology, from the Gilgamesh Epic to the Book of Genesis and beyond. Credit will be granted for only one of RELG 201 or AMNE 251.
In Person Learning  Arranged  Arranged

Amne_V 260-001  Amne_V 260 001  Scriptures of the Near East  W1  An introduction to the scriptures of Judaism, Christianity, and Islam. Credit will be granted for only one of RELG 200 or AMNE 260.
In Person Learning  Arranged  Arranged

Amne_V 260-002  Amne_V 260 002  Scriptures of the Near East  W2  An introduction to the scriptures of Judaism, Christianity, and Islam. Credit will be granted for only one of RELG 200 or AMNE 260.
In Person Learning  Arranged  Arranged

Amne_V 262-001  Amne_V 262 001  Introduction to Judaism and Its Texts  W1  What is Judaism? An overview of the key texts that have defined the Jewish religion, from the Hebrew Bible through works of contemporary thinkers. Recommended as a basis for upper-level courses in religious studies. Credit will be granted for only one of RELG 201 or AMNE 262.
In Person Learning  Tue Thu  3:30 p.m. - 5:00 p.m.

Amne_V 265-001  Amne_V 265 001  History of Christianity to 600 CE  W1  An introduction to the history of Christianity from its origins with Jesus through the construction of Charlemagne as Roman Emperor in 800 CE. Credit will be granted for only one of CNRS 207, AMNE 265, or CLST 210.
In Person Learning  Micro Web F1  12:00 p.m. - 1:00 p.m.

Amne_V 278-001  Amne_V 278 001  The Archaeology of Life and Death in the Roman Empire  W1  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, Pirraneides, Second-year standing or higher. AMNE 300 is recommended.
In Person Learning  Micro Web F1  9:00 a.m. - 10:00 a.m.

Amne_V 279-001  Amne_V 279 001  Byzantium: Arts of an Empire  W1  Art, architecture, and material culture of the Byzantine Empire situated in the eastern Mediterranean (c. 300-1453); focus on social and cultural contexts of artistic production, including interactions with neighboring cultures. Credit will be granted for only one of CNRS 206, AMNE 279 or ARTH 216. Equivalency: ARTH103.
In Person Learning  Arranged  Arranged

Amne_V 279-002  Amne_V 279 002  Byzantium: Arts of an Empire  W2  Art, architecture, and material culture of the Byzantine Empire situated in the eastern Mediterranean (c. 300-1453); focus on social and cultural contexts of artistic production, including interactions with neighboring cultures. Credit will be granted for only one of CNRS 206, AMNE 279 or ARTH 216. Equivalency: ARTH103.
In Person Learning  Micro Web F1  2:00 p.m. - 3:30 p.m.

Amne_V 300-001  Amne_V 300 001  Lives and Myths of Antiquity  W1  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, Pirraneides, Second-year standing or higher. AMNE 300 is recommended.
In Person Learning  Micro Web F1  9:00 a.m. - 10:00 a.m.

Amne_V 301-001  Amne_V 301 001  The Technical Terms of Medicine and Biological Science  W1  Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.
Online Learning  Arranged  Arranged

Amne_V 301-002  Amne_V 301 002  The Technical Terms of Medicine and Biological Science  W2  Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.
Online Learning  Arranged  Arranged

Amne_V 301-003  Amne_V 301 003  The Technical Terms of Medicine and Biological Science  W2  Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.
Online Learning  Arranged  Arranged

Amne_V 301-004  Amne_V 301 004  The Technical Terms of Medicine and Biological Science  W2  Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.
Online Learning  Arranged  Arranged

Amne_V 301-008  Amne_V 301 008  The Technical Terms of Medicine and Biological Science  W2  Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.
Online Learning  Arranged  Arranged

Amne_V 301-009  Amne_V 301 009  The Technical Terms of Medicine and Biological Science  W2  Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.
Online Learning  Arranged  Arranged

Amne_V 301-010  Amne_V 301 010  The Technical Terms of Medicine and Biological Science  W2  Acquaints the student with the Greek and Latin elements from which most specialized terms of modern medicine are constructed. Intended primarily for students planning to enter the medical, pharmaceutical, or biological sciences. Credit will be granted for only one of CLST 301 or AMNE 301.
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<td>Women in the Bronze Age, Classical Greek and Hellenistic Cultures</td>
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<td>Women in the Roman World of Republican and Imperial Times</td>
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<td>Sex, Lies, and Violence in the Hebrew Bible</td>
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AMNE_V 369 001 Jesus: Between History and Literature

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

AMNE_V 371 001 Ancient Egypt: The Archaeology of the Land of the Pharaohs

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

AMNE_V 372 001 The Archaeology of Ancient Iraq and Syria: Babylon and Beyond

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

AMNE_V 377 001 Roman Art and Architecture

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

AMNE_V 378 001 The Archaeology of Urbanism

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

AMNE_V 382 001 Introductory Akkadian

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

AMNE_V 394 001 Introduction to Aramaic

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

AMNE_V 440_A 001 Seminar in Ancient Mediterranean and Near Eastern Literature and Ideas

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

AMNE_V 440_A 002 Seminar in Ancient Mediterranean and Near Eastern Literature and Ideas

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

AMNE_V 441_A 001 Literature of Ancient Egypt or the Ancient Near East

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

AMNE_V 461 B 001 Seminar in Biblical Studies

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

AMNE_V 462 C 001 Seminar in Early Judaism

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

AMNE_V 470_A 001 Seminar in Ancient Mediterranean and Near Eastern Archeology

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

AMNE_V 470_B 001 Seminar in Ancient Mediterranean and Near Eastern Archeology

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

AMNE_V 472 001 The Archaeology of Ancient Cyprus

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

AMNE_V 489 001 Honours Essay

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

AMNE_V 500 C 001 Pro Seminar in Ancient Mediterranean: Selected Topics

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

AMNE_V 527 B 001 Topics in Roman History and Culture

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

AMNE_V 540 A 001 Topics in Literature, Art and Society

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

AMNE_V 571 A 001 The Archaeology of Urbanism

This course is not eligible for Credit/D/Fail grading.
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<td>ANAT_V 649-001</td>
<td>Introduction to Cultural Anthropology</td>
<td>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.</td>
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<td>ANAT_V 649-002</td>
<td>Introduction to Cultural Anthropology</td>
<td>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.</td>
<td>3</td>
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<td>ANAT_V 649-003</td>
<td>Introduction to Cultural Anthropology</td>
<td>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.</td>
<td>3</td>
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<td>Introduction to Cultural Anthropology</td>
<td>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.</td>
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<td>Introduction to Cultural Anthropology</td>
<td>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.</td>
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<td>ANAT_V 649-006</td>
<td>Introduction to Cultural Anthropology</td>
<td>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.</td>
<td>3</td>
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**Notes:**
- This course is not eligible for Credit/D/Fail grading.
- The credit value for this course will be determined in consultation with the student prior to the registration.
- Students must be registered in graduate-level studies in Anatomy & Cell Biology.
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**Introduction to Cultural Anthropology**

Basic concepts and methods of anthropology; culture and race; comparative study of social systems, religion, symbolism, art, and other institutions. Examples are drawn from a variety of cultures.

In Person Learning

Fri

11:00 a.m. - 12:00 p.m.
ANTH_V 303-A_001  
ANTH_V 303-B_001  
ANTH_V 303-C_001  
ANTH_V 303-D_001  
ANTH_V 303-E_001  
ANTH_V 303-F_001  
ANTH_V 303-G_001  
ANTH_V 303-H_001  

**ANTH_V 303 - Introduction to Cultural Anthropology**  
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**ANTH_V 303 - Introduction to Cultural Anthropology**  
**ANTH_V 303 - Introduction to Cultural Anthropology**  

Basic concepts and methods of anthropology, culture and society. Comparative study of social systems, religion, symbols, art, and other institutions. Examples are drawn from a variety of cultures.  

**In Person Learning**  
Fri 3:00 p.m. - 4:00 p.m.  

**ANTH_V 303 - Introduction to Cultural Anthropology**  

Basic concepts and methods of anthropology, culture and society. Comparative study of social systems, religion, symbols, art, and other institutions. Examples are drawn from a variety of cultures.  

**In Person Learning**  
Fri 4:00 p.m. - 5:00 p.m.  

**ANTH_V 303 - Introduction to Cultural Anthropology**  

Basic concepts and methods of anthropology, culture and society. Comparative study of social systems, religion, symbols, art, and other institutions. Examples are drawn from a variety of cultures.  

**In Person Learning**  
Fri 5:00 p.m. - 6:00 p.m.  

**ANTH_V 302-B_001**  

Contemporary Social Problems  

Cultural background to contemporary events: Problems of nationalism and regional conflicts, economic and social development, gender, religion and social change. Course may stress a different region of the world in different years.  

**In Person Learning**  
Mon Wed 2:00 p.m. - 3:10 p.m.  

**ANTH_V 302-F_001**  

Contemporary Social Problems  

Cultural background to contemporary events: Problems of nationalism and regional conflicts, economic and social development, gender, religion and social change. Course may stress a different region of the world in different years.  

**In Person Learning**  
Mon Wed 3:00 p.m. - 4:00 p.m.  

**ANTH_V 203-001**  

Anthropology of Drugs  

Illicit and/or licit drugs through historical, political, cultural and societal examples.  

**In Person Learning**  
Tue Thu 11:00 a.m. - 12:30 p.m.  

**ANTH_V 203-002**  

Anthropology of Drugs  

Illicit and/or licit drugs through historical, political, cultural and societal examples.  

**Hybrid Learning**  
Mon Wed 2:00 p.m. - 3:10 p.m.  

**ANTH_V 205-001**  

The Anthropology of Insurrections and Revolution  

Analysis of insurrections and revolutions from a comparative perspective.  

**In Person Learning**  
Tue Thu 11:00 a.m. - 12:30 p.m.  

**ANTH_V 306-001**  

Witches, Vampires, and Zombies: Anthropology of the Supernatural  

Anthropological approaches to supernatural beliefs in both traditional and contemporary societies.  

**In Person Learning**  
Tue Thu 9:30 a.m. - 11:00 a.m.  

**ANTH_V 306-002**  

Witches, Vampires, and Zombies: Anthropology of the Supernatural  

Anthropological approaches to supernatural beliefs in both traditional and contemporary societies.  

**In Person Learning**  
Tue Thu 12:10 p.m. - 2:00 p.m.  

**ANTH_V 210-001**  

Eating Culture  

An anthropological exploration of how the collection, cultivation and consumption of food shapes human society and culture. This course is not eligible for Credit/D/Fail grading.  

**In Person Learning**  
Arranged  

**ANTH_V 213-001**  

Sex, Gender, and Culture  

An anthropological exploration of how understandings of sex and gender are culturally and historically shaped.  

**In Person Learning**  
Arranged  

**ANTH_V 215-001**  

Japanese Popular Culture  

Television shows, dramas, movies, advertising, marketing, manga (Japanese style comics), anime (Japanese animation), theatrical forms, popular literature, popular music, tourism, toys, and sports.  

**In Person Learning**  
Arranged  

**ANTH_V 217-001**  

Culture and Communication  

The study of communication; the relation between communication and its cultural context with emphasis on verbal and non-verbal communication, cross-cultural communication, and cultural differences in the use of oral, literate, and electronic media.  

**In Person Learning**  
Arranged  

**ANTH_V 220-001**  

Contemporary Indigenous Issues in British Columbia  

Anthropological perspectives on contemporary Indigenous issues in British Columbia.  

**In Person Learning**  
Arranged  

**ANTH_V 227-001**  

Introduction to Medical Anthropology  

An examination of health and illness, in their social and cultural contexts.  

**In Person Learning**  
Arranged  

**ANTH_V 240-001**  

Visions of the Sacred: Introduction to the Anthropology of Religion  

Comparative, cross-cultural approach to human engagement with the sacred. Examines religious and complex systems that share certain fundamental common features.  

**In Person Learning**  
Arranged  

**ANTH_V 300-A_001**  

Contemporary Anthropological Theory  

Contemporary approaches to society and culture in anthropology. Prerequisite: ANTH 200 is recommended.  

**In Person Learning**  
Arranged  

**ANTH_V 300-A_002**  

Contemporary Anthropological Theory  

Contemporary approaches to society and culture in anthropology. Prerequisite: ANTH 200 is recommended.  

**In Person Learning**  
Arranged  

**ANTH_V 300-E_001**  

Ethnography of Special Areas  

A specialized study of ethnographic and theoretical problems in one area. Different culture areas or regions may be selected each term. Consult the Department for this year’s offerings.  

**In Person Learning**  
Arranged  

**ANTH_V 300-F_001**  

Ethnography of Special Areas  

A specialized study of ethnographic and theoretical problems in one area. Different culture areas or regions may be selected each term. Consult the Department for this year’s offerings.  

**In Person Learning**  
Arranged  

**ANTH_V 300-G_001**  

Ethnography of Special Areas  

A specialized study of ethnographic and theoretical problems in one area. Different culture areas or regions may be selected each term. Consult the Department for this year’s offerings.  

**In Person Learning**  
Arranged  

**ANTH_V 300-H_001**  

Ethnography of Special Areas  

A specialized study of ethnographic and theoretical problems in one area. Different culture areas or regions may be selected each term. Consult the Department for this year’s offerings.  

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<td>Ethnography of Special Areas</td>
<td>W2</td>
<td>1</td>
<td>A specialized study of ethnographic and theoretical problems in one area. Different culture areas or regions may be selected each term. Consult the Department for this year's offerings. In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.</td>
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<td>Linguistic Anthropology</td>
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<td>A survey of the ethnographic uses of language data and the techniques of linguistic analysis. In Person Learning Mon Wed Fri 11:00 a.m. - 12:30 p.m.</td>
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<td>Ethnography of Latin America</td>
<td>W1</td>
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<td>Ethnographic perspectives on contemporary issues of public policy, law, and political activity, as they affect Indigenous Peoples in Canada and globally. Prerequisite: ANTH 220 is recommended. In Person Learning Mon Wed 12:30 p.m. - 2:00 p.m.</td>
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<td>Anthropology of Media</td>
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<td>Analysis of contemporary mass media and of the anthropological use of media (photography, film, digital audio and video, etc.). Hybrid Learning Mon Wed Fri 2:00 p.m. - 3:00 p.m.</td>
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<td>History of Anthropology</td>
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<td>The development of anthropological theory and practice in institutional contexts. In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.</td>
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<td>History of Anthropology</td>
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<td>The development of anthropological theory and practice in institutional contexts. In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.</td>
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<td>Ethnography in Circumpolar North: Comparative Perspectives</td>
<td>W1</td>
<td>1</td>
<td>An examination of relationships between indigenous people and nation states in Greenland, Canada, Alaska and Siberia, using ethnographic methods. In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ANTH 407-A_001</td>
<td>Principles of Field Work</td>
<td>W2</td>
<td>1</td>
<td>Principles of Field Work is 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.</td>
</tr>
<tr>
<td>ANTH 416-A_001</td>
<td>Anthropology of Globalization</td>
<td>W2</td>
<td>2</td>
<td>Comparative study of religious beliefs, practices, and movements; religion in contemporary world society; topics in religious studies and postcolonial theory. In Person Learning Mon Wed 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>ANTH 415-A_001</td>
<td>Religion and Society</td>
<td>W1</td>
<td>1</td>
<td>Anthropological analysis of religious contexts and religious practices. In Person Learning Arranged</td>
</tr>
<tr>
<td>ANTH 400-A_001</td>
<td>Anthropological Statistics</td>
<td>W1</td>
<td>1</td>
<td>Applications of statistical techniques to quantitative and qualitative data in Anthropology. In Person Learning Mon Wed 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>ANTH 401-A_001</td>
<td>Anthropology of Place and Space</td>
<td>W1</td>
<td>1</td>
<td>An anthropological understanding of the spatial dimensions of social practice, and the relationships of space to culture, history, and power. In Person Learning Arranged</td>
</tr>
<tr>
<td>ANTH 427-A_001</td>
<td>Topics in Medical Anthropology</td>
<td>W1</td>
<td>1</td>
<td>Includes examination of the social and cultural dimensions of specific life-threatening emerging and re-emerging infectious diseases, the political economy of health, cultural interpretations of illness and healing, medical pluralism, therapy management, and the cultural construction of efficacy. In Person Learning Arranged</td>
</tr>
<tr>
<td>ANTH 408-A_001</td>
<td>Global Health in Cross-Cultural Contexts</td>
<td>W1</td>
<td>1</td>
<td>Global Health in Cross-Cultural Contexts. In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ANTH 411-A_001</td>
<td>Museum Practice and Curation</td>
<td>W1-2</td>
<td>1</td>
<td>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 Mon Wed 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ANTH 428-A_001</td>
<td>Directed Studies</td>
<td>W1</td>
<td>1</td>
<td>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</td>
</tr>
<tr>
<td>ANTH 429-A_001</td>
<td>Contemporary Indigenous Issues in a Global Perspective</td>
<td>W1</td>
<td>1</td>
<td>A specialized study of ethnographic and theoretical problems in one area. Different culture areas or regions may be selected each term. Consult the Department for this year's offerings. In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>ANTH 430-A_001</td>
<td>Ethnography of Sub-Saharan Africa</td>
<td>W1</td>
<td>1</td>
<td>An examination of ethnographic, topical, and theoretical issues. In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>ANTH 431-A_001</td>
<td>Museum Practice and Curation</td>
<td>W1-2</td>
<td>1</td>
<td>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 Mon Wed 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ANTH 430-A_001</td>
<td>Directed Studies</td>
<td>W1</td>
<td>1</td>
<td>General reading and/or a research undertaking, with the agreement and under the supervision of a Department faculty member selected by the student. No more than six credits of Directed Studies may be taken for credit toward the Major or Honours program. In Person Learning Arranged Arranged</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Description</td>
<td>Hours</td>
<td>Days</td>
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<tr>
<td>ANTH 516</td>
<td>Anthropological Study of Local Ecological Knowledge</td>
<td>Analysis of the concepts of ecological anthropology via the medium of local ecological knowledge.</td>
<td>W2</td>
<td>Mon</td>
</tr>
<tr>
<td>ANTH 517</td>
<td>Gardens of Culture: The Anthropology of Food Systems</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
<td>W2</td>
<td>Thu</td>
</tr>
<tr>
<td>ANTH 518</td>
<td>Directed Studies</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
<td>W2</td>
<td>Thu</td>
</tr>
<tr>
<td>ANTH 520</td>
<td>History of Anthropological Thought</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
<td>W2</td>
<td>Thu</td>
</tr>
<tr>
<td>ANTH 521</td>
<td>Language and Culture</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
<td>W2</td>
<td>Thu</td>
</tr>
<tr>
<td>ANTH 522</td>
<td>Archaeological Methods</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
<td>W2</td>
<td>Thu</td>
</tr>
<tr>
<td>ANTH 523</td>
<td>Current Research in Anthropology</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
<td>W2</td>
<td>Thu</td>
</tr>
<tr>
<td>ANTH 524</td>
<td>Qualitative Methods in Anthropology</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
<td>W2</td>
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<tr>
<td>ANTH 525</td>
<td>Quantitative Methods in Anthropology</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
<td>W2</td>
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<tr>
<td>ANTH 526</td>
<td>Research Methods in Anthropology</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
<td>W2</td>
<td>Thu</td>
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<tr>
<td>ANTH 527</td>
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<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
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<tr>
<td>ANTH 528</td>
<td>Directed Studies</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
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<tr>
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<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
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<td>Thu</td>
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<tr>
<td>ANTH 530</td>
<td>Directed Studies</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
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<tr>
<td>ANTH 531</td>
<td>Directed Studies</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
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<tr>
<td>ANTH 532</td>
<td>Directed Studies</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
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</tr>
<tr>
<td>ANTH 533</td>
<td>Directed Studies</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
<td>W2</td>
<td>Thu</td>
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<tr>
<td>ANTH 534</td>
<td>Directed Studies</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
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<td>Thu</td>
</tr>
<tr>
<td>ANTH 535</td>
<td>Directed Studies</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
<td>W2</td>
<td>Thu</td>
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<tr>
<td>ANTH 536</td>
<td>Directed Studies</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
<td>W2</td>
<td>Thu</td>
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<tr>
<td>ANTH 537</td>
<td>Directed Studies</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
<td>W2</td>
<td>Thu</td>
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<tr>
<td>ANTH 538</td>
<td>Directed Studies</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
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<td>Thu</td>
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<tr>
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<td>Thu</td>
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<tr>
<td>ANTH 540</td>
<td>Directed Studies</td>
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<td>W2</td>
<td>Thu</td>
</tr>
<tr>
<td>ANTH 541</td>
<td>Directed Studies</td>
<td>A discussion of selected methods used to observe, describe, and interpret cultural phenomena and social organization, including participant observation, interviews, ethnographic semantics, life histories, componental analysis, and photography. Attention will also be given to ethics in anthropological research and writing and to such analytic matters as the nature of description, conceptualization, generalization, and content analysis.</td>
<td>W2</td>
<td>Thu</td>
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<tr>
<td>Code</td>
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<td>CRN</td>
<td>Days</td>
<td>Time</td>
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<tr>
<td>ANTH_V 540-F</td>
<td>001</td>
<td>540</td>
<td>Mon Wed Fri</td>
<td>1:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ANTH_V 540-G</td>
<td>003</td>
<td>540</td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>ANTH_V 540-H</td>
<td>001</td>
<td>540</td>
<td>Mon Wed Fri</td>
<td>3:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ANTH_V 545-A</td>
<td>001</td>
<td>545</td>
<td>Mon Wed Fri</td>
<td>1:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>ANTH_V 545-B</td>
<td>001</td>
<td>545</td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>ANTH_V 545-B</td>
<td>002</td>
<td>545</td>
<td>Mon Wed Fri</td>
<td>3:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>ANTH_V 548-A</td>
<td>001</td>
<td>548</td>
<td>Mon Wed Fri</td>
<td>1:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>ANTH_V 548-B</td>
<td>001</td>
<td>548</td>
<td>Mon Wed Fri</td>
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<tr>
<td>ANTH_V 548-B</td>
<td>002</td>
<td>548</td>
<td>Mon Wed Fri</td>
<td>3:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ANTH_V 549-A</td>
<td>001</td>
<td>549</td>
<td>Mon Wed Fri</td>
<td>1:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>ANTH_V 549-B</td>
<td>001</td>
<td>549</td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>ANTH_V 549-B</td>
<td>002</td>
<td>549</td>
<td>Mon Wed Fri</td>
<td>3:00 p.m. - 5:00 p.m.</td>
</tr>
</tbody>
</table>

There are no prerequisites for this course. 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]
<table>
<thead>
<tr>
<th>Code</th>
<th>CRN</th>
<th>Section</th>
<th>Title</th>
<th>Credits</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Notes</th>
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<tbody>
<tr>
<td>APBI_V</td>
<td>200</td>
<td>L08</td>
<td>Introduction to Soil Science</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>APBI_V</td>
<td>200</td>
<td>L09</td>
<td>Introduction to Soil Science</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>APBI_V</td>
<td>200</td>
<td>L10</td>
<td>Introduction to Soil Science</td>
<td>3</td>
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<td>Tue</td>
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<td>APBI_V</td>
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<td>PR1</td>
<td>Introduction to Soil Science</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>APBI_V</td>
<td>200</td>
<td>PR2</td>
<td>Introduction to Soil Science</td>
<td>3</td>
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<td>Tue</td>
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<td>Wed</td>
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<td>APBI_V</td>
<td>200</td>
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<td>3</td>
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<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
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<td>Introduction to Soil Science</td>
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<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>VASC</td>
<td>210</td>
<td>B01</td>
<td>Vascular Plants</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>VASC</td>
<td>210</td>
<td>L01</td>
<td>Vascular Plants</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>VASC</td>
<td>210</td>
<td>L02</td>
<td>Vascular Plants</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
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<td>210</td>
<td>L03</td>
<td>Vascular Plants</td>
<td>3</td>
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<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
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<td>210</td>
<td>L05</td>
<td>Vascular Plants</td>
<td>3</td>
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<td>Tue</td>
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<tr>
<td>VASC</td>
<td>210</td>
<td>L06</td>
<td>Vascular Plants</td>
<td>3</td>
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<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>VASC</td>
<td>210</td>
<td>L08</td>
<td>Vascular Plants</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>APR22</td>
<td>210</td>
<td>B01</td>
<td>Animal Sheltering and Companion Animal Support Services</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>APR22</td>
<td>210</td>
<td>L02</td>
<td>Animal Sheltering and Companion Animal Support Services</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>ATMOS</td>
<td>244</td>
<td>B01</td>
<td>Atmospheric Environments</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>ATMOS</td>
<td>244</td>
<td>L01</td>
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<tr>
<td>ATMOS</td>
<td>244</td>
<td>L02</td>
<td>Atmospheric Environments</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>ATMOS</td>
<td>244</td>
<td>L03</td>
<td>Atmospheric Environments</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>ATMOS</td>
<td>244</td>
<td>L04</td>
<td>Atmospheric Environments</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>ATMOS</td>
<td>244</td>
<td>L05</td>
<td>Atmospheric Environments</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>ATMOS</td>
<td>244</td>
<td>L06</td>
<td>Atmospheric Environments</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
<tr>
<td>ATMOS</td>
<td>260</td>
<td>B01</td>
<td>Agroecology I: Introduction to principles and techniques</td>
<td>3</td>
<td>9:30 a.m. - 12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Wed</td>
</tr>
</tbody>
</table>

**Notes:**
- APBI_V 220-001: Atmospheric Environments, 10:00 a.m. - 12:00 p.m., In Person Learning, Wed.
- APBI_V 244-L06, APBI_V 244-L03, APBI_V 244-L02, APBI_V 210-L05, APBI_V 210-L02, APBI_V 210-001, APBI_V 200-PR4, APBI_V 200-PR2, APBI_V 200-PR1, APBI_V 200-L09.
- VASC (OR GEOB) 200: Introduction to Soil Science, 2-5 credits, Given for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200.
- ATMOS (OR GEOB) 200: Atmospheric Environments, 3-2 credits, Given for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200.
- VASC (OR GEOB) 200: Atmospheric Environments, 3-2 credits, Given for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200.
- VASC (OR GEOB) 200: Atmospheric Environments, 3-2 credits, Given for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200.
- VASC (OR GEOB) 200: Atmospheric Environments, 3-2 credits, Given for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200.
- VASC (OR GEOB) 200: Atmospheric Environments, 3-2 credits, Given for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200.
- VASC (OR GEOB) 200: Atmospheric Environments, 3-2 credits, Given for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200.
- VASC (OR GEOB) 200: Atmospheric Environments, 3-2 credits, Given for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200.
- VASC (OR GEOB) 200: Atmospheric Environments, 3-2 credits, Given for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200.
- VASC (OR GEOB) 200: Atmospheric Environments, 3-2 credits, Given for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200.
- VASC (OR GEOB) 200: Atmospheric Environments, 3-2 credits, Given for only one of GEOS (or GEOB) 200, GEOS (or GEOB) 204 or APBI 244. Equivalency: GEOS (OR GEOB) 200.
APBI_V 260-001  APBI_V 260  D01  Agronomy I: Introduction to principles and techniques  W1  Basic ecological approaches for understanding and managing agricultural production and food systems. Includes hands-on field data collection, data analysis, and problem-based discussions.  In Person Learning  Mon  1:00 p.m. - 4:00 p.m.

APBI_V 260-011  APBI_V 260  T01  Agronomy I: Introduction to principles and techniques  W1  Basic ecological approaches for understanding and managing agricultural production and food systems. Includes hands-on field data collection, data analysis, and problem-based discussions.  In Person Learning  Wed  1:00 p.m. - 4:00 p.m.

APBI_V 265-001  APBI_V 265  D01  Sustainable Agriculture and Food Systems  W2  Principles and practices necessary to understand practical concerns of sustainable food systems. Students who already present credit for APBI 260 are not permitted to receive credit for APBI 265. [1-3-0]  In Person Learning  Wed  1:00 p.m. - 4:00 p.m.

APBI_V 290-001  APBI_V 290  D01  Introductory Topics in Applied Biology  W1  Analysis and interpretation of current issues in applied biology. Topics will vary from year to year.  Hybrid Learning  Tue Thu  11:00 a.m. - 12:30 p.m.

APBI_V 290-002  APBI_V 290  T02  Introductory Topics in Applied Biology  W1  Analysis and interpretation of current issues in applied biology. Topics will vary from year to year.  In Person Learning  Tue Thu  9:30 a.m. - 11:00 a.m.

APBI_V 311-001  APBI_V 311  D01  Comparative Entomology, Respiratory and Osmoregulatory Physiology  W2  Comparative : respiratory and osmoregulatory physiology of arthropods. Prerequisite: BIOL 264 and one of BIOS 264, BIOL 265. 3rd year standing. Equivalency: BIOL 324  In Person Learning  Mon Wed Fri  11:00 a.m. - 12:30 p.m.

APBI_V 312-001  APBI_V 312  D01  Reproductive and Digestive Physiology  W1  Reproductive and digestive physiology, and current technologies applied to these systems in domestic and wild animals. Prerequisite: One of BIOS 264, BIOL 265. 3rd year standing.  In Person Learning  Tue Thu  12:30 p.m. - 2:00 p.m.

APBI_V 313-001  APBI_V 313  D01  Experimental Analysis of Animal Behaviour  W1  Case studies will be used to discover how behavioral principles explain complexity in the behaviour of individual animals and contribute to our understanding of animal welfare. Prerequisite: Third-year standing or higher. One of PSYC 100, PSYC 101 or PSYC 102 recommended.  In Person Learning  Tue Thu  9:30 a.m. - 11:00 a.m.

APBI_V 314-001  APBI_V 314  D01  Animals and Society  W1  Animals and Society  In Person Learning  Arranged Arranged

APBI_V 315-001  APBI_V 315  D01  Domestic and Wild 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, ARID 315, or ARAB 315. [1-0-3] Prerequisite: At least third-year standing in any faculty.  In Person Learning  Tue Thu  12:30 p.m. - 2:00 p.m.

APBI_V 316-001  APBI_V 316  D01  Equine Biology, Health and Welfare  W2  Anatomy, physiology, reproduction, nutrition of the horse; common disease pathology, prevention and treatments; equine behaviour. Prerequisite: BIOL 260. 3rd year standing or higher. One of PSYC 100, PSYC 101 or PSYC 102 recommended.  In Person Learning  Mon Wed Fri  4:00 p.m. - 5:30 p.m.

APBI_V 317-002  APBI_V 317  D02  Welfare and Ethics of using Animals in Science  W2  Historical and current debate, ethical perspectives, governance, and scientific understanding of experiences of animals in research.  Online Learning  Tue Thu  12:30 p.m. - 2:00 p.m.

APBI_V 318-001  APBI_V 318  D01  Applied Plant Breeding  W1  Interactions between agriculture and the environment. Current issues, comparison of systems, species, production methods, environments, and socioeconomics. Prerequisite: One of BIOS 264, APBI 260, APBI 265, COM 210, ENVR 260, and third-year standing.  In Person Learning  Tue Thu  11:00 a.m. - 12:30 p.m.

APBI_V 319-001  APBI_V 319  D01  Aquaculture and the Environment  W1  Introduction to seed plant taxonomy emphasizing descriptive morphology and identification. Each student will be required to submit a plant collection. [1-3-0] Prerequisite: BIOS 121. Equivalency: BIOS 124  In Person Learning  Tue Thu  2:00 p.m. - 3:30 p.m.

APBI_V 324-001  APBI_V 324  D01  Introduction to Seed Plant Taxonomy  W1  Introduction to seed plant taxonomy emphasizing descriptive morphology and identification. Each student will be required to submit a plant collection. [1-3-0] Prerequisite: BIOS 121. Equivalency: BIOS 124  In Person Learning  Tue Thu  10:00 a.m. - 11:30 a.m.

APBI_V 324-101  APBI_V 324  T01  Introduction to Seed Plant Taxonomy  W1  Introduction to seed plant taxonomy emphasizing descriptive morphology and identification. Each student will be required to submit a plant collection. [1-3-0] Prerequisite: BIOS 121. Equivalency: BIOS 124  In Person Learning  Wed  2:00 p.m. - 5:00 p.m.

APBI_V 324-102  APBI_V 324  T02  Introduction to Seed Plant Taxonomy  W1  Introduction to seed plant taxonomy emphasizing descriptive morphology and identification. Each student will be required to submit a plant collection. [1-3-0] Prerequisite: BIOS 121. Equivalency: BIOS 124  In Person Learning  Thu  2:00 p.m. - 5:00 p.m.

APBI_V 327-001  APBI_V 327  D01  Introduction to Entomology  W1  A survey of the structure, classification and biology of insects, ecology and life-histories of insects, insect-plant relations. [2-3-0] Prerequisite: BIOS 121. Equivalency: BIOS 127  Hybrid Learning  Tue Thu  8:00 a.m. - 9:30 a.m.

APBI_V 327-101  APBI_V 327  T01  Introduction to Entomology  W1  A survey of the structure, classification and biology of insects, ecology and life-histories of insects, insect-plant relations. [2-3-0] Prerequisite: BIOS 121. Equivalency: BIOS 127  In Person Learning  Thu  9:00 a.m. - 12:00 a.m.

APBI_V 327-102  APBI_V 327  T02  Introduction to Entomology  W1  A survey of the structure, classification and biology of insects, ecology and life-histories of insects, insect-plant relations. [2-3-0] Prerequisite: BIOS 121. Equivalency: BIOS 127  In Person Learning  Thu  9:00 a.m. - 12:00 a.m.

APBI_V 327-103  APBI_V 327  T03  Introduction to Entomology  W1  A survey of the structure, classification and biology of insects, ecology and life-histories of insects, insect-plant relations. [2-3-0] Prerequisite: BIOS 121. Equivalency: BIOS 127  In Person Learning  Thu  1:30 p.m. - 3:30 p.m.
A survey of the structure, classification and biology of insects; ecology and life histories of insects; insect-plant interactions. [2-0-0] Prerequisite: BIOL 121. Equivalency: BIOL317

In Person Learning Thu 1:30 p.m. - 3:10 p.m.

Agricultural impacts of soil organisms (bacteria, protozoa, fungi, animals, plants) in natural and managed ecosystems; roles in primary production, nutrient cycling, decomposition and mineralization; interactions between soil organisms; responses to environmental change. [3-1-0] Prerequisite: BIOL 201 and one of APBI 311, CAPS 301.

In Person Learning Wed Thu 1:30 p.m. - 3:10 p.m.

Field and laboratory analytical techniques in the chemical, biological and physical assessment of soils. Credit will be granted for only one of GSS 502 or APBI 402. [1-0-3] Prerequisite: APBI 200.

In Person Learning Fri 1:00 p.m. - 3:00 p.m.

Plant water requirements for production and survival, physiological stress thresholds, soil-plant interactions, 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: APBI 200 and either (a) CHEM 123 or (b) all of CHEM 111, CHEM 113. CHEM 233 is recommended. Equivalency: BIOL351, FRST311

In Person Learning Wed Thu 10:00 a.m. - 11:00 a.m.

A variety of ecological processes shape agricultural landscapes. Students will learn the research foundations of applied ecology in agriculture and how to read and critique the scientific literature in this field. Prerequisite: One of BIO 131, BIO 132, APBI 145. Equivalency: FRST310

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

Introduces methods including research design, scientific critique, writing proposals and reports, and oral presentation. Prerequisite: Third-year standing in the Applied Biology program or permission of the instructor.

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

The diversity of soil organisms (bacteria, protozoa, fungi, animals, plants) in natural and managed ecosystems; roles in primary production, nutrient cycling, decomposition and mineralization; interactions between soil organisms; responses to environmental change. [3-1-0] Prerequisite: BIOL 201 and one of APBI 311, CAPS 301.

In Person Learning Thu 10:00 a.m. - 12:00 p.m.

A survey of the structure, classification and biology of insects; ecology and life histories of insects; insect-plant interactions. [2-0-0] Prerequisite: BIOL 121. Equivalency: BIOL317

In Person Learning Thu 10:00 a.m. - 11:30 a.m.

A detailed exploration of biophysical, economic, and social ecosystem sustainability indicators for primary production subsystems. [3-0-2] Equivalency: BIOL317

Online Learning Arranged Arranged

The diversity of soil organisms (bacteria, protozoa, fungi, animals, plants) in natural and managed ecosystems; roles in primary production, nutrient cycling, decomposition and mineralization; interactions between soil organisms; responses to environmental change. [3-1-0] Prerequisite: BIOL 201 and one of APBI 311, CAPS 301.

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

The diversity of soil organisms (bacteria, protozoa, fungi, animals, plants) in natural and managed ecosystems; roles in primary production, nutrient cycling, decomposition and mineralization; interactions between soil organisms; responses to environmental change. [3-1-0] Prerequisite: BIOL 201 and one of APBI 311, CAPS 301.

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

The diversity of soil organisms (bacteria, protozoa, fungi, animals, plants) in natural and managed ecosystems; roles in primary production, nutrient cycling, decomposition and mineralization; interactions between soil organisms; responses to environmental change. [3-1-0] Prerequisite: BIOL 201 and one of APBI 311, CAPS 301.

In Person Learning Tue 10:00 a.m. - 11:00 a.m.
APBI V 496 A A_002 Applied Animal Biology Practicum W2 Application of principles and concepts of Applied Animal Biology to experiential learning in the fields of wild, companion, lab, and farm animal welfare and management. Prerequisite: Third-year standing or higher. APBI 314 and/or APBI 315 are recommended. The credit value for this course will be determined in consultation with the student prior to the registration.

APBI V 496 B B_001 Applied Animal Biology Practicum W1 Application of principles and concepts of Applied Animal Biology to experiential learning in the fields of wild, companion, lab, and farm animal welfare and management. Prerequisite: Third-year standing or higher. APBI 314 and/or APBI 315 are recommended. The credit value for this course will be determined in consultation with the student prior to the registration.

APBI V 496 B B_002 Applied Animal Biology Practicum W2 Application of principles and concepts of Applied Animal Biology to experiential learning in the fields of wild, companion, lab, and farm animal welfare and management. Prerequisite: Third-year standing or higher. APBI 314 and/or APBI 315 are recommended. The credit value for this course will be determined in consultation with the student prior to the registration.

APBI V 497 A A_001 Directed Studies W1 Prerequisite: Approval of program advisor. In Person Learning Arranged Arranged

APBI V 497 A A_002 Directed Studies W2 Prerequisite: Approval of program advisor. In Person Learning Arranged Arranged

APBI V 497 B B_001 Directed Studies W1 Prerequisite: Approval of program advisor. In Person Learning Arranged Arranged

APBI V 497 B B_002 Directed Studies W2 Prerequisite: Approval of program advisor. In Person Learning Arranged Arranged

APPI V 502 C C_001 Directed Studies W1 Prerequisite: Approval of program advisor. In Person Learning Arranged Arranged

APPI V 502 C C_002 Directed Studies W2 Prerequisite: Approval of program advisor. In Person Learning Arranged Arranged

APPI V 502 D D_001 Directed Studies W1 Prerequisite: Approval of program advisor. In Person Learning Arranged Arranged

APPI V 502 D D_002 Directed Studies W2 Prerequisite: Approval of program advisor. In Person Learning Arranged Arranged

APPI V 507 E E_101 Directed Studies W1 Prerequisite: Approval of program advisor. In Person Learning Arranged Arranged

APPI V 507 E E_102 Directed Studies W2 Prerequisite: Approval of program advisor. In Person Learning Arranged Arranged

APPI V 598 101 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

APPI V 598 102 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

APPI V 599 101 Undergraduate Thesis W1 Design and execution of an experimental/analytical research project leading to the preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year. In Person Learning Arranged Arranged

APPI V 599 102 Undergraduate Thesis W2 Design and execution of an experimental/analytical research project leading to the preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year. In Person Learning Arranged Arranged

APPI V 599-101 APPI V 496 101 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

APPI V 599-102 APPI V 496 102 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

APPI V 599-101 APPI V 499 101 Undergraduate Thesis W1 Design and execution of an experimental/analytical research project leading to the preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year. In Person Learning Arranged Arranged

APPI V 599-102 APPI V 499 102 Undergraduate Thesis W2 Design and execution of an experimental/analytical research project leading to the preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year. In Person Learning Arranged Arranged

APPI V 501 101 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; case 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.

APPI V 502 101 Sustainability and Leadership W1 Skills for leading change that influences triple-bottom-line, sustainability, change agency systems thinking; awareness and perspective for engagement and communication; adaptive leadership; change dynamics; case 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.

APPI V 502 102 Sustainability and Leadership W1 Skills for leading change that influences triple-bottom-line, sustainability, change agency systems thinking; awareness and perspective for engagement and communication; adaptive leadership; change dynamics; case 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.
**APPP_V 500-101**
**APPP_V 500-103**
**Organizational Leadership**

Behaviour of people and groups and its application to management and leadership within professional organizations; motivation, group dynamics, and organizational structure; leadership styles and effectiveness; assessing organizational effectiveness. Collaboratively delivered with the Faculty of Commerce and Business Administration. This course is not eligible for Credit/D/Fail grading.

In-Person Learning  
Mon Wed  
4:00 p.m. - 6:00 p.m.

**APPP_V 505-101**
**Analytics and Interpretation for Applied Sciences**

In-Person Learning  
Mon Wed  
10:00 a.m. - 12:00 p.m.

**APPP_V 506-C_101**
**C_101**
**Capstone Project**

A capstone project designed to give students experience in leading complex multidisciplinary projects relevant to their professional specialization. Collaboratively delivered with the Faculty of Commerce and Business Administration. This course is not eligible for Credit/D/Fail grading.

In-Person Learning  
Arranged  
Arranged

**APPP_V 506-C_100**
**C_103**
**Capstone Project**

In-Person Learning  
Arranged  
Arranged

**APSC_V 100-101**
**101**
**Introduction to Engineering I**

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.

In-Person Learning  
Mon Fri  
8:00 a.m. - 9:00 a.m.

**APSC_V 100-102**
**102**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
9:00 a.m. - 10:00 a.m.

**APSC_V 100-103**
**103**
**Introduction to Engineering I**

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

**APSC_V 100-104**
**104**
**Introduction to Engineering I**

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

**APSC_V 100-106**
**106**
**Introduction to Engineering I**

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

**APSC_V 100-108**
**108**
**Introduction to Engineering I**

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

**APSC_V 100-110**
**110**
**Introduction to Engineering I**

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

**APSC_V 100-112**
**112**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
3:00 p.m. - 4:00 p.m.

**APSC_V 100-114**
**114**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
4:00 p.m. - 5:00 p.m.

**APSC_V 100-116**
**116**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
5:00 p.m. - 6:00 p.m.

**APSC_V 100-118**
**118**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
6:00 p.m. - 7:00 p.m.

**APSC_V 100-120**
**120**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
7:00 p.m. - 8:00 p.m.

**APSC_V 100-122**
**122**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
8:00 p.m. - 9:00 p.m.

**APSC_V 100-124**
**124**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
9:00 p.m. - 10:00 p.m.

**APSC_V 100-126**
**126**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
10:00 p.m. - 11:00 p.m.

**APSC_V 100-128**
**128**
**Introduction to Engineering I**

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

**APSC_V 100-130**
**130**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
12:00 a.m. - 1:00 a.m.

**APSC_V 100-132**
**132**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
1:00 a.m. - 2:00 a.m.

**APSC_V 100-134**
**134**
**Introduction to Engineering I**

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

**APSC_V 100-136**
**136**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
3:00 a.m. - 4:00 a.m.

**APSC_V 100-138**
**138**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
4:00 a.m. - 5:00 a.m.

**APSC_V 100-140**
**140**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
5:00 a.m. - 6:00 a.m.

**APSC_V 100-142**
**142**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
6:00 a.m. - 7:00 a.m.

**APSC_V 100-144**
**144**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
7:00 a.m. - 8:00 a.m.

**APSC_V 100-146**
**146**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
8:00 a.m. - 9:00 a.m.

**APSC_V 100-148**
**148**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
9:00 a.m. - 10:00 a.m.

**APSC_V 100-150**
**150**
**Introduction to Engineering I**

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

**APSC_V 100-152**
**152**
**Introduction to Engineering I**

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

**APSC_V 100-154**
**154**
**Introduction to Engineering I**

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

**APSC_V 100-156**
**156**
**Introduction to Engineering I**

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

**APSC_V 100-158**
**158**
**Introduction to Engineering I**

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

**APSC_V 100-160**
**160**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
3:00 p.m. - 4:00 p.m.

**APSC_V 100-162**
**162**
**Introduction to Engineering I**

In-Person Learning  
Mon Fri  
4:00 p.m. - 5:00 p.m.
| APSC_V 100-L1U | APSC_V 100-L1J | Introduction to Engineering I | W1 | An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0] | In-Person Learning | Fri | 8:00 a.m. - 10:00 a.m. |
| APSC_V 100-L1K | APSC_V 100-L1X | Introduction to Engineering I | W1 | An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0] | In-Person Learning | Tue | 12:00 p.m. - 2:00 p.m. |
| APSC_V 100-L1L | APSC_V 100-L1L | Introduction to Engineering I | W1 | An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0] | In-Person Learning | Wed | 4:00 p.m. - 6:00 p.m. |
| APSC_V 100-L1M | APSC_V 100-L1M | Introduction to Engineering I | W1 | An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0] | In-Person Learning | Wed | 2:00 p.m. - 4:00 p.m. |
| APSC_V 100-L1N | APSC_V 100-L1N | Introduction to Engineering I | W1 | An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0] | In-Person Learning | Mon | 3:00 a.m. - 5:00 a.m. |
| APSC_V 100-L1O | APSC_V 100-L1O | Introduction to Engineering I | W1 | An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0] | In-Person Learning | Wed | 3:00 a.m. - 5:00 a.m. |
| APSC_V 100-L1Q | APSC_V 100-L1Q | Introduction to Engineering I | W1 | An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0] | In-Person Learning | Tue | 4:00 p.m. - 6:00 p.m. |
| APSC_V 100-L1R | APSC_V 100-L1R | Introduction to Engineering I | W1 | An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0] | In-Person Learning | Fri | 3:00 a.m. - 5:00 a.m. |
| APSC_V 100-L1S | APSC_V 100-L1S | Introduction to Engineering I | W1 | An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0] | In-Person Learning | Fri | 8:00 a.m. - 10:00 a.m. |
| APSC_V 100-L1T | APSC_V 100-L1T | Introduction to Engineering I | W1 | An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0] | In-Person Learning | Wed | 6:00 p.m. - 8:00 p.m. |
| APSC_V 100-L1U | APSC_V 100-L1U | Introduction to Engineering I | W1 | An introduction to the engineering profession including: roles and responsibilities of the engineer, the engineering disciplines, sustainability, an introduction to the engineering design process, introduction and application of the relevant foundational scientific principles, prototyping, engineering graphics, technical communication, and engineering ethics. This course is not eligible for Credit/D/Fail grading. [2-2-0] | In-Person Learning | Arranged | Arranged |
| APSC_V 100-L20 | APSC_V 100-L20 | Introduction to Engineering II | L20 | 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. [2-2-0] | In-Person Learning | Mon | 8:00 a.m. - 10:00 a.m. |
| APSC_V 100-L21 | APSC_V 100-L21 | Introduction to Engineering II | L21 | 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. [2-2-0] | In-Person Learning | Mon | 8:00 a.m. - 10:00 a.m. |
| APSC_V 100-L22 | APSC_V 100-L22 | Introduction to Engineering II | L22 | 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. [2-2-0] | In-Person Learning | Wed | 4:00 p.m. - 6:00 p.m. |
| APSC_V 100-L24 | APSC_V 100-L24 | Introduction to Engineering II | L24 | 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. [2-2-0] | In-Person Learning | Arranged | Arranged |
| APSC_V 100-L2A | APSC_V 100-L2A | Introduction to Engineering II | L2A | 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. [2-2-0] | In-Person Learning | Mon | 2:00 p.m. - 4:00 p.m. |
| APSC_V 100-L2B | APSC_V 100-L2B | Introduction to Engineering II | L2B | 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. [2-2-0] | In-Person Learning | Wed | 3:00 a.m. - 5:00 a.m. |
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. [2-2-0] Prerequisite: APSC 100.

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. [2-2-0] Prerequisite: APSC 100.

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. [2-2-0] Prerequisite: APSC 100.

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. [2-2-0] Prerequisite: APSC 100.

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. [2-2-0] Prerequisite: APSC 100.

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. [2-2-0] Prerequisite: APSC 100.
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</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 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.
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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.

APSC 160-101
Introductions to Computation in Engineering Design
60-2
In Person Learning
Tue Thu
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.

APSC 160-102
Introductions to Computation in Engineering Design
60-2
In Person Learning
Tue Thu

Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOSC 211. This course is not eligible for Credit/D/Fail grading.

APSC 160-103
Introductions to Computation in Engineering Design
60-2
In Person Learning
Tue Thu

Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOSC 211. This course is not eligible for Credit/D/Fail grading.

APSC 160-104
Introductions to Computation in Engineering Design
60-2
In Person Learning
Tue Thu

Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOSC 211. This course is not eligible for Credit/D/Fail grading.

APSC 160-105
Introductions to Computation in Engineering Design
60-2
In Person Learning
Tue Thu

Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOSC 211. This course is not eligible for Credit/D/Fail grading.

APSC 160-106
Introductions to Computation in Engineering Design
60-2
In Person Learning
Tue Thu

Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOSC 211. This course is not eligible for Credit/D/Fail grading.

APSC 160-107
Introductions to Computation in Engineering Design
60-2
In Person Learning
Tue Thu

Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOSC 211. This course is not eligible for Credit/D/Fail grading.

APSC 160-108
Introductions to Computation in Engineering Design
60-2
In Person Learning
Tue Thu

Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOSC 211. This course is not eligible for Credit/D/Fail grading.

APSC 160-109
Introductions to Computation in Engineering Design
60-2
In Person Learning
Tue Thu

Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOSC 211. This course is not eligible for Credit/D/Fail grading.

APSC 160-110
Introductions to Computation in Engineering Design
60-2
In Person Learning
Tue Thu

Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOSC 211. This course is not eligible for Credit/D/Fail grading.

APSC 160-111
Introductions to Computation in Engineering Design
60-2
In Person Learning
Tue Thu

Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOSC 211. This course is not eligible for Credit/D/Fail grading.
Introduction to Computation in Engineering Design

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

Tue

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

Thu

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

Fri

Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]
### Course Information

**Course Title:** Introduction to Computation in Engineering Design

**Credits:** 3-2-0

Analysis and simulation, laboratory data acquisition and processing, measurement interfaces, engineering tools, computer systems organization, programming languages. Credit will only be given for one of: APSC 160, CPSC 301, or EOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]

**Eligible Students:** For one of: APSC 160, CPSC 301, or EOSC 211. This course is not eligible for Credit/D/Fail grading. [3-2-0]

### Schedule

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Arranged

Co-operative Education Work Term

W2

In Person Learning

Wed (Alternate weeks)

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

Matter and Energy II

W2

In Person Learning

Wed (Alternate weeks)

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

In Person Learning

Co-operative Education Work Term

W2

In Person Learning

Fri

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

Technical Communication

W1

In Person Learning

Mon Wed Fri

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

In Person Learning

Co-operative Education Work Term

W2

In Person Learning

Arranged

Arranged

Arranged

Arranged

Arranged

Arranged

Arranged

Arranged

Arranged

Arranged

Arranged

Arranged

Arranged

Arranged

In Person Learning

W1

Materials and Energy II

In Person Learning

In Person Learning

Co-operative Education Work Term

W2

In Person Learning

Fridays

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

Technical Communication

W1

In Person Learning

Fri

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

Co-operative Education Work Term

W2

In Person Learning

Arranged

Arranged

Arranged

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Arranged

In Person Learning

W1

Materials and Energy II
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Supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: APSC 110.
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]

Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polymers, wood, concrete and fiber composite materials; selection of materials; corrosion; mechanical testing and heat treatment. This course is not eligible for Credit/D/Fail grading. [3-0-0]

Environmental, economic, political, and social aspects of appropriate technologies in the developing world. Appropriation technology and infrastructure, trade and finance, transportation, energy, water access, communications, health, and gender. This course is not eligible for Credit/D/Fail grading. [3-0-0]

Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polymers, wood, concrete and fiber composite materials; selection of materials; corrosion; mechanical testing and heat treatment. This course is not eligible for Credit/D/Fail grading. [3-0-0]
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.

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.
W2

Engineering Materials Laboratory

APSC_V 279-212
APSC_V 279-212
APSC_V 279-212
APSC_V 279-212

In Person Learning

Tue (Alternate weeks)

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

Atomic bonding; crystal structures and imperfections; properties of metals, ceramics, polyesters, 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] Co-requisite: APSC 278 may be taken.

APSC_V 279-213
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APSC_V 279-214
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APSC_V 279-218
APSC_V 279-218
APSC_V 279-218
APSC_V 279-218

In Person Learning

Wed (Alternate weeks)

5:00 p.m. - 7:00 p.m.

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. [0-2*-0] Corequisite: APSC 278 may be taken.

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. [0-2*-0] Corequisite: APSC 278 may be taken.

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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.

An introduction to engineering for the non-specialist. A case-studies approach includes examples from sustainability-related technology, consumer products, structure, and energy conversion. [3-0-0]

A supervised, technical work integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to students meeting the requirements of the Faculty of Applied Science and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading.

In Person Learning: Arranged
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.

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.

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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Co-operative Education Work Term

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<td>Co-operative Education Work Term. Supplied, 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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### Terms Arranged

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Projects involving students from several departments. This course is not eligible for Credit/D/Fail grading.
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<tr>
<td>APSC_V 520-100</td>
<td>Co-operative Education Work Term I</td>
<td>In Person Learning</td>
<td>W1-2</td>
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<td>APSC_V 520-101</td>
<td>Co-operative Education Work Term II</td>
<td>In Person Learning</td>
<td>W1-2</td>
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<td>APSC_V 520-200</td>
<td>Co-operative Education Work Term III</td>
<td>In Person Learning</td>
<td>W2</td>
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<tr>
<td>APSC_V 521-100</td>
<td>Co-operative Education Work Term I</td>
<td>In Person Learning</td>
<td>W1-2</td>
<td>Arranged</td>
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<tr>
<td>APSC_V 521-101</td>
<td>Co-operative Education Work Term II</td>
<td>In Person Learning</td>
<td>W1-2</td>
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<td>APSC_V 521-200</td>
<td>Co-operative Education Work Term III</td>
<td>In Person Learning</td>
<td>W2</td>
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<tr>
<td>APSC_V 522-100</td>
<td>Co-operative Education Work Term I</td>
<td>In Person Learning</td>
<td>W1-2</td>
<td>Arranged</td>
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<tr>
<td>APSC_V 522-101</td>
<td>Co-operative Education Work Term II</td>
<td>In Person Learning</td>
<td>W1-2</td>
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<td>APSC_V 522-200</td>
<td>Co-operative Education Work Term III</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Arranged</td>
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<tr>
<td>APSC_V 540-101</td>
<td>Entrepreneurial Thinking for Applied Scientists</td>
<td>In Person Learning</td>
<td>W1</td>
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<tr>
<td>APSC_V 541-201</td>
<td>Technology Entrepreneurship for Engineers</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Arranged</td>
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<tr>
<td>APSC_V 541-202</td>
<td>Technology Entrepreneurship for Engineers</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Arranged</td>
<td>Arranged</td>
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<tr>
<td>APSC_V 588-G-201</td>
<td>Topics in Engineering</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Arranged</td>
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<tr>
<td>APSC_V 588-L-001</td>
<td>Topics in Engineering</td>
<td>In Person Learning</td>
<td>W1-2</td>
<td>Arranged</td>
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<td>APSC_V 588-P-201</td>
<td>Topics in Engineering</td>
<td>In Person Learning</td>
<td>W2</td>
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<tr>
<td>AQUA_V 525-001</td>
<td>Ecological Sustainability of Aquaculture</td>
<td>In Person Learning</td>
<td>W1</td>
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<tr>
<td>ARBC_V 101-001</td>
<td>Beginning Classical and Quranic Arabic I</td>
<td>In Person Learning</td>
<td>W1</td>
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<td>ARBC_V 101-002</td>
<td>Beginning Classical and Quranic Arabic I</td>
<td>In Person Learning</td>
<td>W1</td>
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<td>ARBC_V 205-001</td>
<td>Beginning Classical and Quranic Arabic II</td>
<td>In Person Learning</td>
<td>W2</td>
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<td>ARBC_V 301-001</td>
<td>Intermediate Classical and Quranic Arabic I</td>
<td>In Person Learning</td>
<td>W1</td>
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<td>ARBC_V 302-001</td>
<td>Intermediate Classical and Quranic Arabic II</td>
<td>In Person Learning</td>
<td>W2</td>
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<tr>
<td>Course Code</td>
<td>Title</td>
<td>Type</td>
<td>Credits</td>
<td>Schedule</td>
<td>Location</td>
<td>Notes</td>
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<tr>
<td>ARBC_V 420-B_001</td>
<td>Architectural Design Studio I</td>
<td>In Person Learning</td>
<td>120</td>
<td>6:00 p.m. - 9:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>Wed</td>
</tr>
<tr>
<td>ARBM_V 101-011</td>
<td>Introductory Modern Arabic I</td>
<td>In Person Learning</td>
<td>011</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Mon Wed</td>
<td>4:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>ARBM_V 101-012</td>
<td>Introductory Modern Arabic I</td>
<td>In Person Learning</td>
<td>012</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Mon Wed</td>
<td>4:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>ARBM_V 101-021</td>
<td>Introductory Modern Arabic I</td>
<td>In Person Learning</td>
<td>021</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>ARBM_V 101-022</td>
<td>Introductory Modern Arabic I</td>
<td>In Person Learning</td>
<td>022</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Fri</td>
<td>Arranged</td>
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<tr>
<td>ARBM_V 201-011</td>
<td>Intermediate Modern Arabic I</td>
<td>In Person Learning</td>
<td>011</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Mon Wed Thu</td>
<td>10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>ARBM_V 201-021</td>
<td>Intermediate Modern Arabic I</td>
<td>In Person Learning</td>
<td>021</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>ARBM_V 202-011</td>
<td>Intermediate Modern Arabic II</td>
<td>In Person Learning</td>
<td>011</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Wed Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>ARBM_V 202-021</td>
<td>Intermediate Modern Arabic II</td>
<td>In Person Learning</td>
<td>021</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>ARBM_V 450-011</td>
<td>Advanced Studies in Modern Arabic Language and Cultures</td>
<td>In Person Learning</td>
<td>011</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Wed</td>
<td>2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>ARBM_V 450-021</td>
<td>Advanced Studies in Modern Arabic Language and Cultures</td>
<td>In Person Learning</td>
<td>021</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Fri</td>
<td>Arranged</td>
</tr>
<tr>
<td>ARCH_V 500-301</td>
<td>Architectural Design Studio II</td>
<td>In Person Learning</td>
<td>301</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>1:30 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>ARCH_V 501-301</td>
<td>Architectural Design Studio III</td>
<td>In Person Learning</td>
<td>301</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>1:30 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>ARCH_V 501-302</td>
<td>Architectural Design Studio III</td>
<td>In Person Learning</td>
<td>302</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>1:30 p.m. - 6:00 p.m.</td>
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<tr>
<td>ARCH_V 501-303</td>
<td>Architectural Design Studio III</td>
<td>In Person Learning</td>
<td>303</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>1:30 p.m. - 6:00 p.m.</td>
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<tr>
<td>ARCH_V 501-304</td>
<td>Architectural Design Studio III</td>
<td>In Person Learning</td>
<td>304</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>1:30 p.m. - 6:00 p.m.</td>
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<tr>
<td>ARCH_V 501-305</td>
<td>Architectural Design Studio III</td>
<td>In Person Learning</td>
<td>305</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>1:30 p.m. - 6:00 p.m.</td>
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<tr>
<td>ARCH_V 501-306</td>
<td>Architectural Design Studio III</td>
<td>In Person Learning</td>
<td>306</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>1:30 p.m. - 6:00 p.m.</td>
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<tr>
<td>ARCH_V 501-307</td>
<td>Architectural Design Studio III</td>
<td>In Person Learning</td>
<td>307</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>1:30 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>ARCH_V 501-308</td>
<td>Architectural Design Studio III</td>
<td>In Person Learning</td>
<td>308</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>1:30 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>ARCH_V 501-309</td>
<td>Architectural Design Studio III</td>
<td>In Person Learning</td>
<td>309</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>1:30 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>ARCH_V 501-310</td>
<td>Architectural Design Studio III</td>
<td>In Person Learning</td>
<td>310</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>1:30 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>ARCH_V 501-311</td>
<td>Architectural Design Studio III</td>
<td>In Person Learning</td>
<td>311</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>1:30 p.m. - 6:00 p.m.</td>
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</table>

This course is not eligible for Credit/D/Fail grading. Corequisite: ARCH 502.
<table>
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<th>Code</th>
<th>Name</th>
<th>Description</th>
<th>Time</th>
<th>Days</th>
<th>Type</th>
<th>Location</th>
<th>Instructor</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ARCH 501-001</td>
<td>Architectural Design Studio II</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.</td>
<td>W2</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Tue Fri</td>
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<td>In Person Learning</td>
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<tr>
<td>ARCH 501-002</td>
<td>Architectural Design Studio II</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.</td>
<td>W2</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Tue Fri</td>
<td></td>
<td>In Person Learning</td>
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<tr>
<td>ARCH 502-001</td>
<td>Architectural Design Studio II</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 500.</td>
<td>W1</td>
<td>Wed</td>
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<tr>
<td>ARCH 502-610</td>
<td>Introductory Workshop</td>
<td>Commissions in August one week prior to Labor Day. Enrollment mandatory for all incoming students. Credit will be granted for only one of ARCH 517 or LARC 511. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>Wed</td>
<td>In Person Learning</td>
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<tr>
<td>ARCH 503-A_101</td>
<td>Topics in Architectural History I (Pre-1900)</td>
<td>History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>W2</td>
<td></td>
<td>Asia, Kyoto</td>
</tr>
<tr>
<td>ARCH 503-B_201</td>
<td>Topics in Architectural History I (Pre-1900)</td>
<td>History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>Thu</td>
<td>In Person Learning</td>
<td></td>
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<tr>
<td>ARCH 503-C_302</td>
<td>Topics in Architectural History I (Pre-1900)</td>
<td>History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>Tue</td>
<td>In Person Learning</td>
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<tr>
<td>ARCH 503-D_001</td>
<td>Topics in Architectural History I (Pre-1900)</td>
<td>History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>Thu</td>
<td>In Person Learning</td>
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<tr>
<td>ARCH 503-F_001</td>
<td>Topics in Architectural History I (Pre-1900)</td>
<td>History of architecture in the pre-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>Thu</td>
<td>In Person Learning</td>
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<tr>
<td>ARCH 503-A_101</td>
<td>Topics in Architectural History II (1900-Present)</td>
<td>History of architecture in the post-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>Wed</td>
<td>Arranged</td>
<td>Arranged</td>
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<tr>
<td>ARCH 503-B_201</td>
<td>Topics in Architectural History II (1900-Present)</td>
<td>History of architecture in the post-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>Thu</td>
<td>In Person Learning</td>
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<tr>
<td>ARCH 503-C_302</td>
<td>Topics in Architectural History II (1900-Present)</td>
<td>History of architecture in the post-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>Tue</td>
<td>In Person Learning</td>
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<td>ARCH 503-D_001</td>
<td>Topics in Architectural History II (1900-Present)</td>
<td>History of architecture in the post-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>Thu</td>
<td>In Person Learning</td>
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<tr>
<td>ARCH 504-A_101</td>
<td>Topics in Architectural History II (1900-Present)</td>
<td>History of architecture in the post-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>Wed</td>
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<tr>
<td>ARCH 504-B_201</td>
<td>Topics in Architectural History II (1900-Present)</td>
<td>History of architecture in the post-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>Thu</td>
<td>In Person Learning</td>
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<tr>
<td>ARCH 504-C_302</td>
<td>Topics in Architectural History II (1900-Present)</td>
<td>History of architecture in the post-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>Tue</td>
<td>In Person Learning</td>
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<tr>
<td>ARCH 504-D_001</td>
<td>Topics in Architectural History II (1900-Present)</td>
<td>History of architecture in the post-1900 time period. Technological, political, social, and economic changes that have influenced architecture and related fields. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>Thu</td>
<td>In Person Learning</td>
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<tr>
<td>ARCH 505-A_101</td>
<td>Architectural Technology I</td>
<td>Architectural technology, including materials and methods, construction types, and building system integration. Strong emphasis on enclosure performance with focus on smaller buildings and light wood framing constructions. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>Wed</td>
<td>In Person Learning</td>
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<tr>
<td>ARCH 505-B_201</td>
<td>Architectural Technology I</td>
<td>Architectural technology, including materials and methods, construction types, and building system integration. Strong emphasis on enclosure performance with focus on smaller buildings and light wood framing constructions. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>Thu</td>
<td>In Person Learning</td>
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<tr>
<td>ARCH 505-C_302</td>
<td>Architectural Technology I</td>
<td>Architectural technology, including materials and methods, construction types, and building system integration. Strong emphasis on enclosure performance with focus on smaller buildings and light wood framing constructions. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>Tue</td>
<td>In Person Learning</td>
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</tr>
<tr>
<td>ARCH 505-D_001</td>
<td>Architectural Technology I</td>
<td>Architectural technology, including materials and methods, construction types, and building system integration. Strong emphasis on enclosure performance with focus on smaller buildings and light wood framing constructions. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>Thu</td>
<td>In Person Learning</td>
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<tr>
<td>ARCH 511-001</td>
<td>Architectural Technology I</td>
<td>Architectural technology, including materials and methods, construction types, and building system integration. Strong emphasis on enclosure performance with focus on smaller buildings and light wood framing constructions. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>Wed</td>
<td>In Person Learning</td>
<td></td>
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</tr>
<tr>
<td>ARCH 512-001</td>
<td>Structural I</td>
<td>Quantitative and qualitative means for understanding statics, materials and flow of force through a structure. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>Thu</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ARCH 513-001</td>
<td>Environmental Systems and Controls I</td>
<td>Building form and Fabric considerations to assure appropriate thermal, luminous, sonic, and atmospheric conditions within buildings. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>Wed</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>Mon Wed</td>
</tr>
<tr>
<td>ARCH 515-A_101</td>
<td>Design Media I</td>
<td>Foundations of manual and digital skills and concepts employing a variety of subjects, techniques and software. Credit will be granted for only one of ARCH 517, DES 211 or ENDS 300. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td>Wed</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>Mon Wed</td>
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<tr>
<td>ARCH 515-B_201</td>
<td>Design Media I</td>
<td>Foundations of manual and digital skills and concepts employing a variety of subjects, techniques and software. Credit will be granted for only one of ARCH 517, DES 211 or ENDS 300. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>Thu</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>Mon Wed</td>
</tr>
<tr>
<td>ARCH 517-A_101</td>
<td>Design Media II</td>
<td>Intermediate manual and digital skills and concepts employing a variety of subjects, techniques and software. Credit will be granted for only one of ARCH 517, DES 217 or ENDS 212. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>Thu</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>Mon Wed</td>
</tr>
<tr>
<td>ARCH 517-B_201</td>
<td>Design Media II</td>
<td>Intermediate manual and digital skills and concepts employing a variety of subjects, techniques and software. Credit will be granted for only one of ARCH 517, DES 217 or ENDS 212. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td>Thu</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>Mon Wed</td>
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<td>Code</td>
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<td>Location</td>
<td>Prerequisite</td>
<td>Instructor</td>
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<tr>
<td>ARCH_V 520-001</td>
<td>Architectural Design Studio III</td>
<td>W1</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
<td>Tue Fri</td>
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<tr>
<td>ARCH_V 520-002</td>
<td>Architectural Design Studio III</td>
<td>W1</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
<td>Tue Fri</td>
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<tr>
<td>ARCH_V 520-003</td>
<td>Architectural Design Studio III</td>
<td>W1</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
<td>Tue Fri</td>
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<tr>
<td>ARCH_V 520-004</td>
<td>Architectural Design Studio III</td>
<td>W1</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<tr>
<td>ARCH_V 520-005</td>
<td>Architectural Design Studio III</td>
<td>W1</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<tr>
<td>ARCH_V 520-006</td>
<td>Architectural Design Studio III</td>
<td>W1</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<tr>
<td>ARCH_V 520-007</td>
<td>Architectural Design Studio III</td>
<td>W1</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<tr>
<td>ARCH_V 520-008</td>
<td>Architectural Design Studio III</td>
<td>W1</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
<td>Tue Fri</td>
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<tr>
<td>ARCH_V 520-009</td>
<td>Architectural Design Studio III</td>
<td>W2</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<tr>
<td>ARCH_V 520-010</td>
<td>Architectural Design Studio III</td>
<td>W2</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<td>ARCH_V 520-011</td>
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<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<td>1:30 p.m. - 6:00 p.m.</td>
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<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<td>ARCH_V 520-013</td>
<td>Architectural Design Studio III</td>
<td>W2</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<td>ARCH_V 520-014</td>
<td>Architectural Design Studio III</td>
<td>W2</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<td>ARCH_V 520-015</td>
<td>Architectural Design Studio III</td>
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<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<td>ARCH_V 520-016</td>
<td>Architectural Design Studio III</td>
<td>W2</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<td>ARCH_V 520-017</td>
<td>Architectural Design Studio IV</td>
<td>W2</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<td>ARCH_V 520-018</td>
<td>Architectural Design Studio IV</td>
<td>W2</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<td>ARCH_V 520-019</td>
<td>Architectural Design Studio IV</td>
<td>W2</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<tr>
<td>ARCH_V 520-020</td>
<td>Architectural Design Studio IV</td>
<td>W2</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<tr>
<td>ARCH_V 520-021</td>
<td>Architectural Design Studio IV</td>
<td>W2</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<td>ARCH_V 520-022</td>
<td>Architectural Design Studio V</td>
<td>W1</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
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<tr>
<td>ARCH_V 520-023</td>
<td>Architectural Design Studio V</td>
<td>W1</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
<td>Tue Fri</td>
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<tr>
<td>ARCH_V 520-024</td>
<td>Architectural Design Studio V</td>
<td>W1</td>
<td>1:30 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 501.</td>
<td>Tue Fri</td>
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</table>
This course is not eligible for Credit/D/Fail grading. Prerequisite: ARCH 521.

Architectural Design Studio V

In Person Learning

1:30 p.m. - 6:00 p.m.

Seminar in Architecture

In Person Learning

1:30 p.m. - 6:00 p.m.

Professional Practice

In Person Learning

1:30 p.m. - 6:00 p.m.

Directed Studies in Architecture

In Person Learning

1:30 p.m. - 6:00 p.m.

Graduate Project Part I

In Person Learning

1:30 p.m. - 6:00 p.m.

Graduate Project Part I

In Person Learning

1:30 p.m. - 6:00 p.m.
**ARCH_V 549-001**  
**ARCH_V 549-101**  
Graduate Project Part II  
W1  
Design component, completion, and defense of the graduation design project. Honours/Pass/Fail.  
This course is not eligible for Credit/D/Fail grading. Prerequisite: [ARCH548] and no more than 18 credits outstanding beyond ARCH 549  
In Person Learning  
Arranged  
Arranged

**ARCH_V 549-102**  
**ARCH_V 549-201**  
Graduate Project Part II  
W1  
Design component, completion, and defense of the graduation design project. Honours/Pass/Fail.  
This course is not eligible for Credit/D/Fail grading. Prerequisite: [ARCH548] and no more than 18 credits outstanding beyond ARCH 549  
In Person Learning  
Arranged  
Arranged

**ARCH_V 549-201**  
**ARCH_V 549-201**  
Graduate Project Part II  
W2  
Design component, completion, and defense of the graduation design project. Honours/Pass/Fail.  
This course is not eligible for Credit/D/Fail grading. Prerequisite: [ARCH548] and no more than 18 credits outstanding beyond ARCH 549  
In Person Learning  
Arranged  
Arranged

**ARCH_V 555-A_001**  
**ARCH_V 555-A_001**  
Co-operative Education  
W1  
Approved and supervised work experience in an established company or organization for a minimum of one academic term. Technical report required. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

**ARCH_V 555-A_002**  
**ARCH_V 555-A_002**  
Co-operative Education  
W2  
Approved and supervised work experience in an established company or organization for a minimum of one academic term. Technical report required. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

**ARCH_V 555-B_001**  
**ARCH_V 555-B_001**  
Co-operative Education  
W1  
Approved and supervised work experience in an established company or organization for a minimum of one academic term. Technical report required. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

**ARCH_V 555-B_002**  
**ARCH_V 555-B_002**  
Co-operative Education  
W2  
Approved and supervised work experience in an established company or organization for a minimum of one academic term. Technical report required. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

**ARCH_V 574-201**  
**ARCH_V 574-201**  
Green Building Contemporary Practice  
W2  
The relationship between human and natural systems in the context of regenerative design. Provides an understanding of how regenerative approaches differ from green design and how they can offer new insights and directions for design. This course is not eligible for Credit/D/Fail grading.  
Equivalency: HPB502  
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.  
In Person Learning  
Wed  
3:00 p.m. - 6:00 p.m.

**ARCH_V 575-101**  
**ARCH_V 575-101**  
Regenerative Development  
W1  
The relationship between human and natural systems in the context of regenerative design. Provides an understanding of how regenerative approaches differ from green design and how they can offer new insights and directions for design. This course is not eligible for Credit/D/Fail grading.  
Equivalency: HPB502  
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.  
In Person Learning  
Fri  
9:30 a.m. - 12:30 p.m.

**ARCH_V 575-102**  
**ARCH_V 575-102**  
Regenerative Development  
W1  
The relationship between human and natural systems in the context of regenerative design. Provides an understanding of how regenerative approaches differ from green design and how they can offer new insights and directions for design. This course is not eligible for Credit/D/Fail grading.  
Equivalency: HPB502  
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.  
In Person Learning  
Arranged  
Arranged

**ARCH_V 597-F_001**  
**ARCH_V 597-F_001**  
Special Topics  
W1  
Individual or small group study of special topics. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Mon  
9:00 a.m. - 12:30 p.m.

**ARCH_V 597-F_002**  
**ARCH_V 597-F_002**  
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  
9:00 a.m. - 12:30 p.m.

**ARCH_V 597-F_003**  
**ARCH_V 597-F_003**  
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. - 2:00 p.m.

**ARCH_V 597-F_004**  
**ARCH_V 597-F_004**  
Special Topics  
W1  
Individual or small group study of special topics. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Fri  
11:00 a.m. - 2:00 p.m.

**ARCH_V 597-F_005**  
**ARCH_V 597-F_005**  
Special Topics  
W1  
Individual or small group study of special topics. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Fri  
11:00 a.m. - 2:00 p.m.

**ARCH_V 598-001**  
**ARCH_V 598-001**  
Research Thesis  
W1-2  
Restricted to M.A.S.A. candidates. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

**ARCH_V 598-002**  
**ARCH_V 598-002**  
Research Thesis  
W1  
Restricted to M.A.S.A. candidates. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

**ARCH_V 598-003**  
**ARCH_V 598-003**  
Research Thesis  
W2  
Restricted to M.A.S.A. candidates. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

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

**ARCH_V 103-002**  
**ARCH_V 103-002**  
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 103-003**  
**ARCH_V 103-003**  
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 103-004**  
**ARCH_V 103-004**  
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. - 12:30 p.m.

**ARCH_V 103-005**  
**ARCH_V 103-005**  
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. - 12:30 p.m.

**ARCH_V 103-006**  
**ARCH_V 103-006**  
Introduction to Archaeology: Past perspectives and Future Promise  
W2  
A critical introductory overview to the discipline of archaeology, its functions and entanglements, and potential contributions and transformations for the future.  
In Person Learning  
Fri  
12:00 p.m. - 1:00 p.m.
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<td>Introduction to Archaeology: Past perspectives and Future Promise</td>
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<td>Archaeological Methods</td>
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<td>ARCL_V 225-D01</td>
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<td>Taming the Wild: Animals, Alcohol and Agriculture</td>
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<td>ARCL_V 305-D01</td>
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<td>Archaeological Interpretation</td>
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<td>The Archaeology of Collapse and Sustainability</td>
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<td>Paleoenthropology</td>
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<td>Archaeological and Anthropological Mapping</td>
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<td>History of Record Keeping</td>
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<td>ARST_V 520-002</td>
<td>Selection and Acquisition of Archival Documents</td>
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<td>ARST_V 540-001</td>
<td>Archival Public Services</td>
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<td>ARST_V 554-001</td>
<td>Database Design</td>
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<td>The Preservation of Digital Records</td>
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<td>ARST_V 556-K_002</td>
<td>Topics in Archival Automation</td>
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<td>Topics in Archival Automation</td>
<td>W2</td>
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<td>ARST_V 565-002</td>
<td>Managing Records under Freedom of Information and Protection of Privacy legislation</td>
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<td>ARST_V 570-001</td>
<td>Management of Information Organizations</td>
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<td>Archival Systems and the Profession</td>
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<td>Topics in the Management of Records</td>
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<td>Information Practice and Protocol in Support of Indigenous Initiatives</td>
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<td>Progressive and Radical Information Work</td>
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Notes:
- Arts Co-op Work Term #1: Recommended co-requisite: ARTC 110 can be taken at the same time as ARTC 200.
- Arts Co-op Work Term #2: Recommended co-requisite: ARTC 110 can be taken at the same time as ARTC 210.
- Recommended pre-requisite: ARTC 110.
- Recommended co-requisite: ARTC 110 can be taken at the same time as ARTC 210.
- Recommended pre-requisite: ARTC 110.
- Recommended co-requisite: ARTC 110 can be taken at the same time as ARTC 200.
- Pass/Fail. This course is not eligible for Credit/D/Fail grading.
- Restricted to students in the Arts Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: Completion of Writing Component of Arts Writing and Research Requirement strongly recommended. In Person Learning Arranged Arranged

Search terms to obtain 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-operative Education Program. This course is not eligible for Credit/D/Fail grading. Recommended co-requisite: ARTC 110 can be taken at the same time as ARTC 200. Pass/Fail. Recommended pre-requisite: one of ARTC 210, ARTC 211. This course is not eligible for Credit/D/Fail grading.

Recommended co-requisite: ARTC 110 can be taken at the same time as ARTC 210.
Search term to obtain third work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and go for interviews until they are hired. ARTC 210 and ARTC 211 can be taken at the same time as ARTC 300. Pass/Fail. Recommended pre-requisite: one of ARTC 310, ARTC 311. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

Search term to obtain third work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and go for interviews until they are hired. ARTC 210 and ARTC 211 can be taken at the same time as ARTC 400. Pass/Fail. Recommended pre-requisite: one of ARTC 310, ARTC 311. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

Search term to obtain third work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and go for interviews until they are hired. ARTC 210 and ARTC 211 can be taken at the same time as ARTC 400. Pass/Fail. Recommended pre-requisite: one of ARTC 310, ARTC 311. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

Search term to obtain fourth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and go for interviews until they are hired. ARTC 310 and ARTC 311 can be taken at the same time as ARTC 400. Pass/Fail. Recommended pre-requisite: one of ARTC 310, ARTC 311. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

Optional fourth work term. Approved and supervised work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 410 and 411. ARTC 410 can be taken at the same time as ARTC 445. Pass/Fail. Recommended pre-requisite: ARTC 400. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

Optional fourth work term. Approved and supervised work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 410 and 411. ARTC 410 can be taken at the same time as ARTC 445. Pass/Fail. Recommended pre-requisite: ARTC 400. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged
| ARTC 445-01F | ARTC 445-01W | ARTS Co-op Search Term #5 | 445 | W1 | Search term to obtain optional fifth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and/for interviews only if they are hired. ARTC 450 and ARTC 451 can be taken at the same time as ARTC 445. Pass/Fail. Recommended pre-requisites: one of ARTC 445, ARTC 451. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| ARTC 445-02W | ARTC 445-02F | ARTS Co-op Search Term #5 | 445 | W2 | Search term to obtain optional fifth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and/for interviews only if they are hired. ARTC 450 and ARTC 451 can be taken at the same time as ARTC 445. Pass/Fail. Recommended pre-requisites: one of ARTC 445, ARTC 451. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| ARTC 445-02F | ARTC 445-02W | ARTS Co-op Search Term #5 | 445 | W1 | Search term to obtain optional fifth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and/for interviews only if they are hired. ARTC 450 and ARTC 451 can be taken at the same time as ARTC 445. Pass/Fail. Recommended pre-requisites: one of ARTC 445, ARTC 451. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| ARTC 445-02W | ARTC 445-02F | ARTS Co-op Search Term #5 | 445 | W2 | Search term to obtain optional fifth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and/for interviews only if they are hired. ARTC 450 and ARTC 451 can be taken at the same time as ARTC 445. Pass/Fail. Recommended pre-requisites: one of ARTC 445, ARTC 451. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| ARTC 445-02F | ARTC 445-02W | ARTS Co-op Search Term #5 | 445 | W1 | Search term to obtain optional fifth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and/for interviews only if they are hired. ARTC 450 and ARTC 451 can be taken at the same time as ARTC 445. Pass/Fail. Recommended pre-requisites: one of ARTC 445, ARTC 451. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| ARTC 445-02W | ARTC 445-02F | ARTS Co-op Search Term #5 | 445 | W2 | Search term to obtain optional fifth work term. Reflective assignment required and individual coaching sessions optional. Students apply for jobs and/for interviews only if they are hired. ARTC 450 and ARTC 451 can be taken at the same time as ARTC 445. Pass/Fail. Recommended pre-requisites: one of ARTC 445, ARTC 451. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| ARTC 450-01F | ARTC 450-01W | ARTS Co-op Work Term #5 | 450 | W1 | Extension of co-op term with the same employer in ARTC 450 or 451 for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 450 and 451. ARTC 450 can be taken at the same time as ARTC 450. 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 450-02W | ARTC 450-02F | ARTS Co-op Work Term #5 | 450 | W2 | Extension of co-op term with the same employer in ARTC 450 or 451 for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 450 and 451. ARTC 450 can be taken at the same time as ARTC 450. 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 450-02F | ARTC 450-02W | ARTS Co-op Work Term #5 | 450 | W1 | Extension of co-op term with the same employer in ARTC 450 or 451 for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 450 and 451. ARTC 450 can be taken at the same time as ARTC 450. 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 450-02W | ARTC 450-02F | ARTS Co-op Work Term #5 | 450 | W2 | Extension of co-op term with the same employer in ARTC 450 or 451 for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 450 and 451. ARTC 450 can be taken at the same time as ARTC 450. 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 451-01F | ARTC 451-01W | ARTS Co-op Work Term #5 | 451 | W1 | Extension of co-op term with the same employer in ARTC 450 or 451 for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 450 and 451. ARTC 450 can be taken at the same time as ARTC 450. 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 451-02W | ARTC 451-02F | ARTS Co-op Work Term #5 | 451 | W2 | Extension of co-op term with the same employer in ARTC 450 or 451 for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 450 and 451. ARTC 450 can be taken at the same time as ARTC 450. 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 451-02F | ARTC 451-02W | ARTS Co-op Work Term #5 | 451 | W1 | Extension of co-op term with the same employer in ARTC 450 or 451 for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 450 and 451. ARTC 450 can be taken at the same time as ARTC 450. 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 451-02W | ARTC 451-02F | ARTS Co-op Work Term #5 | 451 | W2 | Extension of co-op term with the same employer in ARTC 450 or 451 for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Credit will be granted for only one of ARTC 450 and 451. ARTC 450 can be taken at the same time as ARTC 450. 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 |
Ways of Seeing: Introduction to Visual Studies

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

Select issues in 20th-century art and the visual and built environment.

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

What is Modern Art?

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

Art, Patrons, and Audiences in the Middle Ages

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

Concepts and issues critical to the understanding of art and its histories in a global context.

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

Crisis and Contradiction in Art and the Built Environment

3:30 p.m. - 5:30 p.m.

Concepts and issues critical to the understanding of art and its histories in a global context.

2:00 p.m. - 3:30 p.m.

Concepts and issues critical to the understanding of art and its histories in a global context.

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

Crisis and Contradiction in Art and the Built Environment

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

Crisis and Contradiction in Art and the Built Environment

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

Crisis and Contradiction in Art and the Built Environment

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

Crisis and Contradiction in Art and the Built Environment

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

Crisis and Contradiction in Art and the Built Environment

2:00 p.m. - 3:30 p.m.

Concepts and issues critical to the understanding of art and its histories in a global context.

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

Crisis and Contradiction in Art and the Built Environment

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

Crisis and Contradiction in Art and the Built Environment

2:00 p.m. - 3:30 p.m.

Concepts and issues critical to the understanding of art and its histories in a global context.

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

Crisis and Contradiction in Art and the Built Environment

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

Concepts and issues critical to the understanding of art and its histories in a global context.

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

Crisis and Contradiction in Art and the Built Environment

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

Concepts and issues critical to the understanding of art and its histories in a global context.

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

Crisis and Contradiction in Art and the Built Environment

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

Concepts and issues critical to the understanding of art and its histories in a global context.

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

Crisis and Contradiction in Art and the Built Environment

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

Concepts and issues critical to the understanding of art and its histories in a global context.

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

Crisis and Contradiction in Art and the Built Environment

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

Concepts and issues critical to the understanding of art and its histories in a global context.

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

Crisis and Contradiction in Art and the Built Environment

1:00 p.m. - 2:00 p.m.
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<th>Section</th>
<th>Credits</th>
<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Instructor(s)</th>
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<td>ARTH 300-001</td>
<td>W1</td>
<td>3</td>
<td>Select issues in 20th-century art and the visual and built environment.</td>
<td>Thu</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ARTH 307-001</td>
<td>W1</td>
<td>3</td>
<td>History of Photography: Archive, Spectacle, Reality</td>
<td>Thu</td>
<td>8:00 a.m. - 10:10 a.m.</td>
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<td>ARTH 319-001</td>
<td>W1</td>
<td>3</td>
<td>Arts of Africa and the African Diasporas</td>
<td>Thu</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<td>ARTH 332-001</td>
<td>W1</td>
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<td>Asian Architecture: Sacred and Urban Spaces</td>
<td>Thu</td>
<td>8:00 a.m. - 10:10 a.m.</td>
<td>In Person Learning</td>
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<td>ARTH 338-001</td>
<td>W1</td>
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<td>Visual Culture in the Age of Enlightenment and Revolution (1715-1830)</td>
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<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<td>ARTH 345-001</td>
<td>W1</td>
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<td>Select issues in 20th-century art and the visual and built environment.</td>
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<td>12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ARTH 350-001</td>
<td>W1</td>
<td>3</td>
<td>What is Modern Art?</td>
<td>Thu</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ARTH 353-001</td>
<td>W1</td>
<td>3</td>
<td>20th Century Art and Culture: The Triumph and Demise of Modernism</td>
<td>Thu</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
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These courses cover a variety of topics in art history, including modernism, photography, and the history of art in different regions and time periods.
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<th>Course Title</th>
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<th>Type</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
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<td>ARTH 432-001</td>
<td>Seminar in Art in the Middle Ages</td>
<td>001</td>
<td>W1</td>
<td>Tue</td>
<td>4:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of ARTH 432, ARTH 433. Equivalency: ARTH 432, ARTH 433.</td>
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<td>ARTH 540-001</td>
<td>Visual and Digital Media Theory</td>
<td>001</td>
<td>W1</td>
<td>Wed</td>
<td>3:30 p.m. - 6:30 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>ARTH 438-001</td>
<td>Seminar in Early Modern Art</td>
<td>001</td>
<td>W1</td>
<td>Tue</td>
<td>2:00 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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<td>ARTH 444-101</td>
<td>Seminar in Modern and Contemporary Art</td>
<td>01</td>
<td>W2</td>
<td>Wed</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>The complex interrelations between film and the city, dominant urban theories, film technologies and viewing practices and the intersections between them. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>ARTH 445-001</td>
<td>Film and the City</td>
<td>001</td>
<td>W2</td>
<td>Wed</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Key debates in the field of art and architecture in the Islamic World.</td>
</tr>
<tr>
<td>ARTH 450-001</td>
<td>Seminar in Art in the Islamic World</td>
<td>001</td>
<td>W1</td>
<td>Wed</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Close analyses of Chinese tomb objects and tombs as spatial constructs in their historical, ritual, and social contexts.</td>
</tr>
<tr>
<td>ARTH 458-001</td>
<td>Seminar in Chinese Art</td>
<td>001</td>
<td>W2</td>
<td>Tue</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of ARTH 458, ARTH 451, ARTH 452. Equivalency: ARTH 451, ARTH 452.</td>
</tr>
<tr>
<td>ARTH 476-001</td>
<td>Seminar in North Americas Indigenous Art</td>
<td>001</td>
<td>W1</td>
<td>Thu</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Advanced performance art practices and research methodologies. Credit will be granted for only one of ARTH 476 or VISA 476. This course is not eligible for Credit/D/Fail grading. Equivalency: VISA 476.</td>
</tr>
<tr>
<td>ARTH 479-001</td>
<td>Seminar in Modern and Contemporary Art</td>
<td>001</td>
<td>W2</td>
<td>Wed</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>A thematic examination of key arguments in visual and digital media theory, focusing on developments in late-based and digital media in relationship to twentieth-century and contemporary artistic practice.</td>
</tr>
<tr>
<td>ARTH 480-001</td>
<td>Visual and Digital Media Theory</td>
<td>001</td>
<td>W1</td>
<td>Tue</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>ARTH 480-002</td>
<td>Visual and Digital Media Theory</td>
<td>002</td>
<td>W2</td>
<td>Tue</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>ARTH 499-001</td>
<td>Honours Essay</td>
<td>001</td>
<td>W1-2</td>
<td>Thu</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
</tbody>
</table>

**Notes:**
- Credit will be granted for only one of ARTH 459, ARTH 469, ARTH 479 or VISA 479. This course is not eligible for Credit/D/Fail grading. Equivalency: VISA 479.
- This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of ARTH 459, ARTH 469, ARTH 479. Equivalency: ARTH 469.
ARTH_V 553-A_001  Studies in Japanese Art  W1  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Thu  2:00 p.m. - 5:00 p.m.

ARTH_V 555-A_001  Studies in South and Southeast Asian Art  W2  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue  2:00 p.m. - 5:00 p.m.

ARTH_V 561-A_001  Studies in the Indigenous Arts of the Americas  W2  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue  8:00 a.m. - 12:00 p.m.

ARTH_V 571-A_001  The Methodology of Art History  W1-2  Required of all art history graduate students. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Wed  2:00 p.m. - 5:00 p.m.

ARTS_V 001-A_001  Arts One  W1-2  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

ARTS_V 001-A_301  Arts One  W1-2  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

ARTS_V 001-A_L01  Arts One  W1-2  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

ARTS_V 001-A_L02  Arts One  W1-2  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

ARTS_V 001-A_L03  Arts One  W1-2  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

ARTS_V 001-A_L04  Arts One  W1-2  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

ARTS_V 001-A_L05  Arts One  W1-2  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

ASIA_V 100-A_011  Introduction to Traditional Asia  W1  A survey of the histories and cultures of Asia before 1600 and the coming of the Europeans. Emphasis will be given to parallel themes in the development of the civilizations of South, Southeast and East Asia.  In Person Learning  Mon Wed Fri  11:00 a.m. - 12:30 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Instructor</th>
<th>Title</th>
<th>Hours</th>
<th>Type</th>
<th>Days</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASIA_V 200-01</td>
<td>W2</td>
<td>Introduction to Buddhism</td>
<td>2</td>
<td>Introductory</td>
<td></td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ASIA_V 200-01</td>
<td>W1</td>
<td>Myths, Ritual and Epic in Ancient India</td>
<td>2</td>
<td>Introductory</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>ASIA_V 200-01</td>
<td>W2</td>
<td>Cultural Foundations of South Asia</td>
<td>2</td>
<td>Introductory</td>
<td>Tue Thu</td>
<td>12:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>ASIA_V 210-01</td>
<td>W2</td>
<td>Traditions of Yoga</td>
<td>2</td>
<td>Introductory</td>
<td></td>
<td>4:00 p.m. - 7:00 p.m.</td>
</tr>
<tr>
<td>ASIA_V 212-01</td>
<td>W1</td>
<td>Writing About Japan</td>
<td>1</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>ASIA_V 250-01</td>
<td>W1</td>
<td>Introduction to Buddhism</td>
<td>1</td>
<td>In Person Learning</td>
<td></td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ASIA_V 250-01</td>
<td>W1</td>
<td>Religion in South Asia</td>
<td>1</td>
<td>In Person Learning</td>
<td></td>
<td>12:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>ASIA_V 250-01</td>
<td>W2</td>
<td>Introduction to Buddhism</td>
<td>1</td>
<td>In Person Learning</td>
<td></td>
<td>4:00 p.m. - 7:00 p.m.</td>
</tr>
<tr>
<td>ASIA_V 250-01</td>
<td>W2</td>
<td>Cultural Foundations of East Asia</td>
<td>1</td>
<td>In Person Learning</td>
<td></td>
<td>4:00 p.m. - 7:00 p.m.</td>
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<tr>
<td>ASIA_V 250-02</td>
<td>W2</td>
<td>Introduction to Buddhism</td>
<td>1</td>
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<td>9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>ASIA_V 250-02</td>
<td>W2</td>
<td>Introduction to Buddhism</td>
<td>1</td>
<td>In Person Learning</td>
<td></td>
<td>12:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>ASIA_V 250-03</td>
<td>W2</td>
<td>Introduction to Buddhism</td>
<td>1</td>
<td>In Person Learning</td>
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<tr>
<td>ASIA_V 250-04</td>
<td>W2</td>
<td>Introduction to Buddhism</td>
<td>1</td>
<td>In Person Learning</td>
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<td>4:00 p.m. - 7:00 p.m.</td>
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<tr>
<td>ASIA_V 254-01</td>
<td>W1</td>
<td>Sex, Gender, and Sexuality in Japanese Literature and Films</td>
<td>1</td>
<td>In Person Learning</td>
<td></td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>ASIA_V 256-02</td>
<td>W2</td>
<td>Religion in South Asia</td>
<td>2</td>
<td>Introductory</td>
<td></td>
<td>4:00 p.m. - 7:00 p.m.</td>
</tr>
<tr>
<td>ASIA_V 258-02</td>
<td>W2</td>
<td>Writing and Culture in East Asia</td>
<td>1</td>
<td>In Person Learning</td>
<td></td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ASIA_V 305-01</td>
<td>W2</td>
<td>Asian Horror Cinema: National Nightmares and Specters of Trauma</td>
<td>2</td>
<td>In Person Learning</td>
<td></td>
<td>4:00 p.m. - 7:00 p.m.</td>
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<tr>
<td>ASIA_V 308-01</td>
<td>W1</td>
<td>Myth, Ritual and Epic in Ancient India</td>
<td>1</td>
<td>In Person Learning</td>
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<td>12:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>ASIA_V 309-01</td>
<td>W1</td>
<td>A History of South Asian peoples and communities that emigrated overseas, including Indo-Canadians</td>
<td>1</td>
<td>Online Learning</td>
<td>Tue</td>
<td>4:00 p.m. - 7:00 p.m.</td>
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<tr>
<td>ASIA_V 310-01</td>
<td>W1</td>
<td>Studies in the History of a Major Asian Civilization</td>
<td>1</td>
<td>In Person Learning</td>
<td></td>
<td>12:30 p.m. - 2:00 p.m.</td>
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<tr>
<td>Course Code</td>
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<td>Schedule</td>
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<td>ASIA 310-H_012</td>
<td>Studies in the History of a Major Asian Civilization</td>
<td>W1</td>
<td>H_012</td>
<td>310</td>
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<td>Studies in the History of a Major Asian Civilization</td>
<td>W1</td>
<td>H_013</td>
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<td>ASIA 310-H_014</td>
<td>Studies in the History of a Major Asian Civilization</td>
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<td>H_014</td>
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<td>ASIA 310-H_015</td>
<td>Studies in the History of a Major Asian Civilization</td>
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<td>H_015</td>
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<td>ASIA 310-H_016</td>
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<td>ASIA 310-H_017</td>
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<td>H_017</td>
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<td>ASIA 310-H_018</td>
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<td>Studies in the History of a Major Asian Civilization</td>
<td>W1</td>
<td>H_019</td>
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<td>ASIA 310-H_020</td>
<td>Studies in the History of a Major Asian Civilization</td>
<td>W1</td>
<td>H_020</td>
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<td>ASIA 310-H_021</td>
<td>Studies in the History of a Major Asian Civilization</td>
<td>W2</td>
<td>H_021</td>
<td>310</td>
<td>Arranged</td>
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<tr>
<td>ASIA 310-H_022</td>
<td>Studies in the History of a Major Asian Civilization</td>
<td>W2</td>
<td>H_022</td>
<td>310</td>
<td>Arranged</td>
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<tr>
<td>ASIA 310-H_023</td>
<td>Studies in the History of a Major Asian Civilization</td>
<td>W2</td>
<td>H_023</td>
<td>310</td>
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<td>ASIA 310-H_024</td>
<td>Studies in the History of a Major Asian Civilization</td>
<td>W2</td>
<td>H_024</td>
<td>310</td>
<td>Arranged</td>
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<tr>
<td>ASIA 311-021</td>
<td>Tibetan Buddhism</td>
<td>W2</td>
<td>E21</td>
<td>311</td>
<td>Arranged</td>
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<tr>
<td>ASIA 313-021</td>
<td>Tibetan and Himalayan Culture and Society</td>
<td>W1</td>
<td>E01</td>
<td>313</td>
<td>In Person Learning</td>
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<tr>
<td>ASIA 314-021</td>
<td>Premodern Japan</td>
<td>W1</td>
<td>E01</td>
<td>314</td>
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<tr>
<td>ASIA 315-021</td>
<td>Japan from Feudal to Modern State</td>
<td>W2</td>
<td>E21</td>
<td>315</td>
<td>In Person Learning</td>
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<tr>
<td>ASIA 317-021</td>
<td>The Rise of Korean Civilization</td>
<td>W2</td>
<td>E21</td>
<td>317</td>
<td>In Person Learning</td>
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<tr>
<td>ASIA 319-021</td>
<td>Contemporary Chinese Popular Cultures</td>
<td>W1</td>
<td>E01</td>
<td>319</td>
<td>In Person Learning</td>
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<tr>
<td>ASIA 320-021</td>
<td>History of Early China</td>
<td>W2</td>
<td>E21</td>
<td>320</td>
<td>Online Learning</td>
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<tr>
<td>ASIA 320-021</td>
<td>History of Early China</td>
<td>W2</td>
<td>E21</td>
<td>320</td>
<td>Online Learning</td>
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<tr>
<td>ASIA 323-021</td>
<td>History of Continental Worlds</td>
<td>W2</td>
<td>E21</td>
<td>323</td>
<td>In Person Learning</td>
<td></td>
</tr>
</tbody>
</table>
A survey of the literature of Hong Kong, from classical times to the present. Important periods in literary history (imperial, colonial, post-colonial), major authors (locals, visitors, and writers elsewhere), and important genres, including poetry, essays, and fiction.

In Person Learning Tue Thu

Tue Thu

5:00 p.m. - 6:30 p.m.

2:00 p.m. - 3:30 p.m.

2:00 p.m. - 3:30 p.m.

2:00 p.m. - 3:30 p.m.

2:00 p.m. - 3:30 p.m.

2:00 p.m. - 3:30 p.m.

2:00 p.m. - 3:30 p.m.

2:00 p.m. - 3:30 p.m.
<table>
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<tr>
<th>Code</th>
<th>Title</th>
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<th>In Person Learning</th>
<th>Hybrid Learning</th>
<th>Online Learning</th>
<th>Characteristics</th>
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<tr>
<td>ASIA_V 327-026</td>
<td>Korean Popular Music in Context</td>
<td>W2</td>
<td></td>
<td></td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ASIA_V 330-011</td>
<td>History of Chinese Cinema</td>
<td>W1</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>History, culture, values, and sociopolitical movements of the Islamic world from 1500 to the modern day. Interconnections between power, politics, gender, and the arts in modern Islamic societies. Recommended as a basis for all other Islamic studies courses.</td>
</tr>
<tr>
<td>ASIA_V 333-011</td>
<td>Contemporary South Asian Gender and Sexuality Studies</td>
<td>W1</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>Main theories and key concepts with a particular focus on the changing status of women, and gender and sexual minorities.</td>
</tr>
<tr>
<td>ASIA_V 333-021</td>
<td>Contemporary South Asian Gender and Sexuality Studies</td>
<td>W2</td>
<td>Online Learning</td>
<td></td>
<td></td>
<td>Main theories and key concepts with a particular focus on the changing status of women, and gender and sexual minorities.</td>
</tr>
<tr>
<td>ASIA_V 334-011</td>
<td>Writing Women in Premodern East Asia</td>
<td>W1</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>The construction of gender in literary writings by and about women in select areas of premodern East Asia.</td>
</tr>
<tr>
<td>ASIA_V 336-011</td>
<td>Sufi and Bhakti Devotional Literature</td>
<td>W1</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>Sufi and Bhakti thought and tradition in South Asia through literary works in translation.</td>
</tr>
<tr>
<td>ASIA_V 337-021</td>
<td>The Koreans in Modern Times (1680 to the present)</td>
<td>W2</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>The transformation of Korea from a Confucian state into an industrial nation. The rise of rationalism and modern ideologies (Korea). Culture, social and economic changes Korea has undergone as it has entered the modern world.</td>
</tr>
<tr>
<td>ASIA_V 339-021</td>
<td>The Construction of South Asian Communities in the Diaspora</td>
<td>W2</td>
<td>Online Learning</td>
<td></td>
<td></td>
<td>An examination of contemporary South Asian communities in the diaspora. Topics of particular importance are family life, religious life, notions of space, cross-cultural memory, literary and visual representation.</td>
</tr>
<tr>
<td>ASIA_V 342-011</td>
<td>Chinese Literature in Translation: The Vernacular Tradition</td>
<td>W1</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>Readings in drama and fiction, 800 to 1800 AD: The emergence of vernacular genres as distinct from and sometimes opposed to the existing classical genres.</td>
</tr>
<tr>
<td>ASIA_V 344-A_011</td>
<td>Topics in Japanese Cultural History I: Aristocrats and Warriors</td>
<td>W1</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>Focuses each year on a specific topic related to the courtly or warrior culture of Japan.</td>
</tr>
<tr>
<td>ASIA_V 346-A_021</td>
<td>Topics in Japanese Cultural History II: The Early Modern Age</td>
<td>W2</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>Focuses each year on a specific topic related to the culture of early modern Japan.</td>
</tr>
<tr>
<td>ASIA_V 348-021</td>
<td>Poetic Life in Classical India</td>
<td>W2</td>
<td>Online Learning</td>
<td></td>
<td></td>
<td>Cultural explorations in the poetry, theatre, and courtly prose writings of India in the classical period (c. 300-1300 CE).</td>
</tr>
<tr>
<td>ASIA_V 351-011</td>
<td>Modern Chinese Fiction in Translation</td>
<td>W1</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>Reading of selected novels and stories written between 1750 and the present.</td>
</tr>
<tr>
<td>ASIA_V 351-021</td>
<td>Modern Chinese Fiction in Translation</td>
<td>W2</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>Reading of selected novels and stories written between 1750 and the present.</td>
</tr>
<tr>
<td>ASIA_V 353-021</td>
<td>Introduction to Hindi Film</td>
<td>W2</td>
<td>Hybrid Learning</td>
<td></td>
<td></td>
<td>Students will be introduced to the works of the major directors (e.g., Ozu, Mizoguchi, Oshima, Oshima, Oshima). Recommended as a basis for all other film studies courses.</td>
</tr>
<tr>
<td>ASIA_V 354-021</td>
<td>Introduction to Japanese Cinema</td>
<td>W2</td>
<td>Online Learning</td>
<td></td>
<td></td>
<td>Students will be introduced to the works of the major directors (e.g., Ozu, Mizoguchi, Oshima, Oshima, Oshima). Recommended as a basis for all other film studies courses.</td>
</tr>
<tr>
<td>ASIA_V 355-011</td>
<td>History of Chinese Cinema</td>
<td>W1</td>
<td>Hybrid Learning</td>
<td></td>
<td></td>
<td>Introduction to the work of major directors.</td>
</tr>
<tr>
<td>ASIA_V 355-012</td>
<td>History of Chinese Cinema</td>
<td>W1</td>
<td>Hybrid Learning</td>
<td></td>
<td></td>
<td>Introduction to the work of major directors.</td>
</tr>
<tr>
<td>ASIA_V 355-021</td>
<td>History of Chinese Cinema</td>
<td>W2</td>
<td>Hybrid Learning</td>
<td></td>
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<td>Introduction to the work of major directors.</td>
</tr>
<tr>
<td>ASIA_V 355-022</td>
<td>History of Chinese Cinema</td>
<td>W2</td>
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<td>Introduction to the work of major directors.</td>
</tr>
<tr>
<td>ASIA_V 356-011</td>
<td>Korean Cinema</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>Introduction to the work of the major film makers.</td>
</tr>
<tr>
<td>ASIA_V 360-011</td>
<td>Modern Chinese Literature in Translation</td>
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<td>In Person Learning</td>
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<td></td>
<td>A thematic survey of modern Chinese fiction and film in translation.</td>
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<tr>
<td>ASIA_V 361-021</td>
<td>Anarchism and Feminism in Premodern East Asia</td>
<td>W2</td>
<td>In Person Learning</td>
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<td>Examines the construction of anarchism and feminism in premodern East Asia.</td>
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<tr>
<td>ASIA_V 367-011</td>
<td>Chinese Literature in Translation: The Vernacular Tradition</td>
<td>W1</td>
<td>In Person Learning</td>
<td></td>
<td></td>
<td>Readings in drama and fiction, 800 to 1800 AD: The emergence of vernacular genres as distinct from and sometimes opposed to the existing classical genres.</td>
</tr>
<tr>
<td>ASIA_V 380-011</td>
<td>Afghan History</td>
<td>W1</td>
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<td></td>
<td>A thematic survey of modern Chinese fiction and film in translation.</td>
</tr>
</tbody>
</table>
ASIA_V 363-021
ASIA_V 363 021 Fiction and Film from Modern Taiwan
W1 A reading-intensive survey of history and cinematic culture in Taiwan since the early 20th century; colonization, the national divide, violence, trauma, consumerism, and popular imagery. In Person Learning Arranged Arranged

ASIA_V 363-021
ASIA_V 363 021 Fiction and Film from Modern Taiwan
W2 A reading-intensive survey of history and cinematic culture in Taiwan since the early 20th century; colonization, the national divide, violence, trauma, consumerism, and popular imagery. Online Learning Fri 11:00 a.m. - 2:00 p.m.

ASIA_V 364-A_021
ASIA_V 364 A A_021 Modern Japanese Literature in Translation
W2 An introduction to the literature and cultural history of modern Japan, with readings drawn from various literary genres, from 1868 to the present. In Person Learning Fri 2:00 p.m. - 5:00 p.m.

ASIA_V 365-021
ASIA_V 365 021 Rupjolee Chakma
W2 Punjabi culture, history, and social values through films. The class includes film viewings and seminar discussions. Films will be subtitled. In Person Learning Arranged Arranged

ASIA_V 366-A_021
ASIA_V 366 A A_021 Topics in Asian Studies
W2 Thematically-organized topics in Asian literature, history, visual culture, religions, or communities. Topics vary from section to section. Consult Department for current offerings. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

ASIA_V 366-C_021
ASIA_V 366 C C_021 Topics in Asian Studies
W1 Thematically-organized topics in Asian literature, history, visual culture, religions, or communities. Topics vary from section to section. Consult Department for current offerings. Hybrid Learning Mon Wed 12:30 p.m. - 2:00 p.m.

ASIA_V 366-D_021
ASIA_V 366 D D_021 Topics in Asian Studies
W1 Thematically-organized topics in Asian literature, history, visual culture, religions, or communities. Topics vary from section to section. Consult Department for current offerings. In Person Learning Arranged Arranged

ASIA_V 366-E_021
ASIA_V 366 E E_021 Topics in Asian Studies
W1 Thematically-organized topics in Asian literature, history, visual culture, religions, or communities. Topics vary from section to section. Consult Department for current offerings. In Person Learning Tue Thu 2:00 p.m. - 4:00 p.m.

ASIA_V 367-021
ASIA_V 367 021 Contemporary Korean Culture
W1 An introduction to the literature, drama, music, and art of Korea today. Particular attention will be paid to the continuing influence of traditional themes and forms. In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.

ASIA_V 367-021
ASIA_V 367 021 Contemporary Korean Culture
W2 An introduction to the literature, drama, music, and art of Korea today. Particular attention will be paid to the continuing influence of traditional themes and forms. In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.

ASIA_V 368-A_021
ASIA_V 368 A A_021 Modern Literatures of South Asia in Translation
W2 Fiction, drama, and/or poetry of modern India, Pakistan, Bangladesh, and/or Sri Lanka, including works in translation and/or originally written in English. In Person Learning Arranged Arranged

ASIA_V 370-011
ASIA_V 370 011 The Sandrit Cosmopolis: India and the World, 200-1050 CE
W1 Languages, religions, art forms, and political structures of Asian societies shaped by creative encounters with Sanskrit. In Person Learning Mon Wed 2:00 p.m. - 3:10 p.m.

ASIA_V 371-011
ASIA_V 371 011 Foundations of Chinese Thought
W1 Early (pre 221 BC) Chinese thought (Confucianism, Daoism, Mohism, Legalism), its contemporary implications, and the role of philosophy and religion in human flourishing. Credit will only be granted for one of PHIL 371 or ASIA 371. Equivalency: PHIL 371
In Person Learning Tue Thu 11:00 a.m. - 12:10 p.m.

ASIA_V 372-021
ASIA_V 372 021 Foundations of Chinese Thought
W2 Early (pre 221 BC) Chinese thought (Confucianism, Daoism, Mohism, Legalism), its contemporary implications, and the role of philosophy and religion in human flourishing. Credit will only be granted for one of PHIL 371 or ASIA 371. Equivalency: PHIL 371
Online Learning Mon 2:00 p.m. - 3:10 p.m.

ASIA_V 373-021
ASIA_V 373 021 History of Hong Kong
W2 History, culture, and identities of Hong Kong from the early 1800s to the present. Credit will be granted for only one of ASIA 373 or HIST 373. Equivalency: HIST 373
In Person Learning Mon 3:00 p.m. - 4:00 p.m.

ASIA_V 375-011
ASIA_V 375 011 Global Chinese Cinemas
W1 A survey of Chinese cinemas in global perspective, covering films, filmmakers, producers, audiences, markets, industries, and critical discourse since the early twentieth century. Covers both cinematic culture and filmmaking techniques. Hybrid Learning Thu 4:00 p.m. - 6:00 p.m.

ASIA_V 375-021
ASIA_V 375 021 Global Chinese Cinemas
W2 A survey of Chinese cinemas in global perspective, covering films, filmmakers, producers, audiences, markets, industries, and critical discourse since the early twentieth century. Covers both cinematic culture and filmmaking techniques. Hybrid Learning Thu 3:00 p.m. - 5:00 p.m.

ASIA_V 378-001
ASIA_V 378 001 Philosophical Writings of Early India
W1 Early works in Sanskrit and Aramaic thought from the Vedic period to the period of the rise of philosophical schools or systems. Philosophy in the Mahabharata, Gita, early Buddhist and Jain views on knowledge and reality, views on language. Credit will be granted for only one of ASIA 378 or PHIL 378. Equivalency: PHIL 378
In Person Learning Tue Thu 2:00 p.m. - 3:10 p.m.

ASIA_V 386-011
ASIA_V 386 011 Chinese Grammar and Usage I
W1 An introduction to the literature and cultural history of modern Japan, with readings drawn from various literary genres, from 1868 to the present. Covers both cinematic culture and filmmaking techniques. Multi-access Learning Tue Thu 12:30 p.m. - 2:00 p.m.

ASIA_V 387-021
ASIA_V 387 021 Japanese Religions
W2 An introduction to traditional Japanese religions including Shinto, Buddhism, Shugendo, Confucianism, new religions and folklore, and their roles in Japanese history, culture and society. In Person Learning Mon Wed 3:30 p.m. - 5:00 p.m.

ASIA_V 388-001
ASIA_V 388 001 Classical South Asian Philosophy
W2 Themes-organized topics in Asian literature, history, visual culture, religions, or communities. Topics vary from section to section. Consult Department for current offerings. In Person Learning Mon Wed Fri 11:00 a.m. - 12:10 p.m.

ASIA_V 390-001
ASIA_V 390 001 History of the Indian Ocean World
W1 History and culture, values, and achievements of Islamic societies from 700-1050; interconnections between power, politics, gender, and the arts in Islamic societies. Recommended as a basis for all other Islamic studies courses. In Person Learning Mon 9:00 a.m. - 12:00 p.m.
ASIA_V 389-A_021
ASIA_V 389 021
Post-Revolutionary Iranian Cinema
W1
Gender politics, family relationships, and women's social, economic, and political roles in post-revolutionary Iran as shown through Iranian cinema.
Online Learning
Thu
2:00 p.m. - 5:00 p.m.

ASIA_V 385-A_021
ASIA_V 385 021
Modern Persian Literature
W2
Modern Persian literature, including fiction, drama, and/or poetry of Iran, Afghanistan, and/or Tajikistan dating from the mid-19th to the 20th century (in English translation).
Online Learning
Thu
2:00 p.m. - 5:00 p.m.

ASIA_V 386-A_021
ASIA_V 386 021
Chinese Grammar and Usage II
W2
Analysis of modern Chinese grammar and its usage in various discourses, studying its form and function in relation to social and cultural contexts. Continuation of ASIA 286. Recommended prerequisite: ASIA 286 or higher level of Chinese language proficiency.
Online Learning
Fri
2:00 p.m. - 5:00 p.m.

ASIA_V 397-A_021
ASIA_V 397 021
The idea of India
W2
History of cultural ideas that led to India's transformation from a traditional, colonial society tied to the British empire into a postcolonial, pluralistic, development oriented parliamentary democracy.
Online Learning
Wed
4:00 p.m. - 7:00 p.m.

ASIA_V 388-A_021
ASIA_V 388 021
Narrative Literature in Premodern India
W2
Stories of gods, goddesses and religious heroes from the Ramayana, Mahabharata, Ramcharitmanas, Avadhanas and in classical poetry and drama.
In Person Learning
Wed/Fri
11:00 a.m. - 12:30 p.m.

ASIA_V 389-A_021
ASIA_V 389 021
Films of the South Asian Diaspora
W2
Contemporary films of the South Asian Diaspora, with a focus on Canada, US, and UK. Emphasizes theories of representation, visual and cultural analysis.
Online Learning
Wed
2:00 p.m. - 3:30 p.m.

ASIA_V 420-A_011
ASIA_V 420 011
International Relations in Premodern East Asia
W1
International relations, particularly between Korea and Japan in the premodern East Asian context, focusing on migration, trade, diplomacy, war, collective memory, mutual perceptions, and the context of the Sinocentric international order.
In Person Learning
Mon/ Wed
1:30 p.m. - 5:00 p.m.

ASIA_V 411-A_011
ASIA_V 411 011
Chinese Religious Thought and Institutions
W1
Chinese theories and practices of government and administration from earliest times to 1949.
Online Learning
Mon
11:00 a.m. - 2:00 p.m.

ASIA_V 411-A_021
ASIA_V 411 021
Chinese Religious Thought and Institutions
W2
Chinese theories and practices of government and administration from earliest times to 1949.
Online Learning
Fri
2:00 p.m. - 5:00 p.m.

ASIA_V 419-A_021
ASIA_V 419 021
Economic History of India
W2
Examines the material foundations of Indian history. Considers India's place in the premodern world, different phases of globalization, processes and legacies of European colonial rule, and the development of India's modern economy.
In Person Learning
Arranged
Arranged

ASIA_V 429-A_011
ASIA_V 429 011
Relics, Martyrs, and Outlaws in Early Modern Japan
W1
The social history of early-modern Japan with a particular focus on the patterns of organized protests, rebellions, and new views under samurai rule.
In Person Learning
Mon/ Wed/ Fri
12:00 p.m. - 1:00 p.m.

ASIA_V 430-A_021
ASIA_V 430 021
International Relations in Modern East Asia: Korea and Japan
W2
Trade, diplomacy, war, imperialism, military, colonization, 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-A_011
ASIA_V 433 011
Representations of Muslims in Hindi/Urdu Films
W1
Exploring Muslims in relation to the majority community as well as other minorities in South Asian cinema, with a particular focus on the Hindi/Urdu film industry. Prerequisite: Second-year standing and above.
Online Learning
Mon
11:00 a.m. - 12:30 p.m.

ASIA_V 441-A_011
ASIA_V 441 A, 011
Masterworks of Chinese Fiction and Drama in Translation
W1
Reading of a classic novel or play, with attention to intellectual, social, and political subtexts as well as aesthetic dimensions and problems of interpretation.
In Person Learning
Tue/ Thu
9:30 a.m. - 11:00 a.m.

ASIA_V 444-A_021
ASIA_V 444 021
Topics in Modern Japanese Fiction and Cultural History
W2
Focuses on a limited time period or particular aspect of modern Japanese literature. In Person Learning
Thu
2:00 p.m. - 5:00 p.m.

ASIA_V 453-A_011
ASIA_V 453 011
Japanese Travel Literature
W1
Japanese travel literature (myths, legends, poetry, tales, diaries, illustrated guides, satiric sermons, fables, comic fictions, colonial reporting, and ethnography) from the 8th century to the present. Restricted to fourth-year Asian Studies majors. This course is not eligible for Credit/D/Fail grading.
In Person Learning
Fri
2:00 p.m. - 5:00 p.m.

ASIA_V 456-A_011
ASIA_V 456 011
History and Culture of Taiwan
W1
The major social, economic, political, and cultural changes in Taiwan since the seventeenth century: the post-World War II process of democratization and Taiwan's place in the contemporary world.
Online Learning
Fri
11:00 a.m. - 2:00 p.m.

ASIA_V 461-A_011
ASIA_V 461 011
Gender and Sexuality in Modern Iranian Narratives
W1
Literary, cinematic, folk, and/or popular culture texts from modern Iran. Emphasis on constructions and contestations of masculinities and femininities, as they intersect with sexuality, race, ethnicity, ability, and/or religion.
Online Learning
Tue/ Thu
9:30 a.m. - 11:00 a.m.

ASIA_V 464-A_021
ASIA_V 464 021
Japanese Women's Self-Writing
W2
Japanese women's self-writing during the period of the Meiji Restoration (1868-1912), and/or the Taisho and Showa eras (1912-1989).
In Person Learning
Arranged
Arranged

ASIA_V 465-A_011
ASIA_V 465 011
Japanese Horror
W1
The genre of Japanese visual horror explored through formal visual literacy, genre theory, and media analysis. This course is not eligible for Credit/D/Fail grading. Prerequisite: Second-year standing and above.
In Person Learning
Wed
5:00 p.m. - 9:00 p.m.

ASIA_V 470-A_011
ASIA_V 470 011
Comparative Conceptions of the Self
W1
Way in which the self has been portrayed in eastern and western religious traditions. Thinkers to be considered include Aristotle, Mencius, Freud, Xunzi (Hsun-tzu), Nietzsche, and Zhuangzi (Chuang-tzu).
In Person Learning
Tue
3:30 p.m. - 5:00 p.m.

ASIA_V 470-A_021
ASIA_V 470 021
Comparative Conceptions of the Self
W2
Way in which the self has been portrayed in eastern and western religious traditions. Thinkers to be considered include Aristotle, Mencius, Freud, Xunzi (Hsun-tzu), Nietzsche, and Zhuangzi (Chuang-tzu). Credit will be granted for only one of ASIA 470 or PHIL 470.
In Person Learning
Tue
9:30 a.m. - 11:00 a.m.

ASIA_V 476-A_021
ASIA_V 476 021
Topics in South Asian Studies
W2
Seminar class designed to explore current scholarly debates in South Asian and Sikh Studies. May be repeated for credit with permission of instructor. Credit will be granted for only one of ASIA 476 or ASIA 576.
In Person Learning
Tue
2:00 p.m. - 3:30 p.m.
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<tr>
<th>Course Code</th>
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<th>Days</th>
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<td>ASIA_V 490-H_021</td>
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<td>ASIA_V 491-002</td>
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<td>India and the Persianate World</td>
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<td>ASIA_V 495-001</td>
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<td>ASIA_V 500-A_017</td>
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<td>ASIA_V 508-C_017</td>
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<td>ASIA_V 514-B_026</td>
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<td>ASIA_V 516-028</td>
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<td>ASIA_V 517-025</td>
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<td>Chinese Media Studies: Theories and Histories</td>
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<td>ASIA_V 518-003</td>
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<td>ASIA_V 519-001</td>
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<td>ASIA_V 521-A_007</td>
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<td>ASIA_V 522-A_021</td>
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<td>ASIA_V 523-B_008</td>
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<td>Topics in Traditional Japanese Literature</td>
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<td>ASIA_V 525-023</td>
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<td>Japanese Cinema Studies: Theory and Practice</td>
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<td>ASIA_V 570-B_040</td>
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<td>ASIA_V 570-B_042</td>
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<td>ASIA_V 574-C_046</td>
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<td>ASIA_V 580-A_004</td>
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- **Seminar class designed to explore current scholarly debates in South Asian and Sinic Studies. May be repeated for credit with permission of instructor. Credit will be granted for only one of ASIA 474 or 574. Prerequisites: Restricted to students with 2nd-year standing or above.**
- **Focus changes from year to year. Restricted to fourth-year Asian Studies majors.**
- **This course is not eligible for Credit/D/Fail grading.**
- **Histories of Muslim Empires, spanning Iran, India and Central Asia, from 1000-1800 CE. Examined through the conceptual lens of the Persianate World with emphasis on Persianate culture and power in South Asia. Restricted to fourth-year Asian Studies majors.**
- **Histories of Muslim Empires, spanning Iran, India and Central Asia, from 1000-1800 CE. Examined through the conceptual lens of the Persianate World with emphasis on Persianate culture and power in South Asia. Restricted to fourth-year Asian Studies majors.**
- **The evolution of folklore (e.g. slang, songs, games, dance, foodways) in the everyday lives of immigrant and transnational Asian communities. Emphasis on Asian Canadian folklorists in Greater Vancouver through digital documentary media production and archival folklore research. Restricted to fourth-year Asian Studies majors. This course is not eligible for Credit/D/Fail grading.**
- **This course is not eligible for Credit/D/Fail grading.**
- **The mediation of folklore (e.g. slang, songs, games, dance, foodways) in the everyday lives of immigrant and transnational Asian communities. Emphasis on Asian Canadian folklorists in Greater Vancouver through digital documentary media production and archival folklore research.**
- **Critical engagement with different disciplinary approaches to the study of Asian popular cultures. This course is not eligible for Credit/D/Fail grading.**
- **This course is not eligible for Credit/D/Fail grading.**
- **Examines how South Asian pasts have been memorialized in writing, from medieval chronicles to the development of history as a modern academic discipline in the nineteenth century. Credit will be granted for only one of ASIA 474 or 574. This course is not eligible for Credit/D/Fail grading.**
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- **This course is not eligible for Credit/D/Fail grading.**
| ASIA_V_580-A_006 | ASIA_V | 580 | A | A_006 | Directed Readings | W2 | This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. | In Person Learning | Arranged | Arranged |
| ASIA_V_580-A_027 | ASIA_V | 580 | A | A_027 | Directed Readings | W1 | This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. | In Person Learning | Arranged | Arranged |
| ASIA_V_580-A_038 | ASIA_V | 580 | A | A_038 | Directed Readings | W3 | This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. | In Person Learning | Arranged | Arranged |
| ASIA_V_580-A_042 | ASIA_V | 580 | A | A_044 | Directed Readings | W1 | This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. | In Person Learning | Arranged | Arranged |
| ASIA_V_590-A_081 | ASIA_V | 590 | A | A_081 | Theories & Methods: Thinking with the Body, Embodied Cognition and the Study of Culture | W2 | Focus changes from year to year; please check the Department website for current course syllabus. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Fri | 1:00 p.m. - 4:00 p.m. |
| ASIA_V_590-B_004 | ASIA_V | 590 | B | B_004 | Theories & Methods: Thinking with the Body, Embodied Cognition and the Study of Culture | W2 | Focus changes from year to year; please check the Department website for current course syllabus. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Thu | 4:00 p.m. - 7:00 p.m. |
| ASIA_V_591-010 | ASIA_V | 591 | D10 | Critical Issues in Asian Studies | W1 | Introduction to essential skills for academic and professional work in Asian Studies. Outlines career trajectories in the PhD and beyond, including grant applications, cv-writing, and job searches. Required of all Asian Studies PhD students, normally in their first year. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Wed | 5:00 p.m. - 8:00 p.m. |
| ASIA_V_592-025 | ASIA_V | 592 | D25 | The Profession of Asian Studies | W2 | Introduction to essential skills for academic and professional work in Asian Studies. Outlines career trajectories in the PhD and beyond, including grant applications, cv-writing, and job searches. Required of all Asian Studies PhD students, normally in their first year. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Wed | 5:00 p.m. - 7:10 p.m. |
| ASIA_V_599-B_001 | ASIA_V | 599 | B | B_001 | Master's Thesis | W1-2 | This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. | In Person Learning | Arranged | Arranged |
| ASIA_V_599-B_002 | ASIA_V | 599 | B | B_002 | Master's Thesis | W2 | This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. | In Person Learning | Arranged | Arranged |
| ASIA_V_599-B_003 | ASIA_V | 599 | B | B_003 | Master's Thesis | W1 | This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. | In Person Learning | Arranged | Arranged |
| ASIA_V_699-001 | ASIA_V | 699 | D01 | Doctoral Dissertation | W1-2 | In Chinese, Japanese, Korean, or South Asian Studies only. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| ASIA_V_699-002 | ASIA_V | 699 | D02 | Doctoral Dissertation | W2 | In Chinese, Japanese, Korean, or South Asian Studies only. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| ASIA_V_699-101 | ASIA_V | 699 | 101 | Doctoral Dissertation | W2 | In Chinese, Japanese, Korean, or South Asian Studies only. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| ASIC_V_200-BA2 | ASIC_V | 200 | BA2 | Global Issues in the Arts and Sciences | W2 | Selected global issues explored through the methodologies and perspectives of both the physical and life sciences and the humanities and social sciences. [3-0-0] Prerequisite: Second-year standing in the Faculty of Arts or Faculty of Science. | In Person Learning | Arranged | Arranged |
| ASIC_V_220-001 | ASIC_V | 220 | D01 | Introduction to Sustainability | W2 | Sustainability examined from scientific, economic, and societal perspectives. [3-0-0] Prerequisite: Second-year standing. | In Person Learning | Tue Thu | 2:00 p.m. - 3:30 p.m. |
| ASIC_V_220-001 | ASIC_V | 220 | D01 | Indigenousities in Asia and Asian Diaspora | W1 | Introduction to Indigenous methodologies, contemporary cultures, and issues of Indigenous peoples in Asia and Asian diaspora, and Indigenous-Asia relations making in Canada. | Multi-access Learning | Tue Thu | 11:00 a.m. - 12:30 p.m. |
| ASIC_V_300-A_021 | ASIC_V | 300 | A | A_021 | Topics in Asian Studies Crossings | W2 | Transnational, transnational, or transregional approaches to Asian and/or diasporic Asian literature, history, visual culture, religion, or communities. Topics vary from section to section. Consult Department for current offerings. | Multi-access Learning | Arranged | Arranged |
| ASIC_V_300-B_011 | ASIC_V | 300 | B | B_011 | Topics in Asian Studies Crossings | W1 | Transnational, transnational, or transregional approaches to Asian and/or diasporic Asian literature, history, visual culture, religion, or communities. Topics vary from section to section. Consult Department for current offerings. | In Person Learning | Arranged | Arranged |
| ASIC_V_300-D_011 | ASIC_V | 300 | D | D_011 | Topics in Asian Studies Crossings | W1 | Transnational, transnational, or transregional approaches to Asian and/or diasporic Asian literature, history, visual culture, religion, or communities. Topics vary from section to section. Consult Department for current offerings. | In Person Learning | Fri | 10:00 a.m. - 1:00 p.m. |
| ASIC_V_300-E_011 | ASIC_V | 300 | E | E_011 | Topics in Asian Studies Crossings | W1 | Transnational, transnational, or transregional approaches to Asian and/or diasporic Asian literature, history, visual culture, religion, or communities. Topics vary from section to section. Consult Department for current offerings. | In Person Learning | Wed Fri | 11:00 a.m. - 12:30 p.m. |
| ASIC_V_315-021 | ASIC_V | 315 | 021 | Hong Kong Diaspora in Canada | W2 | Various social issues relating to Hong Kong diaspora in Canada, particularly pertaining to their long history of migration to Canada, their cultural developments and experiences, and their challenges and contributions in their new cultural environment. Recommended: Second-year standing or higher | In Person Learning | Mon Wed | 3:30 p.m. - 5:00 p.m. |
| AGL_V_100-001 | AGL_V | 100 | D01 | American Sign Language and Deaf Culture I | W1 | An introduction to understanding and producing American Sign Language. Emphasis core grammar and vocabulary, contextual use, connection between language and deaf culture. For students new to ASL. | In Person Learning | Mon Wed | 1:00 p.m. - 3:00 p.m. |
**ASTR 101-101**: Introduction to the Solar System

- **Time**: 10:00 a.m. - 12:00 p.m.
- **Days**: Tue Thu
- **Location**: In Person Learning
- **Description**: 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 103, and Principles of Mathematics 12.

**ASTR 101-11A**: Introduction to the Solar System

- **Time**: 1:00 p.m. - 3:00 p.m.
- **Days**: Tue Thu
- **Location**: In Person Learning
- **Description**: 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 103, and Principles of Mathematics 12.

**ASTR 101-11B**: Introduction to the Solar System

- **Time**: 1:00 p.m. - 3:00 p.m.
- **Days**: Tue Thu
- **Location**: In Person Learning
- **Description**: 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 103, and Principles of Mathematics 12.

**ASTR 101-11C**: Introduction to the Solar System

- **Time**: 1:00 p.m. - 3:00 p.m.
- **Days**: Tue Thu
- **Location**: In Person Learning
- **Description**: 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 103, and Principles of Mathematics 12.

**ASTR 101-11D**: Introduction to the Solar System

- **Time**: 1:00 p.m. - 3:00 p.m.
- **Days**: Tue Thu
- **Location**: In Person Learning
- **Description**: 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 103, and Principles of Mathematics 12.

**ASTR 102-201**: Introduction to Stars and Galaxies

- **Time**: 2:00 p.m. - 4:00 p.m.
- **Days**: Mon Fri
- **Location**: In Person Learning
- **Description**: Modern stellar and extragalactic astronomy. Stars and stellar evolution from protostars to black holes, galaxies and quasars; cosmology. ASTR 200/205 rather than ASTR 102 are recommended for students who intend to pursue studies in Astronomy. (3-2*-0) Prerequisite: One of PHYS 11, PHYS 12, PHYS 103, and Principles of Mathematics 12.

**ASTR 102-202**: Introduction to Stars and Galaxies

- **Time**: 2:00 p.m. - 4:00 p.m.
- **Days**: Mon Fri
- **Location**: In Person Learning
- **Description**: Modern stellar and extragalactic astronomy. Stars and stellar evolution from protostars to black holes, galaxies and quasars; cosmology. ASTR 200/205 rather than ASTR 102 are recommended for students who intend to pursue studies in Astronomy. (3-2*-0) Prerequisite: One of PHYS 11, PHYS 12, PHYS 103, and Principles of Mathematics 12.

**ASTR 102-203**: Introduction to Stars and Galaxies

- **Time**: 2:00 p.m. - 4:00 p.m.
- **Days**: Mon Fri
- **Location**: In Person Learning
- **Description**: Modern stellar and extragalactic astronomy. Stars and stellar evolution from protostars to black holes, galaxies and quasars; cosmology. ASTR 200/205 rather than ASTR 102 are recommended for students who intend to pursue studies in Astronomy. (3-2*-0) Prerequisite: One of PHYS 11, PHYS 12, PHYS 103, and Principles of Mathematics 12.

**ASTR 102-204**: Introduction to Stars and Galaxies

- **Time**: 2:00 p.m. - 4:00 p.m.
- **Days**: Mon Fri
- **Location**: In Person Learning
- **Description**: Modern stellar and extragalactic astronomy. Stars and stellar evolution from protostars to black holes, galaxies and quasars; cosmology. ASTR 200/205 rather than ASTR 102 are recommended for students who intend to pursue studies in Astronomy. (3-2*-0) Prerequisite: One of PHYS 11, PHYS 12, PHYS 103, and Principles of Mathematics 12.

**ASTR 102-205**: Introduction to Stars and Galaxies

- **Time**: 2:00 p.m. - 4:00 p.m.
- **Days**: Mon Fri
- **Location**: In Person Learning
- **Description**: Modern stellar and extragalactic astronomy. Stars and stellar evolution from protostars to black holes, galaxies and quasars; cosmology. ASTR 200/205 rather than ASTR 102 are recommended for students who intend to pursue studies in Astronomy. (3-2*-0) Prerequisite: One of PHYS 11, PHYS 12, PHYS 103, and Principles of Mathematics 12.

**ASTR 200-101**: Frontiers of Astrophysics

- **Time**: 1:00 p.m. - 3:00 p.m.
- **Days**: Wed
- **Location**: In Person Learning
- **Description**: 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 103, and Principles of Mathematics 12.

**ASTR 200-102**: Frontiers of Astrophysics

- **Time**: 1:00 p.m. - 3:00 p.m.
- **Days**: Wed
- **Location**: In Person Learning
- **Description**: 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 103, and Principles of Mathematics 12.

**ASTR 200-103**: Frontiers of Astrophysics

- **Time**: 1:00 p.m. - 3:00 p.m.
- **Days**: Wed
- **Location**: In Person Learning
- **Description**: 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 103, and Principles of Mathematics 12.

**American Sign Language and Deaf Culture I**

- **Time**: 9:00 a.m. - 11:00 a.m.
- **Days**: Mon
- **Location**: In Person Learning
- **Description**: An introduction to understanding and producing American Sign Language. Emphasizes core grammar and vocabulary, contextual use, connection between language and Deaf culture. For students-new to ASL. (3-2*-0)

**American Sign Language and Deaf Culture II**

- **Time**: 12:00 p.m. - 2:00 p.m.
- **Days**: Fri
- **Location**: In Person Learning
- **Description**: An introduction to understanding and producing American Sign Language. Emphasizes core grammar and vocabulary, contextual use, connection between language and Deaf culture. For students-new to ASL. (3-2*-0)

**American Sign Language and Deaf Culture III**

- **Time**: 1:00 p.m. - 3:00 p.m.
- **Days**: Wed
- **Location**: In Person Learning
- **Description**: Skills in using ASL in a range of social contexts. Training in grammar and vocabulary that builds fluency, and in using the language appropriately for meaningful interactions with members of the Deaf community. For students with basic ASL conversational ability. Prerequisite: ASL 100 or by placement. (3-2*-0)
Structure and kinematics of our galaxy. Spiral arms and dynamics of stars in spiral and elliptical galaxies. Galactic formations, evolution, dynamics, and groups. Active galaxies and quasars. This course is not eligible for Credit/D/Fail grading. [3-0-0] Preerequisite: ASTR 305 and one of PHYS 310, EOSC 211, CPSC 303. Corequisite: One of MATH 217, MATH 227, MATH 21T. In Person Learning Men Wed Fri 3:00 p.m. - 4:00 p.m.

An exploration of the structure and evolution of our galaxy. Not open to first year students and not for credit in the Faculty of Science and Applied Science. [3-0-0] In Person Learning Men Wed Fri 3:00 p.m. - 4:00 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 Faculty of Science and Applied Science. [3-0-0] In Person Learning Men Wed Fri 3:00 p.m. - 4:00 p.m.

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ASTR_V 506 A  A_101 High-Energy Astrophysics W1 This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

ASTR_V 507 A  A_101 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 514-101 ASTR_V 514 101 Observational Astronomy W1 This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

ASTR_V 510-101 ASTR_V 510 101 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 510-012 ASTR_V 510 202 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  T TOOL1 101 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

ASTR_V 549 T  T TOOL2 101 M Sc. Thesis W2 This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged

ASTR_V 649 101 ASTR_V 649 101 Doctoral Dissertation W1-2 In Person Learning Arranged Arranged

ASTR_V 649 101 ASTR_V 649 201 Doctoral Dissertation W2 In Person Learning Arranged Arranged

ASTU_V 300-100 ASTU_V 300 100 1st Year CAP Seminar W1-2 CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. Credit will be granted for only one of ASTU 100 or CAP 101. This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101. In Person Learning Arranged Arranged

ASTU_V 300-4-010 ASTU_V 300 410 1st Year CAP Seminar W1-2 CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. Credit will be granted for only one of ASTU 100 or CAP 101. This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101. In Person Learning Arranged Arranged

ASTU_V 300-4-020 ASTU_V 300 420 1st Year CAP Seminar W1-2 CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. Credit will be granted for only one of ASTU 100 or CAP 101. This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101. In Person Learning Arranged Arranged

ASTU_V 300-4-030 ASTU_V 300 430 1st Year CAP Seminar W1-2 CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. Credit will be granted for only one of ASTU 100 or CAP 101. This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101. In Person Learning Arranged Arranged

ASTU_V 300-4-040 ASTU_V 300 440 1st Year CAP Seminar W1-2 CAP seminar focused on writing and reading, including both literature and introduction to academic scholarship. Topics vary each year. Credit will be granted for only one of ASTU 100 or CAP 101. This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101. In Person Learning Arranged Arranged

ASTU_V 300-1-001 ASTU_V 300 100 1st Year CAP Seminar W1-2 This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101. In Person Learning Arranged Arranged

ASTU_V 300-1-002 ASTU_V 300 101 1st Year CAP Seminar W1-2 This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101. In Person Learning Arranged Arranged

ASTU_V 300-1-003 ASTU_V 300 101 1st Year CAP Seminar W1-2 This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101. In Person Learning Arranged Arranged

ASTU_V 300-1-004 ASTU_V 300 102 1st Year CAP Seminar W1-2 This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101. In Person Learning Arranged Arranged

ASTU_V 300-1-005 ASTU_V 300 102 1st Year CAP Seminar W1-2 This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101. In Person Learning Arranged Arranged

ASTU_V 300-1-006 ASTU_V 300 103 1st Year CAP Seminar W1-2 This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101. In Person Learning Arranged Arranged

ASTU_V 300-1-007 ASTU_V 300 104 1st Year CAP Seminar W1-2 This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101. In Person Learning Arranged Arranged

ASTU_V 300-1-008 ASTU_V 300 105 1st Year CAP Seminar W1-2 This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101. In Person Learning Arranged Arranged

ASTU_V 300-1-009 ASTU_V 300 106 1st Year CAP Seminar W1-2 This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101. In Person Learning Arranged Arranged

ASTU_V 300-1-010 ASTU_V 300 107 1st Year CAP Seminar W1-2 This course is not eligible for Credit/D/Fail grading. Equivalency: CAP 101. In Person Learning Arranged Arranged

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<td>ASTU 201-021</td>
<td>Canada, Japan and the Pacific: Cultural Studies</td>
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**Course Details**

- **ASTU V 100-1_L02**: 1st Year CAP Seminar - Focus 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.
- **ASTU V 100-1_L03**: 1st Year CAP Seminar - Focus 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.
- **ASTU V 100-1_L04**: 1st Year CAP Seminar - Focus 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.
- **ASTU V 100-M_M01**: 1st Year CAP Seminar - Focus 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.
- **ASTU V 100-M_M02**: 1st Year CAP Seminar - Focus 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.
- **ASTU V 100-M_M03**: 1st Year CAP Seminar - Focus 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.
- **ASTU V 100-M_M04**: 1st Year CAP Seminar - Focus 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.

**Course Descriptions**

- **Canada, Japan and the Pacific: Cultural Studies**
  - An interdisciplinary introduction to the cultures of Canada and Japan, and the interactions between them. Specific topics vary from year to year but will include themes such as constructing the past; nationalism; self-perceptions; cross-cultural perceptions; multiculturalism in Canada and Japan; images in architecture, film and literature; mythologies.

- **Canada, Japan and the Pacific: Cultural Studies**
  - An interdisciplinary introduction to the cultures of Canada and Japan, and the interactions between them. Specific topics vary from year to year but will include themes such as constructing the past; nationalism; self-perceptions; cross-cultural perceptions; multiculturalism in Canada and Japan; images in architecture, film and literature; mythologies.

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- **Canada, Japan and the Pacific: Political, Economic and Geographical Perspectives**
  - An interdisciplinary introduction to political, economic and geographical interactions between Japan and Canada, the links between these countries and other Pacific Rim nations, and the historical origins of these connections. Specific topics will vary from year to year, but will include themes such as economic integration in the Pacific region; the role of resource economies such as Canada’s; security relations in the Pacific; the role of Japanese investment in the Asia-Pacific region.

- **Canada, Japan and the Pacific: Political, Economic and Geographical Perspectives**
  - An interdisciplinary introduction to political, economic and geographical interactions between Japan and Canada, the links between these countries and other Pacific Rim nations, and the historical origins of these connections. Specific topics will vary from year to year, but will include themes such as economic integration in the Pacific region; the role of resource economies such as Canada’s; security relations in the Pacific; the role of Japanese investment in the Asia-Pacific region.
ASTU_V 302-026
302
304
Canada, Japan and the Pacific: Political, Economic, and Geographical Perspectives
W2

An interdisciplinary introduction to political, economic, and geographical interactions between Japan and Canada, the links between these countries and other Pacific Rim nations, and the historical origins of these connections. Specific topics will vary from year to year, but will include themes such as economic integration in the Pacific region; the role of resource economics such as Canada’s; security relations in the Pacific; the role of Japanese investment in the Asia-Pacific region. In-Person Learning
Mon
1:00 p.m. - 6:00 p.m.

ASTU_V 304-A, 026
304
A, A-026
Topics in Interdisciplinary Arts Studies
W1

Selected interdisciplinary topics in Arts studies. For upcoming offerings including course descriptions and possible enrollment restrictions, please see section information in the UBC course schedule. In-Person Learning
Arranged
Arranged

ASTU_V 304-R, 026
304
R, R-026
Topics in Interdisciplinary Arts Studies
W1

Selected interdisciplinary topics in Arts studies. For upcoming offerings including course descriptions and possible enrollment restrictions, please see section information in the UBC course schedule. In-Person Learning
Arranged
Arranged

ASTU_V 310-026
310
301
Co-operative Work Placement I
W1

Approved and supervised work experience with a public or private organization for a minimum of 12 weeks full-time. Orientation workshops. Final work term report required. Recommended pre-requisite: ASTU 311. This course is not eligible for Credit/D/Fail grading. Prerequisite: 6 credits first year English or Arts; 4 credits of science; 6 credits of literature; satisfaction of Faculty language requirement. In-Person Learning
Arranged
Arranged

ASTU_V 310-201
310
201
Co-operative Work Placement I
W1-2

Approved and supervised work experience with a public or private organization for a minimum of 12 weeks full-time. Orientation workshops. Final work term report required. Recommended pre-requisite: ASTU 311. This course is not eligible for Credit/D/Fail grading. Prerequisite: 6 credits first year English or Arts; 4 credits of science; 6 credits of literature; satisfaction of Faculty language requirement. In-Person Learning
Arranged
Arranged

ASTU_V 311-011
311
201
Co-operative Work Placement II
W1

Approved and supervised work experience with a public or private organization for a minimum of 12 weeks full-time. Final work term report required. Recommended pre-requisite: ASTU 311. This course is not eligible for Credit/D/Fail grading. In-Person Learning
Arranged
Arranged

ASTU_V 311-201
311
201
Co-operative Work Placement II
W1-2

Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term report required. Recommended pre-requisite: ASTU 311. This course is not eligible for Credit/D/Fail grading. In-Person Learning
Arranged
Arranged

ASTU_V 399-011
399
201
Special Topics: Power and Power
W2

Topics vary from year to year. Restricted to Faculty of Arts students. In-Person Learning
Tue Thu
12:00 p.m. - 2:00 p.m.

ASTU_V 400-D, 026
400
D, D-026
Interdisciplinary Studies in Arts
W2-1

For upper-division students in the Faculty of Arts. Topics announced annually. In-Person Learning
Arranged
Arranged

ASTU_V 401-D, 026
401
D, D-026
Special Topics in Arts Studies
W2

Selected topics offered by a distinguished visitor to the campus. For upcoming offerings including course descriptions and possible enrollment restrictions, please see section information in the UBC course schedule. In-Person Learning
Thu
10:00 a.m. - 1:00 p.m.

ASTU_V 402-101
402
101
Living Language: Science and Society
W1

Multidisciplinary course in which students, individually and in groups, examine, integrate and apply subject-specific knowledge through the lens of language and the framework of the language sciences, with a focus on themes of real-world importance. Prerequisite: Four-year standing or permission of the instructor. Equivalency: ASC402, FEST402, UFO 411, L10484, PSY402
Online Learning
Mon Wed
11:00 a.m. - 12:30 p.m.

ASTU_V 410-101
410
101
Co-operative Work Placement III
W1

Approved and supervised work experience with a public or private organization for a minimum of 12 weeks full-time. Final work term report recommended. Recommended pre-requisite: ASTU 310. This course is not eligible for Credit/D/Fail grading. In-Person Learning
Arranged
Arranged

ASTU_V 410-201
410
201
Co-operative Work Placement III
W1-2

Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term report recommended. Recommended pre-requisite: ASTU 310. This course is not eligible for Credit/D/Fail grading. In-Person Learning
Arranged
Arranged

ASTU_V 411-011
411
201
Co-operative Work Placement IV
W1-2

Optional extra work placement. Approved and supervised work experience with a public or private organization for a minimum of 16 weeks full-time. Final work term report recommended. Recommended pre-requisite: ASTU 410. This course is not eligible for Credit/D/Fail grading. In-Person Learning
Arranged
Arranged

ASTU_V 411-201
411
201
Co-operative Work Placement IV
W1-2

Optional extra work placement. Approved and supervised work experience with a public or private organization for a minimum of 16 weeks full-time. Final work term report recommended. Recommended pre-requisite: ASTU 410. This course is not eligible for Credit/D/Fail grading. In-Person Learning
Arranged
Arranged

ASTU_V 412-A, 011
412
A, A-011
Co-operative Work Placement V
W1

Optional extra work placement. Approved and supervised work experience with a public or private organization for a minimum of 16 weeks full-time. Final work term report recommended. Recommended pre-requisite: ASTU 411. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. In-Person Learning
Arranged
Arranged

ASTU_V 412-B, 021
412
B, B-021
Co-operative Work Placement V
W1-2

Optional extra work placement. Approved and supervised work experience with a public or private organization for a minimum of 16 weeks full-time. Final work term report recommended. The credit value for this course will be determined in consultation with the student prior to the registration. In-Person Learning
Arranged
Arranged

ASTU_V 460-002
460
002
No Knowledge is Neutral
W2

Capstone seminar in the research, theory and practice of knowledge production, mobilization, and contextualization, including issues of authority, expertise, and positionality. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to students in the Sciences Po UBC Dual Degree. In-Person Learning
Wed
12:00 p.m. - 3:00 p.m.

ASTU_V 501-011
501
301
Co-operative Work Placement I
W1

Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 13 weeks full-time. Final work term report required. Recommended pre-requisite: 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
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<td>Credit/D/Fail</td>
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<td>ASTU_V 611-101</td>
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<td>ATSC_V 113-101</td>
<td>Atmospheric Science for Sailing, Flying, and Snow Sports</td>
<td>W1</td>
<td>Credit/D/Fail</td>
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<td>ATSC_V 115-101</td>
<td>Meteorology of Storms</td>
<td>W1</td>
<td>Credit/D/Fail</td>
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<td>ATSC_V 201-101</td>
<td>Atmospheric Radiation and Remote Sensing</td>
<td>W1</td>
<td>Credit/D/Fail</td>
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<td>ATSC_V 301-101</td>
<td>Interdisciplinary Research and Professional Practice in Migration Studies</td>
<td>W1-2</td>
<td>Credit/D/Fail</td>
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Recommended pre-requisite: ASTU 610. This course is not eligible for Credit/D/Fail grading.

Restricted to Ph.D. degree students in departments with Ph.D. approved co-op programs.

Minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Pass/Fail.

Approved and supervised paid work experience with a non-profit, public or private organization for a minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Restricted to Master's degree students in departments with approved co-op programs. Pass/Fail. Recommended pre-requisite: ASTU 611. This course is not eligible for Credit/D/Fail grading.

Restricted to Ph.D. degree students in departments with Ph.D. approved co-op programs.

Minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Recommended pre-requisite: ASTU 611. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisite: ASTU 610. This course is not eligible for Credit/D/Fail grading.

Minimum of 12 weeks and/or 420 hours full-time. Reflective assignments required. Recommended pre-requisite: ASTU 612. This course is not eligible for Credit/D/Fail grading.

Master's degree students in departments with approved co-op programs. Pass/Fail. Recommended pre-requisite: ASTU 613. This course is not eligible for Credit/D/Fail grading.

Atmospheric-science principles elucidated by case studies applied to sailing, soaring, flying and snow sports. [3-0-0]

Atmospheric-science principles elucidated by case studies applied to sailing, soaring, flying and snow sports. [3-0-0]

Atmospheric-science principles elucidated by case studies applied to sailing, soaring, flying and snow sports. [3-0-0]

Characteristics and physical processes of thunderstorms, tornadoes, lightning, hail, hurricanes, blizzards, cyclones and other storms. Recommended pre-requisite: completion of first-year science. [3-0-0]

Energy transfer at infrared, visible, and microwave wavelengths. Analysis of satellite measurements of the atmospheric environment. [3-0-0]
ATSC_V 301-201  ATSC_V  301  201  Atmospheric Radiation and Remote Sensing  W2  Energy transfer at infrared, visible, and microwave wavelengths. Analysis of satellite measurements of the atmosphere and surface. [3-0-0] Prerequisite: One of PHYS 102, PHYS 108, PHYS 118, and familiarity with a programming language. In Person Learning  Mon Wed Fri  10:00 a.m. - 11:00 a.m.

ATSC_V 303-201  ATSC_V  303  201  Methods in Atmospheric Science  W2  An introduction to instrumentation used in monitoring the state of the atmosphere; a brief survey of methods of analysis of meteorological data. [2-2-0] Prerequisite: One of EOSC 211, CPSC 103, CPSC 110 and one of ATSC 201, GEOG 200, GEOG 300. In Person Learning  Mon Wed Fri  8:00 a.m. - 10:00 a.m.

ATSC_V 303-L2A  ATSC_V  303  L2A  Methods in Atmospheric Science  W2  An introduction to instrumentation used in monitoring the state of the atmosphere; a brief survey of methods of analysis of meteorological data. [2-2-0] Prerequisite: One of EOSC 211, CPSC 103, CPSC 110 and one of ATSC 201, GEOG 200, GEOG 300. In Person Learning  Fri  12:00 p.m. - 2:00 p.m.

ATSC_V 313-99A  ATSC_V  313  99A  Renewable Energy Meteorology  W1  The meteorology of solar and wind power. Atmospheric processes affecting renewable energy on global, regional & local weather scales. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 123 and one of PHYS 101, PHYS 107, PHYS 117, PHYS 115, PHYS 117 and one of ATSC 201, CPSC 103, CPSC 110, GEOG 200. Hybrid Learning  Arranged  Arranged

ATSC_V 313-99C  ATSC_V  313  99C  Renewable Energy Meteorology  W2  The meteorology of solar and wind power. Atmospheric processes affecting renewable energy on global, regional & local weather scales. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 123 and one of PHYS 101, PHYS 107, PHYS 117, PHYS 115, PHYS 117 and one of ATSC 201, CPSC 103, CPSC 110, GEOG 200. Hybrid Learning  Arranged  Arranged

ATSC_V 398-101  ATSC_V  398  101  Co-operative Work Placement I  W2  Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Winter Session (Term 2) in third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Atmospheric Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: ATSC 201 and one of GEOG 100, GEOG 300. In Person Learning  Arranged  Arranged

ATSC_V 398-201  ATSC_V  398  201  Co-operative Work Placement II  W2  Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Winter Session (Term 2) in third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Atmospheric Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: ATSC 201 and one of GEOG 100, GEOG 300. In Person Learning  Arranged  Arranged

ATSC_V 399-101  ATSC_V  399  101  Co-operative Work Placement II  W1  Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Winter Session (Terms 1 and 2) following third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Atmospheric Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: ATSC 201. In Person Learning  Arranged  Arranged

ATSC_V 399-201  ATSC_V  399  201  Co-operative Work Placement II  W2  Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Winter Session (Terms 1 and 2) following third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Atmospheric Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: ATSC 201. In Person Learning  Arranged  Arranged


ATSC_V 413-101  ATSC_V  413  101  Forest Fire Weather and Climate  W1  Synoptic and mesoscale meteorology and weather forecasting applied to wildfires. Effects of weather on forest behaviour, danger, smoke, climate and sustainability at the urban-forest interface. [2-2-0] Prerequisite: One of ATSC 201, GEOG 300. In Person Learning  Tue Thu  8:00 a.m. - 11:00 a.m.

ATSC_V 448-A_101  ATSC_V  448  A  A_101  Directed Studies  W1  Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the undergraduate advisor and of the supervising faculty member is required before registration. In Person Learning  Tue Thu  5:30 a.m. - 10:00 a.m.

ATSC_V 448-A_102  ATSC_V  448  A  A_102  Directed Studies  W1  Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the undergraduate advisor and of the supervising faculty member is required before registration. In Person Learning  Arranged  Arranged

ATSC_V 448-A_103  ATSC_V  448  A  A_103  Directed Studies  W1  Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the undergraduate advisor and of the supervising faculty member is required before registration. In Person Learning  Arranged  Arranged

ATSC_V 448-B_201  ATSC_V  448  B  B_201  Directed Studies  W2  Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the undergraduate advisor and of the supervising faculty member is required before registration. In Person Learning  Arranged  Arranged

ATSC_V 448-B_202  ATSC_V  448  B  B_202  Directed Studies  W2  Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the undergraduate advisor and of the supervising faculty member is required before registration. In Person Learning  Mon  2:00 p.m. - 4:00 p.m.

ATSC_V 448-C_001  ATSC_V  448  C  C_001  Directed Studies  W1  Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the undergraduate advisor and of the supervising faculty member is required before registration. In Person Learning  Arranged  Arranged

ATSC_V 448-101  ATSC_V  448  101  Directed Studies  W1  Investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the undergraduate advisor and of the supervising faculty member is required before registration. In Person Learning  Arranged  Arranged

ATSC_V 448-201  ATSC_V  448  201  Co-operative Work Placement III  W1  Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Winter Session (Term 2) following third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Atmospheric Science. This course is not eligible for Credit/D/Fail grading. Prerequisite: ATSC 201 and one of ATSC 103, GEOG 100, GEOG 300. In Person Learning  Arranged  Arranged

ATSC_V 449-001  ATSC_V  449  001  Honours Project  W1  Honours students must submit a graduating report based on a project undertaken with the approval of the Associate Chair of the Atmospheric Science Program. In Person Learning  Arranged  Arranged
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<th>Grading</th>
<th>Notes</th>
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<td>ATSC_V 500-101</td>
<td>Boundary Layer Meteorology</td>
<td>Restricted to students admitted to the M.Sc. Co-operative Education Program in Atmospheric Science.</td>
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<td>ATSC_V 548-B_001</td>
<td>Master's Graduation Essay</td>
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<td>AUDI_V 402-2W1</td>
<td>Neuroscience for Audiology and Speech-Language Pathology</td>
<td>[3-0-0] 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</td>
<td>Arranged.</td>
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<td>AUDI_V 402-9W1</td>
<td>Neuroscience for Audiology and Speech-Language Pathology</td>
<td>[3-0-0] 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</td>
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<td>AUDI_V 402-9RD</td>
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<td>AUDI_V 403-99D</td>
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<td>Phonological Development, Assessment and Intervention</td>
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<td>AUDI_V 522-001</td>
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<td>AUDI_V 524-001</td>
<td>Disorders of Speech Production</td>
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<td>AUDI_V 526-001</td>
<td>Acquired Language Disorders</td>
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<td>Aural Rehabilitation I</td>
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<td>AUDI_V 529-001</td>
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<td>AUDI_V 529-01</td>
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<td>AUDI_V 529-002</td>
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<td>AUDI_V 529-003</td>
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<td>AUDI_V 546-A</td>
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<td>AUDI_V 546-B</td>
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<td>AUDI_V 547-A</td>
<td>Directed Reading in Audiology and Speech Sciences</td>
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<td>AUDI_V 547-C</td>
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<td>M.Sc. Thesis</td>
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<td>AUDI_V 550-A</td>
<td>Advanced Topics in Audiology</td>
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<td>Advanced Topics in Audiology</td>
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<td>Issues in Professional Practice</td>
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<td>Amplification I</td>
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<td>AUDI_V 557</td>
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<td>Physiological Measurement of Auditory Function</td>
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<td>Practicum in Speech-Language Pathology for Audiology Majors</td>
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<td>Cochlear Implants: Audiological Assessment and Management Issues</td>
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<td>Audiology Practicum II</td>
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<td>Audiology Practicum II</td>
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<td>Audiology Practicum IV</td>
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<td>Case Studies in Phonological Intervention and Aural Rehabilitation</td>
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<td>Cognitive Processing and Acquired Language Disorders</td>
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<td>AUDI_V 575</td>
<td>Language Development and Disorders in the School Years</td>
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<td>Topics in Fluency Disorders</td>
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<td>AUDI_V 577</td>
<td>Advanced Studies in Acquired Speech and Swallowing Disorder</td>
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<td>Practicum in Audiology for Speech-Language Pathology Majors</td>
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<td>AUDI_V 581</td>
<td>Perceptual, Cognitive, and Social affective Issues in Communication Development, Assessment and Intervention</td>
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<td>AUDI_V 583</td>
<td>Advanced Speech Science</td>
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<td>AUDI_V 585</td>
<td>Language Development Across the Lifespan</td>
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<td>AUDI_V 586</td>
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<td>AUDI_V 590-C</td>
<td>Speech-Language Pathology Practicum I</td>
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<td>AUDI_V 594-C</td>
<td>Speech-Language Pathology Practicum IV</td>
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<td>Speech-Language Pathology Practicum IV</td>
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<tr>
<td>AUDI_V 610</td>
<td>Doctoral Dissertation</td>
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<td>AUDI_V 649</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
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This course is not eligible for Credit/D/Fail grading.

In Person Learning
Arranged

Examination of current research, roles of theories in understanding the relationship between speech sound production and comprehension/perception. This course is not eligible for Credit/D/Fail grading.
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<td>MBA Core</td>
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<td>Fri 4:00 p.m. - 6:00 p.m.</td>
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<td>Professional Residency I Leadership and Competitive Strategy</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>Professional Residency III Ethics, Sustainability and Managing Change</td>
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<td>BA_V 515-MM2</td>
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<td>BA_V 515-MM1</td>
<td>Fundamentals of Analytics and Tech</td>
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<td>BA_V 520-MM1</td>
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<td>BA_V</td>
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</table>

Online courses offered by schools within the Global Network for Advanced Management (GNAM). Students across the network collaborate virtually on team projects. Credit values for each course vary. Students may take more than one course during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Session</th>
<th>Day</th>
<th>Time</th>
<th>Credit</th>
<th>Program</th>
<th>Description</th>
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<tr>
<td>BA_V 531</td>
<td>W2</td>
<td>Mon</td>
<td>9:00 a.m. - 3:00 p.m.</td>
<td>Credit/D/Fail grading</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Students across the network collaborate virtually on team projects. Credit values for each course vary. Students may take more than one course during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BA_V 531_C</td>
<td>W1</td>
<td>Tue</td>
<td>9:00 a.m. - 3:00 p.m.</td>
<td>Credit/D/Fail grading</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Students across the network collaborate virtually on team projects. Credit values for each course vary. Students may take more than one course during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BA_V 531_B</td>
<td>W2</td>
<td>Wed</td>
<td>9:00 a.m. - 3:00 p.m.</td>
<td>Credit/D/Fail grading</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Students across the network collaborate virtually on team projects. Credit values for each course vary. Students may take more than one course during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BA_V 532</td>
<td>W1</td>
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<td>9:00 a.m. - 3:00 p.m.</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Students across the network collaborate virtually on team projects. Credit values for each course vary. Students may take more than one course during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>BA_V 532_A</td>
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<td>Students across the network collaborate virtually on team projects. Credit values for each course vary. Students may take more than one course during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>BA_V 551</td>
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<td>Students across the network collaborate virtually on team projects. Credit values for each course vary. Students may take more than one course during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BA_V 550</td>
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<td>Mon</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Students across the network collaborate virtually on team projects. Credit values for each course vary. Students may take more than one course during their MBA program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>RA-V 541-ER1</td>
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<td>8:30 a.m. - 4:00 p.m.</td>
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<td>RA-V 580-B_001</td>
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<td>8:00 a.m. - 10:00 a.m.</td>
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<td>RA-V 580-B_002</td>
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<td>10:00 a.m. - 12:00 p.m.</td>
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<td>RA-V 551-MM1</td>
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<td>RA-V 551-824</td>
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<td>RA-V 550-MUC</td>
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<td>BABS-V 502-BA2</td>
<td>Mon Wed</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<td>BABS-V 502-BA1</td>
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<td>3:00 p.m. - 4:00 p.m.</td>
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</table>

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

Restricted to students in one of: E.M.B.A., M.B.A., J.D./M.B.A., M.M., or M.B.A./M.A.A. This course is not eligible for Credit/D/Fail grading.

Same as HCEC 502; credit will not be given for both. This course is not eligible for Credit/D/Fail grading.

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Topics in Business Administration

Leadership Development

Topics in Business Administration

Topics in Business Administration

Topics in Business Administration

Topics in Business Administration

Topics in Business Administration

Forecasting and Time Series Prediction

Forecasting and Time Series Prediction

Forecasting and Time Series Prediction

Topics in Accounting

Foundations in Accounting II

Foundations in Accounting II

Intermediate Managerial Accounting: Decision Making and Performance Evaluation

Financial Statement Analysis I

In Person Learning

In Person Learning

In Person Learning

In Person Learning

In Person Learning

In Person Learning

In Person Learning
<table>
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<th>Course Code</th>
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<tr>
<td>BAEN_V 509-001</td>
<td>Applied Methods in Technology Start-ups at CDL</td>
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<td>BAEN_V 540-101</td>
<td>Strategy &amp; Innovation</td>
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<td>BAEN_V 549-001</td>
<td>Innovation and Sustainability</td>
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<td>BAEN_V 549-823</td>
<td>Innovation and Sustainability</td>
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<td>BAEN_V 549-MUC</td>
<td>Innovation and Sustainability</td>
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<td>BAEN_V 550-001</td>
<td>Fundamentals in Entrepreneurship</td>
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<td>BAEN_V 550-301</td>
<td>Fundamentals in Entrepreneurship</td>
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<td>BAEN_V 550-MMC</td>
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<td>BAFI_V 500-MM1</td>
<td>Introductory Finance</td>
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<td>BAFI_V 500-MUC</td>
<td>Introductory Finance</td>
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<td>BAFI_V 501-001</td>
<td>Banking and Capital Markets</td>
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<td>BAFI_V 502-001</td>
<td>Corporate Finance</td>
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<td>BAFI_V</td>
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<td>BAFI_V</td>
<td>Investment Theory and Asset Pricing</td>
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<td>BAFI_V</td>
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<td>Course Code</td>
<td>Course Name</td>
<td>Days</td>
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<td>Grading</td>
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<tr>
<td>508-MUC</td>
<td>Managing Change</td>
<td>Mon, Wed</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>MUC 550</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>508-BA2</td>
<td>Organizational Behavior</td>
<td>Mon, Wed</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning B_302</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Databases and data management, data design for business analytics; data access using structured query language; design interfaces facilitating user-centric access and queries. This course is not eligible for Credit/D/Fail grading.</td>
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</tr>
<tr>
<td>507-MM1</td>
<td>Two-Party Negotiations</td>
<td>Tue, Thu</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning MM1</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Two-Party Negotiations</td>
<td></td>
</tr>
<tr>
<td>508-BA1</td>
<td>Data Management for Business Analytics</td>
<td>Mon, Wed</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning BA1</td>
<td>In Person Learning</td>
<td>Programming for business analytics; problem definitions, software design, program design, and system implementation; development of systems to implement common business applications. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>508-MM1</td>
<td>Data Management for Business Analytics</td>
<td>Tue, Thu</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning MM1</td>
<td>In Person Learning</td>
<td>Programming for business analytics; problem definitions, software design, program design, and system implementation; development of systems to implement common business applications. This course is not eligible for Credit/D/Fail grading.</td>
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</tr>
<tr>
<td>508-BA2</td>
<td>Business Analytics Programming</td>
<td>Mon, Wed</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning BA2</td>
<td>In Person Learning</td>
<td>Programming for business analytics; problem definitions, software design, program design, and system implementation; development of systems to implement common business applications. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>508-MM2</td>
<td>Business Analytics Programming</td>
<td>Tue, Thu</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning MM2</td>
<td>In Person Learning</td>
<td>Programming for business analytics; problem definitions, software design, program design, and system implementation; development of systems to implement common business applications. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>508-MM1</td>
<td>Business Analytics Programming</td>
<td>Tue, Thu</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning MM1</td>
<td>In Person Learning</td>
<td>Programming for business analytics; problem definitions, software design, program design, and system implementation; development of systems to implement common business applications. This course is not eligible for Credit/D/Fail grading.</td>
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<td>CRN</td>
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<tr>
<td>503</td>
<td>Commercial Law</td>
<td>Mon Wed Thu Fri</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>509</td>
<td>Data Visualization</td>
<td>Tue Thu</td>
<td>8:00 a.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>515</td>
<td>Integration Marketing Communication</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 4:00 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>518</td>
<td>Topics in Information Technology Management</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>580</td>
<td>Business Development</td>
<td>Mon Tue Wed Thu Fri</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>510</td>
<td>New Product Development</td>
<td>Mon Tue Wed Thu Fri</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>504</td>
<td>Study of business development as a tool for creating long-term value from clients, markets and relationships.</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>508</td>
<td>Business Applications of Machine Learning</td>
<td>W2</td>
<td>2:00 p.m. - 4:00 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>518</td>
<td>Business Applications of Machine Learning</td>
<td>W2</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Program</td>
<td>Section</td>
<td>Description</td>
<td>Grade Option</td>
<td>In Person Learning</td>
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<tr>
<td>BAMA_V 505-MM1</td>
<td>Business Development</td>
<td>W2</td>
<td></td>
<td>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.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>BAMA_V 506-001</td>
<td>Consumer Behaviour</td>
<td>W2</td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>4:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>BAMA_V 506-823</td>
<td>Consumer Behaviour</td>
<td>W1</td>
<td></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>BAMA_V 506-MUC</td>
<td>Consumer Behaviour</td>
<td>W2</td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>4:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>BAMA_V 508-001</td>
<td>Marketing Research</td>
<td>W2</td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>BAMA_V 508-823</td>
<td>Marketing Research</td>
<td>W2</td>
<td></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>BAMA_V 508-MM1</td>
<td>Marketing Research</td>
<td>W2</td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>BAMA_V 513-001</td>
<td>Digital Marketing</td>
<td>W1</td>
<td></td>
<td>Restricted to students in one of the following programs: M.B.A., J.D, M.A., M.A.A.P.S., M.Sc.B., M.M., M.B.A., or a Ph.D. with a BADM specialization. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>6:00 p.m. - 9:30 p.m.</td>
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<tr>
<td>BAMA_V 514-001</td>
<td>Brand Management</td>
<td>W2</td>
<td></td>
<td>Restricted to students in one of the following programs: M.B.A., J.D, M.A., M.A.A.P.S., M.Sc.B., M.M., M.B.A., or a Ph.D. with a BADM specialization. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>10:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>BAMA_V 514-823</td>
<td>Brand Management</td>
<td>W2</td>
<td></td>
<td>Restricted to students in one of the following programs: M.B.A., J.D, M.A., M.A.A.P.S., M.Sc.B., M.M., M.B.A., or a Ph.D. with a BADM specialization. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>BAMA_V 514-MUC</td>
<td>Brand Management</td>
<td>W2</td>
<td></td>
<td>Restricted to students in one of the following programs: M.B.A., J.D, M.A., M.A.A.P.S., M.Sc.B., M.M., M.B.A., or a Ph.D. with a BADM specialization. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>10:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>BAMA_V 517-BA1</td>
<td>Data Driven Marketing</td>
<td>W1</td>
<td></td>
<td>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.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>BAMA_V 517-BA2</td>
<td>Data Driven Marketing</td>
<td>W1</td>
<td></td>
<td>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.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>4:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>BAMA_V 517-MUC</td>
<td>Data Driven Marketing</td>
<td>W1</td>
<td></td>
<td>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.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>BAMA_V 519-101</td>
<td>Building Brands with Purpose</td>
<td>W1</td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>8:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>BAMA_V 520-001</td>
<td>Customer Analytics</td>
<td>W1</td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>10:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>BAMA_V 520-BA1</td>
<td>Customer Analytics</td>
<td>W2</td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>10:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>BAMA_V 520-BA2</td>
<td>Customer Analytics</td>
<td>W2</td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>BAMA_V 520-MUC</td>
<td>Customer Analytics</td>
<td>W1</td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>10:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>BAMA_V 550-001</td>
<td>Marketing</td>
<td>W2</td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>4:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>BAMA_V 550-002</td>
<td>Marketing</td>
<td>W2</td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>4:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>BAMA_V 550-301</td>
<td>Marketing</td>
<td>W1</td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Sat</td>
<td>8:30 a.m. - 10:00 p.m.</td>
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<td>Course Code</td>
<td>Course Name</td>
<td>Credits</td>
<td>Schedule</td>
<td>Delivery Type</td>
<td>Notes</td>
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<td>BAMA_V 580-B24</td>
<td>Marketing</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMA_V 580-MM1</td>
<td>Marketing</td>
<td>5</td>
<td>Tue Thu</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMA_V 580-MUC</td>
<td>Marketing</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMA_V 580-A_BA1</td>
<td>Topics in Marketing</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMA_V 580-A_BA2</td>
<td>Topics in Marketing</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMA_V 580-B_001</td>
<td>Topics in Marketing</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMA_V 580-B_MUC</td>
<td>Topics in Marketing</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMA_V 580-C_001</td>
<td>Topics in Marketing</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMA_V 580-C_MUC</td>
<td>Topics in Marketing</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMA_V 580-D_001</td>
<td>Topics in Marketing</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 503-BA1</td>
<td>Simulation Modelling</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 503-BA2</td>
<td>Simulation Modelling</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 503-BA3</td>
<td>Simulation Modelling</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 506-BA1</td>
<td>Optimal Decision Making</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 506-BA2</td>
<td>Optimal Decision Making</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 506-MUC</td>
<td>Optimal Decision Making</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 506-SMB</td>
<td>Optimal Decision Making</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 506-BA1</td>
<td>Optimal Decision Making</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 506-BA2</td>
<td>Optimal Decision Making</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 506-MUC</td>
<td>Optimal Decision Making</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
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<tr>
<td>BAMS_V 506-SMB</td>
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<td>5</td>
<td>Mon Wed</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 508-BA1</td>
<td>Optimal Decision Making</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 508-BA2</td>
<td>Optimal Decision Making</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 517-BA1</td>
<td>Decision Analysis Under Uncertainty</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 517-BA2</td>
<td>Decision Analysis Under Uncertainty</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 517-BA3</td>
<td>Decision Analysis Under Uncertainty</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 521-BA1</td>
<td>Analytics Leadership</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 521-BA2</td>
<td>Analytics Leadership</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BAMS_V 523-001</td>
<td>Managerial Decisions Modelling and Analytics</td>
<td>5</td>
<td>Mon Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>W1</td>
<td>W2</td>
<td>Description</td>
<td>Grading</td>
<td>In Person Learning</td>
<td>Time</td>
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<tr>
<td>BAPA_V 550-001</td>
<td>Managerial Economics I</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>BAPA_V 550-002</td>
<td>Managerial Economics I</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>BAPA_V 550-24</td>
<td>Managerial Economics I</td>
<td>WS</td>
<td>WS</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>BAPA_V 550-MM1</td>
<td>Managerial Economics I</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>8:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>BAPA_V 550-MUC</td>
<td>Managerial Economics I</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>8:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>BAPA_V 550-SFT</td>
<td>Managerial Economics I</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>BAPA_V 560-300</td>
<td>Foundations of Managerial and Business Economics</td>
<td>WS</td>
<td>WS</td>
<td>Framework for analyzing economic and managerial problems, fundamental market forces of supply and demand, and the drivers of firms' production and pricing choices. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>See [alternate weeks]</td>
<td>8:30 a.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>BASC_V 500-001</td>
<td>Process Fundamentals</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>4:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>BASC_V 500-301</td>
<td>Process Fundamentals</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Sat [alternate weeks]</td>
<td>8:30 a.m. - 4:00 p.m.</td>
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<tr>
<td>BASC_V 500-A_001</td>
<td>Process Fundamentals</td>
<td>WS</td>
<td>WS</td>
<td>Topics in Policy Analysis</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>4:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>BASC_V 523-001</td>
<td>Supply Chain Management</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>BASC_V 523-302</td>
<td>Supply Chain Management</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Sat [alternate weeks]</td>
<td>8:30 a.m. - 4:00 p.m.</td>
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<tr>
<td>BASC_V 523-BA1</td>
<td>Supply Chain Management</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>BASC_V 523-BA2</td>
<td>Supply Chain Management</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>BASC_V 523-DD1</td>
<td>Supply Chain Management</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</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>BASC_V 523-DD2</td>
<td>Supply Chain Management</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>BASC_V 523-MM1</td>
<td>Supply Chain Management</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>8:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>BASC_V 523-MUC</td>
<td>Supply Chain Management</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>8:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>BASC_V 524-001</td>
<td>Supply Chain Analytics</td>
<td>WS</td>
<td>WS</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<td>Course Code</td>
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<td>W2</td>
<td>Description</td>
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<tr>
<td>BASC_V 524-MUC</td>
<td>Supply Chain Analytics</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning.</td>
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<tr>
<td>BASC_V 550-001</td>
<td>Operations</td>
<td>W1</td>
<td>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>BASC_V 550-002</td>
<td>Operations</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Tue Thu 2:00 p.m. – 4:00 p.m.</td>
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<tr>
<td>BASC_V 550-101</td>
<td>Operations</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Mon Wed 5:00 p.m. – 7:00 p.m.</td>
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<tr>
<td>BASC_V 550-300</td>
<td>Operations</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Sat [Alternate weeks] 8:30 a.m. – 4:00 p.m.</td>
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<tr>
<td>BASC_V 550-304</td>
<td>Operations</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Arranged.</td>
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<tr>
<td>BASC_V 550-001</td>
<td>Operations</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Arranged.</td>
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<tr>
<td>BASC_V 550-002</td>
<td>Operations</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Mon Wed 8:00 a.m. – 10:00 a.m.</td>
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<tr>
<td>BASC_V 550-MM1</td>
<td>Operations</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Mon Wed 10:00 a.m. – 12:00 p.m.</td>
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<tr>
<td>BASC_V 550-MUC</td>
<td>Operations</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Fri 10:00 a.m. – 12:00 p.m.</td>
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<tr>
<td>BASM_V 501-001</td>
<td>Business Strategy</td>
<td>W2</td>
<td>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>BASM_V 501-024</td>
<td>Business Strategy</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Arranged.</td>
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<tr>
<td>BASM_V 502-001</td>
<td>Corporate Strategy</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Mon Wed 10:00 a.m. – 12:00 p.m.</td>
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<tr>
<td>BASM_V 502-023</td>
<td>Corporate Strategy</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Arranged.</td>
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<tr>
<td>BASM_V 502-MM1</td>
<td>Corporate Strategy</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Fri 10:00 a.m. – 12:00 p.m.</td>
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<tr>
<td>BASM_V 502-MM1</td>
<td>Corporate Strategy</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Fri 10:00 a.m. – 12:00 p.m.</td>
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<tr>
<td>BASM_V 510-001</td>
<td>Consulting Simulation</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Fri 1:30 p.m. – 9:00 p.m.</td>
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<tr>
<td>BASM_V 514-301</td>
<td>Strategy in Organizations</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Sat [Alternative weeks] 8:30 a.m. – 4:00 p.m.</td>
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<tr>
<td>BASM_V 516-001</td>
<td>Economics and Strategy of Innovation</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Mon 6:00 p.m. – 9:30 p.m.</td>
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<tr>
<td>BASM_V 516-MM1</td>
<td>Economics and Strategy of Innovation</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Mon 6:00 p.m. – 9:30 p.m.</td>
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<tr>
<td>BASM_V 523-001</td>
<td>Management Consulting and Corporate Decision Support</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning.</td>
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<tr>
<td>BASM_V 523-MM1</td>
<td>Management Consulting and Corporate Decision Support</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning.</td>
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<tr>
<td>BASM_V 550-MM1</td>
<td>Strategic Management</td>
<td>W2</td>
<td>Not available to MBA students. This course is not eligible for Credit/D/Fail grading. In Person Learning. Mon Wed 10:00 a.m. – 12:30 p.m.</td>
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<tr>
<td>BAUL_V 500-001</td>
<td>Real Estate Markets</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning. Mon Wed 8:00 a.m. – 10:00 a.m.</td>
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This course is not eligible for Credit/D/Fail grading.

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.

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

Introduction to the production, use, and attributes of renewable products and energy derived from biomass materials. Sustainability paradigms related to the bioeconomy; potential environmental and socio-political impacts associated with bio-based technologies and transitions to sustainable economies. [3-0-0] Prerequisite: CHEM 121.

Study of occurrence, synthesis, derivatization, physical properties, processing, and application of bio-based polymers from biomass. Manufacturing processes and uses of bio-based products are examined. [3-0-0] Prerequisite: One of CHEM 203, CHEM 233.

Laboratory modules for bioeconomy technologies; plant breeding, deconstruction, fermentation, and applied biotechnology. [1-3-0] Prerequisite: BEST 200 and BEST 201.

Laboratory modules for bioeconomy technologies; plant breeding, deconstruction, fermentation, and applied biotechnology. [1-3-0] Prerequisite: BEST 200 and BEST 201.

Laboratory modules for bioeconomy technologies; plant breeding, deconstruction, fermentation, and applied biotechnology. [1-3-0] Prerequisite: BEST 200 and BEST 201.

Laboratory modules for bioeconomy technologies; plant breeding, deconstruction, fermentation, and applied biotechnology. [1-3-0] Prerequisite: BEST 200 and BEST 201.

Laboratory modules for bioeconomy technologies; plant breeding, deconstruction, fermentation, and applied biotechnology. [1-3-0] Prerequisite: BEST 200 and BEST 201.

Laboratory modules for bioeconomy technologies; plant breeding, deconstruction, fermentation, and applied biotechnology. [1-3-0] Prerequisite: BEST 200 and BEST 201.

Global overview of land use management and planning, with a focus on principles and practice. [3-0-0] Prerequisite: BEST 201.

Introduction to plant biology, with special emphasis on growth and development, highlighting the biological mechanisms of radiation energy capture, and water and nutrient acquisition in the production of plant biomass. [3-0-0] Prerequisite: One of BIOL 112, BIOL 121.

Provides a foundation in managed ecosystems and community ecology. Includes material on forest ecology and agricultural ecosystems as managed environments. [3-0-0] Prerequisite: BEST 201 and one of BIOL 112, BIOL 121.

Provides a foundation in managed ecosystems and community ecology. Includes material on forest ecology and agricultural ecosystems as managed environments. [3-0-0] Prerequisite: BEST 201 and one of BIOL 112, BIOL 121.

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<th>Course Title</th>
<th>Units</th>
<th>Description</th>
<th>Prerequisite(s)</th>
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<td>BIOC 202-001</td>
<td>Introduction to proteins and enzymes, carbohydrate metabolism, and glucose homeostasis. The course emphasis is on human biochemistry and it is designed for students going into health science fields. Credit will be granted for only one of BIOC 202, BIOC 203 or BIOC 204.</td>
<td>3-0-0</td>
<td>[3-0-0] Prerequisite: One of ECON 101, FRST 101.</td>
<td>Understanding key issues for carbon management, protocols for carbon accounting and methodologies for emissions inventories and carbon rating. Economics and business response to climate change are examined. [3-0-2] Prerequisite: One of ECON 101, FRST 101.</td>
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<td>BIOC 203-001</td>
<td>Integrated Strategies for Bioproduct Innovation</td>
<td>3-0-0</td>
<td>Project-based course on development of biocomposite product, demonstration of out-of-Ace thinking, service learning and framework. Restricted to students in the Forest Bioeconomy Sciences and Technology program. [2-3-0] Prerequisite: Fourth year standing in Forest Bioeconomy Sciences and Technology.</td>
<td>Understanding issues in carbon management, protocols for carbon accounting and methodologies for emissions inventories and carbon rating. Economics and business response to climate change are examined. [3-0-2] Prerequisite: One of ECON 101, FRST 101.</td>
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<td>Credits</td>
<td>Description</td>
<td>Corequisites</td>
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<td>BIOC 203-001</td>
<td>Biochemistry Laboratory</td>
<td>3-0-0</td>
<td>Techniques by which the chemical and physical properties of fundamental components of the cell are studied. (0-3-1) Corequisite: One of BIOC 301, BIOC 302, BIOC 303.</td>
<td>In Person Learning Arranged</td>
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<td>BIOC 302-002</td>
<td>Biochemistry Laboratory</td>
<td>3-0-0</td>
<td>Techniques by which the chemical and physical properties of fundamental components of the cell are studied. (0-3-1) Corequisite: One of BIOC 301, BIOC 302, BIOC 303.</td>
<td>In Person Learning Arranged</td>
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<td>BIOC 303-001</td>
<td>Biochemistry Laboratory</td>
<td>3-0-0</td>
<td>Techniques by which the chemical and physical properties of fundamental components of the cell are studied. (0-3-1) Corequisite: One of BIOC 301, BIOC 302, BIOC 303.</td>
<td>In Person Learning Arranged</td>
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<td>BIOC 304-001</td>
<td>Biochemistry Laboratory</td>
<td>3-0-0</td>
<td>Techniques by which the chemical and physical properties of fundamental components of the cell are studied. (0-3-1) Corequisite: One of BIOC 301, BIOC 302, BIOC 303.</td>
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<td>BIOC 305-001</td>
<td>Biochemistry Laboratory</td>
<td>3-0-0</td>
<td>Techniques by which the chemical and physical properties of fundamental components of the cell are studied. (0-3-1) Corequisite: One of BIOC 301, BIOC 302, BIOC 303.</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>BIOC 306-001</td>
<td>Biochemistry Laboratory</td>
<td>3-0-0</td>
<td>Techniques by which the chemical and physical properties of fundamental components of the cell are studied. (0-3-1) Corequisite: One of BIOC 301, BIOC 302, BIOC 303.</td>
<td>In Person Learning Arranged</td>
</tr>
</tbody>
</table>

**General Biochemistry**

- **Fundamentals of Biochemistry**
  - W2: Amino acids and proteins. Enzymes and enzymology. Human metabolic pathways. Structure, function, and metabolism of carbohydrates including glucose storage and gluconeogenesis. Restricted to students in Biochemistry specializations. Credit will be granted for only one of BIOC 302, BIOC 303 or BIOC 301. (3-0-0) Prerequisite: BIOC 201 and one of CHEM 203, CHEM 223. Corequisite: CHEM 213.

- **Biochemistry Laboratory**
  - W1-2: Techniques by which the chemical and physical properties of fundamental components of the cell are studied. (0-3-1) Corequisite: One of BIOC 301, BIOC 302, BIOC 303. In Person Learning: Tue W2: 10:00 a.m. - 11:30 a.m.

- **General Biochemistry**
  - W2: Amino acids and proteins. Enzymes and enzymology. Human metabolic pathways. Structure, function, and metabolism of carbohydrates including glucose storage and gluconeogenesis. Restricted to students in Biochemistry specializations. Credit will be granted for only one of BIOC 302, BIOC 303 or BIOC 301. (3-0-0) Prerequisite: BIOC 201 and one of CHEM 203, CHEM 223. Corequisite: CHEM 213.

- **Biochemistry Laboratory**
  - W1-2: Techniques by which the chemical and physical properties of fundamental components of the cell are studied. (0-3-1) Corequisite: One of BIOC 301, BIOC 302, BIOC 303. In Person Learning: Tue W2: 10:00 a.m. - 11:30 a.m.

- **Fundamentals of Biochemistry**
  - W2: Amino acids and proteins. Enzymes and enzymology. Human metabolic pathways. Structure, function, and metabolism of carbohydrates including glucose storage and gluconeogenesis. Restricted to students in Biochemistry specializations. Credit will be granted for only one of BIOC 302, BIOC 303 or BIOC 301. (3-0-0) Prerequisite: BIOC 201 and one of CHEM 203, CHEM 223. Corequisite: CHEM 213.

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  - W1-2: Techniques by which the chemical and physical properties of fundamental components of the cell are studied. (0-3-1) Corequisite: One of BIOC 301, BIOC 302, BIOC 303. In Person Learning: Tue W2: 10:00 a.m. - 11:30 a.m.

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  - W1-2: Techniques by which the chemical and physical properties of fundamental components of the cell are studied. (0-3-1) Corequisite: One of BIOC 301, BIOC 302, BIOC 303. In Person Learning: Tue W2: 10:00 a.m. - 11:30 a.m.
Nucleic Acids: Structure and Function

398 610 Internship Work Placement I W1
Approved and supervised technical work experience in an industrial or academic laboratory for three or four months. Technical report required. Restricted to students admitted to the Internship Program in Biochemistry and Molecular Biology. This course is not eligible for Credit/D/fail grading. Prerequisite: Completion of academic third year in Biochemistry major or honours program is required. In Person-Learning  Men  8:00 a.m. - 9:00 a.m.

398 615 Internship Work Placement II W2
Approved and supervised technical work experience in an industrial or academic laboratory for three or four months. Technical report required. Restricted to students admitted to the Internship Program in Biochemistry and Molecular Biology. This course is not eligible for Credit/D/fail grading. Prerequisite: Completion of academic third year in Biochemistry major or honours program is required. In Person-Learning  Men  7:00 a.m. - 7:30 a.m.

399 610 Internship Work Placement II W1
Approved and supervised technical work experience in an industrial or academic research setting for three or four months. Technical report required. Restricted to students admitted to the Internship Program in Biochemistry and Molecular Biology. This course is not eligible for Credit/D/fail grading. Prerequisite: BIOL 402B. In Person-Learning  Men  8:00 a.m. - 9:00 a.m.

399 615 Internship Work Placement II W2
Structured components of proteins, classification by primary, secondary and tertiary structure, protein chemistry and purification, peptide and protein synthesis by chemical means and three-dimensional structure determination using X-ray diffraction and NMR. [3-0-0] Prerequisite: One of BIOL 302, BIOL 502, BIOL 505, BIOT 380. A minimum standing of 65% is recommended in these courses. In Person-Learning  Men/W 4:00 p.m. - 5:00 p.m.

403 602 T01 Proteins: Structure and Function W1-2 Structural components of proteins, classification by primary, secondary and tertiary structure, protein chemistry and purification, peptide and protein synthesis by chemical means and three-dimensional structure determination using X-ray diffraction and NMR. [3-0-0] Prerequisite: One of BIOL 302, BIOL 502, BIOL 505, BIOT 380. A minimum standing of 65% is recommended in these courses. In Person-Learning  Fri  2:00 p.m. - 3:00 p.m.

403 602 T02 Proteins: Structure and Function W1-2 Structural components of proteins, classification by primary, secondary and tertiary structure, protein chemistry and purification, peptide and protein synthesis by chemical means and three-dimensional structure determination using X-ray diffraction and NMR. [3-0-0] Prerequisite: One of BIOL 302, BIOL 502, BIOL 505, BIOT 380. A minimum standing of 65% is recommended in these courses. In Person-Learning  Fri  8:00 a.m. - 9:00 a.m.

403 603 T01 Proteins: Structure and Function W1-2 Structural components of proteins, classification by primary, secondary and tertiary structure, protein chemistry and purification, peptide and protein synthesis by chemical means and three-dimensional structure determination using X-ray diffraction and NMR. [3-0-0] Prerequisite: One of BIOL 302, BIOL 502, BIOL 505, BIOT 380. A minimum standing of 65% is recommended in these courses. Arranged  Arranged

404 604 Proteins: Structure and Function W2 Theory and application of classical and emerging technologies in biochemical research. Emphasis on using primary literature and oral presentation skills. Restricted to Honours students in Biochemistry or others with permission of the instructor. [1-0; 2-0] In Person-Learning  Mon-F  12:00 p.m. - 1:00 p.m.

404 604-001 Biochemical Methods W2 Theory and application of classical and emerging technologies in biochemical research. Emphasis on using primary literature and oral presentation skills. Restricted to Honours students in Biochemistry or others with permission of the instructor. [1-0; 2-0] Arranged  Arranged

410 601 Nucleic Acids: Structure and Function W1 Chemical, physical and biological properties of nucleic acids and their role in replication, transcription, translation and regulation of expression of genetic material. Credit will be granted for only one of BIOC 310, BIOC 510. [3-0-0] Prerequisite: Either (a) all of BIOC 303, BIOL 335 or (b) BIOT 380. A minimum standing of 65% is recommended in these courses. In Person-Learning  Men/W  1:00 p.m. - 2:00 p.m.

410 606 Nucleic Acids: Structure and Function W1 Chemical, physical and biological properties of nucleic acids and their role in replication, transcription, translation and regulation of expression of genetic material. Credit will be granted for only one of BIOC 310, BIOC 510. [3-0-0] Prerequisite: Either (a) all of BIOC 303, BIOL 335 or (b) BIOT 380. A minimum standing of 65% is recommended in these courses. In Person-Learning  Men/W  11:00 a.m. - 12:00 p.m.

410 608 Nucleic Acids: Structure and Function W1 Chemical, physical and biological properties of nucleic acids and their role in replication, transcription, translation and regulation of expression of genetic material. Credit will be granted for only one of BIOC 310, BIOC 510. [3-0-0] Prerequisite: Either (a) all of BIOC 303, BIOL 335 or (b) BIOT 380. A minimum standing of 65% is recommended in these courses. In Person-Learning  Fri  1:00 p.m. - 2:00 p.m.

410 609 Nucleic Acids: Structure and Function W1 Chemical, physical and biological properties of nucleic acids and their role in replication, transcription, translation and regulation of expression of genetic material. Credit will be granted for only one of BIOC 310, BIOC 510. [3-0-0] Prerequisite: Either (a) all of BIOC 303, BIOL 335 or (b) BIOT 380. A minimum standing of 65% is recommended in these courses. In Person-Learning  Fri  1:00 p.m. - 2:00 p.m.

420 601 Advanced Biochemical Techniques W1 Multi-week experiments in areas of contemporary biochemistry research using classical and modern techniques. Emphasis on experimental design, technique, critical analysis of data, and scientific communication skills. Restricted to Honours students in Biochemistry and others with permission of the instructor. [3-0-0] Corequisite: One of BIOC 402, BIOT 480. In Person-Learning  Tue  8:30 a.m. - 10:00 a.m.

420 602 Advanced Biochemical Techniques W1 Multi-week experiments in areas of contemporary biochemistry research using classical and modern techniques. Emphasis on experimental design, technique, critical analysis of data, and scientific communication skills. Restricted to Honours students in Biochemistry and others with permission of the instructor. [3-0-0] Corequisite: One of BIOC 402, BIOT 480. In Person-Learning  Thu  8:30 a.m. - 10:00 a.m.

420 603 Advanced Biochemical Techniques W1 Multi-week experiments involving contemporary nuclear acid research, cloning and recombinant protein engineering. Emphasis on experimental design, critical analysis of data and scientific communication skills. Restricted to Major students in Biochemistry. [3-0-0] Prerequisite: All of BIOC 401, BIOC 410. In Person-Learning  Wed  1:00 p.m. - 5:00 p.m.

420 604 Advanced Biochemical Techniques W1 Multi-week experiments involving contemporary nuclear acid research, cloning and recombinant protein engineering. Emphasis on experimental design, critical analysis of data and scientific communication skills. Restricted to Major students in Biochemistry. [3-0-0] Prerequisite: All of BIOC 401, BIOC 410. In Person-Learning  Thu  1:00 p.m. - 5:00 p.m.

420 605 Advanced Biochemical Techniques W1 Multi-week experiments involving contemporary nuclear acid research, cloning and recombinant protein engineering. Emphasis on experimental design, critical analysis of data and scientific communication skills. Restricted to Major students in Biochemistry. [3-0-0] Prerequisite: All of BIOC 401, BIOC 410. In Person-Learning  Thu  8:30 a.m. - 12:30 p.m.
BIOC_V 430 A A_201 Advanced Topics in Protein Biochemistry

W2 Advanced topics in protein structure and function. [3-0-0] Prerequisites: BIOC 402

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

BIOC_V 440 B 001 Concepts in Molecular Biology

W2 Developing areas of molecular biology, focusing on experimental design and data analysis. Signal transduction, the use of model invertebrates, and the regulation of gene expression. [3-0-0] Prerequisite: One of BIOC 306, BIOC 310, or BIOC 311.

In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

BIOC_V 448 A 101 Directed Studies in Biochemistry

W1 All classes (3-credit) or a laboratory project with written report (0-9 credits) allowing a student to undertake an investigation on a specific topic as agreed upon by the faculty and student. Prerequisite: Permission of the student's advisor required.

In Person Learning Arranged Arranged

BIOC_V 448 A 201 Directed Studies in Biochemistry

W2 All classes (3-credit) or a laboratory project with written report (0-9 credits) allowing a student to undertake an investigation on a specific topic as agreed upon by the faculty and student. Prerequisite: Permission of the Department Head is required.

In Person Learning Arranged Arranged

BIOC_V 448 B 001 Directed Studies in Biochemistry

W1-2 A research problem under the direction of a faculty member. Restricted to Honours students. The credit value for this course will be determined in consultation with the student prior to the registration.

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

BIOC_V 449 A 101 Honours Thesis

W1 A research problem under the direction of a faculty member. Restricted to Honours students. The credit value for this course will be determined in consultation with the student prior to the registration.

In Person Learning Arranged Arranged

BIOC_V 449 B 201 Honours Thesis

W2 A research problem under the direction of a faculty member. Restricted to Honours students. The credit value for this course will be determined in consultation with the student prior to the registration.

In Person Learning Arranged Arranged

BIOC_V 449 C 001 Honours Thesis

W1-2 A research problem under the direction of a faculty member. Restricted to Honours students. The credit value for this course will be determined in consultation with the student prior to the registration.

In Person Learning Arranged Arranged

BIOC_V 450 A 001 Membrane Biochemistry

W2 Biochemistry of membrane and membrane proteins, membrane fusion, electrical signaling, and the involvement of membrane proteins in disease and drug development. [3-0-0] Prerequisite: One of BIOC 303, BIOC 305, and one of BIOC 302, BIOC 410.

In Person Learning Mon Wed Fri 10:00 a.m. - 11:30 a.m.

BIOC_V 460 001 Advanced Techniques in Biochemistry

W2 Theoretical basis and practical applications of a selection of advanced techniques currently used in biomedical research. Topics will vary. [3-0-0] Prerequisite: One of BIOC 402, BIOC 410, or BIOC 510.

In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

BIOC_V 470 001 Biochemistry & Society: Current Issues

W2 Biochemical basis of recent global challenges. Critical evaluation of primary literature to form evidence-based opinions and communicating biochemistry as it relates to several controversial societal issues. [3-0-0] Prerequisite: One of BIOC 302, BIOC 311.

In Person Learning Mon Wed Fri 1:00 p.m. - 5:00 p.m.

BIOC_V 488 610 Internship Work Placement III

W1 Approved and supervised technical work experience in an industrial or academic research setting for four months. Technical report required. Restricted to students admitted to the Internship Program in Biochemistry and Molecular Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOC 309.

In Person Learning Arranged Arranged

BIOC_V 488 615 Internship Work Placement III

W2 Approved and supervised technical work experience in an industrial or academic research setting for four months. Technical report required. Restricted to students admitted to the Internship Program in Biochemistry and Molecular Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOC 309.

In Person Learning Arranged Arranged

BIOC_V 489 610 Internship Work Placement IV

W1 Approved and supervised technical work experience in an industrial or academic research setting for four months. Technical report required. Restricted to students admitted to the Internship Program in Biochemistry and Molecular Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOC 409.

In Person Learning Arranged Arranged

BIOC_V 489 615 Internship Work Placement IV

W2 Approved and supervised technical work experience in an industrial or academic research setting for four months. Technical report required. Restricted to students admitted to the Internship Program in Biochemistry and Molecular Biology. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOC 409.

In Person Learning Arranged Arranged

BIOC_V 501 A A_102 Advanced Biochemistry Laboratory

W1 Practical applications of advanced biochemical techniques. Admission is limited and is by permission of the department head. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.

In Person Learning Arranged Arranged

BIOC_V 501 C C_002 Advanced Biochemistry Laboratory

W1 Practical applications of advanced biochemical techniques. Admission is limited and is by permission of the department head. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.

In Person Learning Arranged Arranged

BIOC_V 510 001 Nucleic Acids: Structure and Function

W1 Structure and function of nucleic acids and their role in replication, transcription, translation and expression of genes. Information. Credit will be granted for only one of BIOC 410 or BIOC 510. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of BIOC 302 or BIOC 303.

In Person Learning Arranged Arranged

BIOC_V 510 001 Seminar in Biochemistry

W1-2 Attendance is required of all graduate students in Biochemistry. Normally students will make a presentation once per year on a topic approved by their research advisor or committee or on the results of their research. This course is not eligible for Credit/D/Fail grading. In Person Learning Fri 12:00 p.m. - 1:00 p.m.

BIOC_V 510 101 Seminar in Biochemistry

W1 Attendance is required of all graduate students in Biochemistry. Normally students will make a presentation once per year on a topic approved by their research advisor or committee or on the results of their research. This course is not eligible for Credit/D/Fail grading. In Person Learning Fri 12:00 p.m. - 1:00 p.m.

BIOC_V 510 201 Seminar in Biochemistry

W2 Attendance is required of all graduate students in Biochemistry. Normally students will make a presentation once per year on a topic approved by their research advisor or committee or on the results of their research. This course is not eligible for Credit/D/Fail grading. In Person Learning Fri 12:00 p.m. - 1:00 p.m.

BIOC_V 548 A 004 Directed Studies

W2 In special cases, with approval of the department head, advanced courses may be arranged for graduate students in attendance. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.

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<th>Title</th>
<th>Schedule</th>
<th>Mode</th>
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<td>W1-2</td>
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<td>W1-2</td>
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<td>W1-2</td>
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<td>BIOC_V 549-001</td>
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<td>M.Sc. 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>BIOC_V 549-101</td>
<td>BIOC_V</td>
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<td>M.Sc. 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>BIOC_V 549-201</td>
<td>BIOC_V</td>
<td>2</td>
<td>M.Sc. 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>BIOC_V 555-001</td>
<td>BIOC_V</td>
<td>2</td>
<td>Advanced Topics in Biochemistry and Molecular Biology</td>
<td>W1-2</td>
<td>Discussions based on topics in the current literature. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>BIOC_V 558-001</td>
<td>BIOC_V</td>
<td>2</td>
<td>Biochemical Aspects of Cellular Regulation</td>
<td>W1</td>
<td>Mechanisms involved in the responses of cells to adenylate, cAMP, and peptide hormones and growth factors. Recent advances in the general regulation of the cell and the specific activities of key enzymes, transport systems, and structural proteins. Given in alternate years. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>BIOC_V 557-001</td>
<td>BIOC_V</td>
<td>2</td>
<td>Advanced Topics in Biochemistry</td>
<td>W1</td>
<td>Advances in biochemical approaches. Topics vary. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>BIOC_V 558-001</td>
<td>BIOC_V</td>
<td>2</td>
<td>Advanced Topics in Protein Chemistry</td>
<td>W1</td>
<td>Contemporary theoretical and experimental investigation of protein structure-function relationships. Topics will vary. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>BIOC_V 559-001</td>
<td>BIOC_V</td>
<td>2</td>
<td>Advanced Topics in Protein Chemistry</td>
<td>W1</td>
<td>Contemporary theoretical and experimental investigation of protein structure-function relationships. Topics will vary. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>BIOC_V 560-B_001</td>
<td>BIOC_V</td>
<td>2</td>
<td>Computational Approaches in Biochemistry</td>
<td>W2</td>
<td>Computational approaches to study protein and nucleic acid. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>BIOC_V 569-001</td>
<td>BIOC_V</td>
<td>2</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>BIOC_V 569-101</td>
<td>BIOC_V</td>
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<td>Doctoral Dissertation</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>BIOC_V 569-201</td>
<td>BIOC_V</td>
<td>2</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>BIOC_V 581-A_001</td>
<td>BIOC_V</td>
<td>2</td>
<td>Special Topic in Bioinformatics</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>BIOC_V 520-002</td>
<td>BIOC_V</td>
<td>2</td>
<td>Problem-Based Learning in Bioinformatics</td>
<td>W2</td>
<td>Problem-based learning. Students are expected to work in small groups focused on real but simplified problems in bioinformatics. Problems are carefully selected to cover all aspects of bioinformatics research.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>BIOC_V 540-A_001</td>
<td>BIOC_V</td>
<td>2</td>
<td>Statistical Methods for High Dimensional Biology</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>Code</td>
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<td>BIOF_V 540-001</td>
<td>Directed Studies</td>
<td>W1</td>
<td>Wed</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>BIOF_V 540-002</td>
<td>Directed Studies</td>
<td>W2</td>
<td>Wed</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>BIOF_V 599-001</td>
<td>M.Sc. Thesis</td>
<td>W1</td>
<td>Wed, Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>BIOF_V 599-002</td>
<td>M.Sc. Thesis</td>
<td>W2</td>
<td>Wed, Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>BIOF_V 599-003</td>
<td>M.Sc. Thesis</td>
<td>W1-2</td>
<td>Wed, Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>BIOF_V 009-001</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>Wed, Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>BIOF_V 009-002</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
<td>Wed, Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>BIOF_V 009-003</td>
<td>Doctoral Dissertation</td>
<td>W1-2</td>
<td>Wed, Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>BIOF_V 111-001</td>
<td>Introduction to Modern Biology</td>
<td>W1</td>
<td>Wed, Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>BIOF_V 111-002</td>
<td>Introduction to Modern Biology</td>
<td>W2</td>
<td>Wed, Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>BIOF_V 112-001</td>
<td>Biology of the Cell</td>
<td>W1</td>
<td>Wed, Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>BIOF_V 112-002</td>
<td>Biology of the Cell</td>
<td>W2</td>
<td>Wed, Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>BIOF_V 112-003</td>
<td>Biology of the Cell</td>
<td>W1</td>
<td>Wed, Fri</td>
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<td>BIOF_V 112-004</td>
<td>Biology of the Cell</td>
<td>W2</td>
<td>Wed, Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>BIOF_V 112-005</td>
<td>Biology of the Cell</td>
<td>W1</td>
<td>Wed, Fri</td>
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<td>BIOF_V 112-006</td>
<td>Biology of the Cell</td>
<td>W2</td>
<td>Wed, Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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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 BIO 11, BIO 12, BIO 111.

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.

Advanced study under the direction of a faculty member composed of laboratory sessions and directed readings related to selected areas of bioinformatics. Students must get permission to register in this course. This course is not eligible for Credit/D/Fail grading.

The credit value for this course will be determined in consultation with the student prior to the registration.

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

Advanced study under the direction of a faculty member composed of laboratory sessions and directed readings related to selected areas of bioinformatics. Students must get permission to register in this course. This course is not eligible for Credit/D/Fail grading.

The credit value for this course will be determined in consultation with the student prior to the registration.

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

Concepts fundamental to biological issues, such as the genetic basis of biological variation, evolution, infectious disease, causes of cancer, population growth, and human effects on ecosystems.

Not open to students who have credit for Biology 12 (excluding AA) [1-0-0].

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<th>Course</th>
<th>CRN</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Title</th>
<th>Prerequisites</th>
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<tr>
<td>BIOL_V 112-T62</td>
<td>112</td>
<td>MWF</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>112</td>
<td>In Person Learning</td>
<td>Mon</td>
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<td>BIOL_V 112-T66</td>
<td>112</td>
<td>MWF</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>112</td>
<td>In Person Learning</td>
<td>Tue</td>
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<tr>
<td>BIOL_V 112-T70</td>
<td>112</td>
<td>MWF</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<td>BIOL_V 112-T74</td>
<td>112</td>
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<td>BIOL_V 112-T78</td>
<td>112</td>
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<td>BIOL_V 112-T82</td>
<td>112</td>
<td>MWF</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>112</td>
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Prerequisite: One of CHEM 12, CHEM 100, CHEM 110, CHEM 111 and one of BIO 11, BIO 12, BIO 111.

The principles of cellular and molecular biology using bacterial and eukaryotic examples. [3-0-0]
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 BIO 11, BIO 12, BIO 111.
In Person Learning Tue 9:00 a.m. - 10:00 a.m.

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 BIO 11, BIO 12, BIO 111.
In Person Learning Tue 2:00 p.m. - 3:00 p.m.

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 BIO 11, BIO 12, BIO 111.
In Person Learning Tue 5:00 p.m. - 6:00 p.m.

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 BIO 11, BIO 12, BIO 111.
In Person Learning Wed 3:00 a.m. - 11:00 a.m.

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 BIO 11, BIO 12, BIO 111.
In Person Learning Wed 11:00 a.m. - 12:00 p.m.

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 BIO 11, BIO 12, BIO 111.
In Person Learning Thu 8:00 a.m. - 10:00 a.m.

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 BIO 11, BIO 12, BIO 111.
In Person Learning Thu 5:00 p.m. - 6:00 p.m.

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 BIO 11, BIO 12, BIO 111.
In Person Learning Wed 5:00 p.m. - 6:00 p.m.

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 BIO 11, BIO 12, BIO 111.
In Person Learning Fri 12:00 p.m. - 1:00 p.m.

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 BIO 11, BIO 12, BIO 111.
In Person Learning Mon 3:00 p.m. - 4:00 p.m.

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 BIO 11, BIO 12, BIO 111.
In Person Learning Tue 6:00 p.m. - 7:00 p.m.

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 BIO 11, BIO 12, BIO 111.
In Person Learning Wed 3:00 p.m. - 4:00 p.m.

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 BIO 11, BIO 12, BIO 111.
In Person Learning Mon 10:00 a.m. - 11:00 a.m.

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 BIO 11, BIO 12, BIO 111.
In Person Learning Thu 10:00 a.m. - 11:00 a.m.

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 BIO 121 or BIO 164. [3-0-0]
Prerequisite: BIO 11, BIO 12, BIO 111.
In Person Learning Tue 8:00 a.m. - 9:30 a.m.

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 BIO 121 or BIO 164. [3-0-0]
Prerequisite: BIO 11, BIO 12, BIO 111.
In Person Learning Tue 9:30 a.m. - 11:00 a.m.

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 BIO 121 or BIO 164. [3-0-0]
Prerequisite: BIO 11, BIO 12, BIO 111.
In Person Learning Mon Wed Fri 1:00 p.m. - 2:00 p.m.

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 BIO 121 or BIO 164. [3-0-0]
Prerequisite: BIO 11, BIO 12, BIO 111.
In Person Learning Mon Wed Fri 2:00 p.m. - 3:30 p.m.

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 BIO 121 or BIO 164. [3-0-0]
Prerequisite: BIO 11, BIO 12, BIO 111.
In Person Learning Mon Wed Fri 8:00 a.m. - 10:00 a.m.

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 BIO 121 or BIO 164. [3-0-0]
Prerequisite: BIO 11, BIO 12, BIO 111.
In Person Learning Mon Wed Fri 5:00 p.m. - 6:30 p.m.

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 BIO 121 or BIO 164. [3-0-0]
Prerequisite: BIO 11, BIO 12, BIO 111.
In Person Learning Mon Wed Fri 12:00 p.m. - 1:00 p.m.

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 BIO 121 or BIO 164. [3-0-0]
Prerequisite: BIO 11, BIO 12, BIO 111.
In Person Learning Mon Wed Fri 2:00 p.m. - 3:00 p.m.
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<th>Days</th>
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<tr>
<td>BIOL_V 155-T01</td>
<td>Human Biology: Physiology and Introductory Anatomy</td>
<td>W1-2</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>BC 11, BCC 12, BIOS 111</td>
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<td>BIOL_V 155-T03</td>
<td>Human Biology: Physiology and Introductory Anatomy</td>
<td>W1-2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>BC 11, BCC 12, BIOS 111</td>
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<td>BIOL_V 155-T05</td>
<td>Human Biology: Physiology and Introductory Anatomy</td>
<td>W1-2</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>BC 11, BCC 12, BIOS 111</td>
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<tr>
<td>BIOL_V 155-T06</td>
<td>Human Biology: Physiology and Introductory Anatomy</td>
<td>W1-2</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>BC 11, BCC 12, BIOS 111</td>
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**Description:**
Principles of storage and transmission of genetic variation; origin and evolution of species and their ecological interactions. Credit will be granted for only one of BIOL 121 or BIOL 344. [3-0-0] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111.

**Prerequisites:**
- One of BIOL 11, BIOL 12, BIOL 111.
- CHEM 111 and one of BIOL 11, BIOL 12, BIOS 111.
- CHEM 111 and one of BIOL 11, BIOL 12, BIOS 111.

**Additional Information:**
- 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]
BIOL_V 155-T14  BIOL_V 155-T14  Human Biology: Physiology and Introductory Anatomy  WI-2  The principles of biology with particular reference to the human body (anatomy and physiology). [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Thu 11:00 a.m. - 12:00 p.m.

BIOL_V 155-T15  BIOL_V 155-T15  Human Biology: Physiology and Introductory Anatomy  WI-2  The principles of biology with particular reference to the human body (anatomy and physiology). [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Thu 11:00 a.m. - 12:00 p.m.

BIOL_V 155-T16  BIOL_V 155-T16  Human Biology: Physiology and Introductory Anatomy  WI-2  The principles of biology with particular reference to the human body (anatomy and physiology). [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Thu 11:00 a.m. - 12:00 p.m.

BIOL_V 155-T17  BIOL_V 155-T17  Human Biology: Physiology and Introductory Anatomy  WI-2  The principles of biology with particular reference to the human body (anatomy and physiology). [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Fri 10:00 a.m. - 11:00 a.m.

BIOL_V 155-T18  BIOL_V 155-T18  Human Biology: Physiology and Introductory Anatomy  WI-2  The principles of biology with particular reference to the human body (anatomy and physiology). [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Fri 10:00 a.m. - 11:00 a.m.

BIOL_V 155-T19  BIOL_V 155-T19  Human Biology: Physiology and Introductory Anatomy  WI-2  The principles of biology with particular reference to the human body (anatomy and physiology). [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Fri 11:00 a.m. - 12:00 p.m.

BIOL_V 155-T20  BIOL_V 155-T20  Human Biology: Physiology and Introductory Anatomy  WI-2  The principles of biology with particular reference to the human body (anatomy and physiology). [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Fri 12:00 p.m. - 1:00 p.m.

BIOL_V 180-101  BIOL_V 180-101  Thinking Like a Life Scientist  WI  Science as a process, the skills of scientists, and the exploration of a current biological challenge with a practicing UBC scientist. [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Arranged

BIOL_V 180-102  BIOL_V 180-102  Thinking Like a Life Scientist  WI  Science as a process, the skills of scientists, and the exploration of a current biological challenge with a practicing UBC scientist. [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Tue 9:30 a.m. - 10:30 a.m.

BIOL_V 180-103  BIOL_V 180-103  Thinking Like a Life Scientist  WI  Science as a process, the skills of scientists, and the exploration of a current biological challenge with a practicing UBC scientist. [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Tue 9:30 a.m. - 10:30 a.m.

BIOL_V 180-104  BIOL_V 180-104  Thinking Like a Life Scientist  WI  Science as a process, the skills of scientists, and the exploration of a current biological challenge with a practicing UBC scientist. [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Tue 2:00 p.m. - 3:00 p.m.

BIOL_V 180-105  BIOL_V 180-105  Thinking Like a Life Scientist  WI  Science as a process, the skills of scientists, and the exploration of a current biological challenge with a practicing UBC scientist. [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Tue 2:00 p.m. - 3:00 p.m.

BIOL_V 180-106  BIOL_V 180-106  Thinking Like a Life Scientist  WI  Science as a process, the skills of scientists, and the exploration of a current biological challenge with a practicing UBC scientist. [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Wed 8:00 a.m. - 9:00 a.m.

BIOL_V 180-107  BIOL_V 180-107  Thinking Like a Life Scientist  WI  Science as a process, the skills of scientists, and the exploration of a current biological challenge with a practicing UBC scientist. [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Wed 8:00 a.m. - 9:00 a.m.

BIOL_V 180-108  BIOL_V 180-108  Thinking Like a Life Scientist  WI  Science as a process, the skills of scientists, and the exploration of a current biological challenge with a practicing UBC scientist. [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Wed 9:00 a.m. - 10:00 a.m.

BIOL_V 180-109  BIOL_V 180-109  Thinking Like a Life Scientist  WI  Science as a process, the skills of scientists, and the exploration of a current biological challenge with a practicing UBC scientist. [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Wed 9:00 a.m. - 10:00 a.m.

BIOL_V 180-110  BIOL_V 180-110  Thinking Like a Life Scientist  WI  Science as a process, the skills of scientists, and the exploration of a current biological challenge with a practicing UBC scientist. [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Thu 8:30 a.m. - 9:30 a.m.

BIOL_V 180-111  BIOL_V 180-111  Thinking Like a Life Scientist  WI  Science as a process, the skills of scientists, and the exploration of a current biological challenge with a practicing UBC scientist. [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Thu 8:30 a.m. - 9:30 a.m.

BIOL_V 180-112  BIOL_V 180-112  Thinking Like a Life Scientist  WI  Science as a process, the skills of scientists, and the exploration of a current biological challenge with a practicing UBC scientist. [2-0-1] Prerequisite: One of BIOL 11, BIOL 12, BIOL 111. In Person Learning Thu 8:30 a.m. - 9:30 a.m.
<table>
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<tr>
<th>Course Code</th>
<th>Title</th>
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<th>Location</th>
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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. [3-0-1] Prerequisite: Either (a) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 110 or (c) 8 transfer credits of first-year BIO 112 and 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.

FI 200-T14 Fundamentals of Cell Biology In Person Learning 11:00 a.m. - 12:00 p.m. Mon

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 110 or (c) 8 transfer credits of first-year BIO 112 and 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.

FI 200-T07 Fundamentals of Cell Biology In Person Learning 11:00 a.m. - 12:00 p.m. Mon

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 110 or (c) 8 transfer credits of first-year BIO 112 and 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.

FI 200-T08 Fundamentals of Cell Biology In Person Learning 11:00 a.m. - 12:00 p.m. Mon

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 110 or (c) 8 transfer credits of first-year BIO 112 and 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.

FI 200-T09 Fundamentals of Cell Biology In Person Learning 11:00 a.m. - 12:00 p.m. Mon

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 110 or (c) 8 transfer credits of first-year BIO 112 and 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.

FI 200-T10 Fundamentals of Cell Biology In Person Learning 11:00 a.m. - 12:00 p.m. Mon

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 110 or (c) 8 transfer credits of first-year BIO 112 and 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.

FI 200-T11 Fundamentals of Cell Biology In Person Learning 11:00 a.m. - 12:00 p.m. Mon

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 110 or (c) 8 transfer credits of first-year BIO 112 and 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.

FI 200-T12 Fundamentals of Cell Biology In Person Learning 11:00 a.m. - 12:00 p.m. Mon

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 110 or (c) 8 transfer credits of first-year BIO 112 and 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.

FI 200-T13 Fundamentals of Cell Biology In Person Learning 11:00 a.m. - 12:00 p.m. Mon

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 110 or (c) 8 transfer credits of first-year BIO 112 and 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.

FI 200-T14 Fundamentals of Cell Biology In Person Learning 11:00 a.m. - 12:00 p.m. Mon
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 BIOL 112 and one of CHEM 123, CHEM 130, or (b) CHEM 100. 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 competence of one of CHEM 203 or CHEM 223.

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 BIOL 112 and one of CHEM 123, CHEM 130, or (b) CHEM 100. 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 competence of one of CHEM 203 or CHEM 223.

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 BIOL 112 and one of CHEM 123, CHEM 130, or (b) CHEM 100. 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 competence of one of CHEM 203 or CHEM 223.

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 BIOL 112 and one of CHEM 123, CHEM 130, or (b) CHEM 100. 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 competence of one of CHEM 203 or CHEM 223.

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 BIOL 112 and one of CHEM 123, CHEM 130, or (b) CHEM 100. 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 competence of one of CHEM 203 or CHEM 223.

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 BIOL 112 and one of CHEM 123, CHEM 130, or (b) CHEM 100. 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 competence of one of CHEM 203 or CHEM 223.

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 BIOL 112 and one of CHEM 123, CHEM 130, or (b) CHEM 100. 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 competence of one of CHEM 203 or CHEM 223.

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 BIOL 112 and one of CHEM 123, CHEM 130, or (b) CHEM 100. 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 competence of one of CHEM 203 or CHEM 223.
In Person Learning
Fundamentals of Cell Biology

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 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.

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

In Person Learning
Fundamentals of Cell Biology

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 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.

In Person Learning
Wed 3:00 p.m. - 4:00 p.m.

In Person Learning
Fundamentals of Cell Biology

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 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.

In Person Learning
Wed 4:00 p.m. - 5:00 p.m.

In Person Learning
Fundamentals of Cell Biology

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 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.

In Person Learning
Wed 4:00 p.m. - 5:00 p.m.

In Person Learning
Fundamentals of Cell Biology

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 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.

In Person Learning
Thu 3:00 a.m. - 11:00 a.m.

In Person Learning
Fundamentals of Cell Biology

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 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.

In Person Learning
Thu 12:00 a.m. - 11:00 a.m.

In Person Learning
Fundamentals of Cell Biology

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 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.

In Person Learning
Thu 11:00 a.m. - 12:30 p.m.

In Person Learning
Fundamentals of Cell Biology

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 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.

In Person Learning
Thu 11:00 a.m. - 12:30 p.m.

In Person Learning
Fundamentals of Cell Biology

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 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.

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

In Person Learning
Fundamentals of Cell Biology

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 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.

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

In Person Learning
Fundamentals of Cell Biology

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 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.

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

In Person Learning
Fundamentals of Cell Biology

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 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
Fundamentals of Cell Biology

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 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.

In Person Learning
Fri 9:00 a.m. - 10:30 a.m.

In Person Learning
Fundamentals of Cell Biology

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) BIOL 112 and one of CHEM 123, CHEM 130; or (b) CHEM 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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Fri 9:00 a.m. - 10:30 a.m.
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. 

**Prerequisites:** Either [Biol 112 and one of Chem 123, Chem 130, or (Biol 100 and (Biol 122 or Biol 123)) or 8 transfer credits of first-year Biol and 6 credits of first-year Chem or (Biol 101 and Biol 102 or Biol 103 and a comprehensive course of Chem 100 or Chem 101).

**In-Person Learning**

- **9:30 a.m. - 11:00 a.m.**
- **1:00 p.m. - 2:00 p.m.**
- **3:00 p.m. - 4:00 p.m.**
- **5:30 p.m. - 6:30 p.m.**

**W1**

- **Mon**
- **T62**
- **In Person Learning**
- **Fundamentals of Cell Biology**

**W2**

- **Mon**
- **T61**
- **Fundamentals of Cell Biology**

- **Wed**
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- **Fundamentals of Cell Biology**

- **Fri**
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- **Fundamentals of Cell Biology**

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- **Introduction to Biochemistry**
Biological molecules, protein structure and enzyme action, energy transfer, central metabolic pathways and their regulation. Examples drawn from plants, animals and microorganisms. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 233, CHEM 330. Credit will be granted for only one of BIOL 201, BIOC 202, or BIOC 203. [1-0-1] Preperquisite: BIOL 200 and one of CHEM 233, CHEM 330, or BIOL 200 and a composite of CHEM 211; or a composite of either CHIM 313 or CHIM 310.

Biological molecules, protein structure and enzyme action, energy transfer, central metabolic pathways and their regulation. Examples drawn from plants, animals and microorganisms. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 233, CHEM 330, or BIOL 200 and a composite of CHEM 211; or a composite of either CHIM 313 or CHIM 310.

Biological molecules, protein structure and enzyme action, energy transfer, central metabolic pathways and their regulation. Examples drawn from plants, animals and microorganisms. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 233, CHEM 330, or BIOL 200 and a composite of CHEM 211; or a composite of either CHIM 313 or CHIM 310.

Biological molecules, protein structure and enzyme action, energy transfer, central metabolic pathways and their regulation. Examples drawn from plants, animals and microorganisms. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 233, CHEM 330, or BIOL 200 and a composite of CHEM 211; or a composite of either CHIM 313 or CHIM 310.

Biological molecules, protein structure and enzyme action, energy transfer, central metabolic pathways and their regulation. Examples drawn from plants, animals and microorganisms. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 233, CHEM 330, or BIOL 200 and a composite of CHEM 211; or a composite of either CHIM 313 or CHIM 310.

Biological molecules, protein structure and enzyme action, energy transfer, central metabolic pathways and their regulation. Examples drawn from plants, animals and microorganisms. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 233, CHEM 330, or BIOL 200 and a composite of CHEM 211; or a composite of either CHIM 313 or CHIM 310.

Biological molecules, protein structure and enzyme action, energy transfer, central metabolic pathways and their regulation. Examples drawn from plants, animals and microorganisms. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 233, CHEM 330, or BIOL 200 and a composite of CHEM 211; or a composite of either CHIM 313 or CHIM 310.

Biological molecules, protein structure and enzyme action, energy transfer, central metabolic pathways and their regulation. Examples drawn from plants, animals and microorganisms. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 233, CHEM 330, or BIOL 200 and a composite of CHEM 211; or a composite of either CHIM 313 or CHIM 310.

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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. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 233, CHEM 330, or BIOL 200 and a composite of CHEM 211; or a composite of either CHIM 313 or CHIM 310.

Biological molecules, protein structure and enzyme action, energy transfer, central metabolic pathways and their regulation. Examples drawn from plants, animals and microorganisms. [3-0-1] Prerequisite: BIOL 200 and one of CHEM 233, CHEM 330, or BIOL 200 and a composite of CHEM 211; or a composite of either CHIM 313 or CHIM 310.
Biol 201-116
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Biol 201-118
Biol 201-119
Biol 201-220
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Biol 201-224
Biol 203-101
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Biol 203-102
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Biol 203-104
Biol 206-201
Biol 206-111
Biol 206-112
Biol 206-115
Biol 206-117
2:00 p.m. - 5:00 p.m.
Vertebrate Structure and Function
Eukaryotic Microbiology
Vertebrate Structure and Function
Eukaryotic Microbiology
Vertebrate Structure and Function
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Vertebrate Structure and Function W2
Introduction to the vertebrate phyla and their evolution; a comparative study of vertebrate structure and function, with dissection of representative forms. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology. In Person Learning Tue 9:30 a.m. - 12:30 p.m.

Vertebrate Structure and Function W2
Introduction to the vertebrate phyla and their evolution; a comparative study of vertebrate structure and function, with dissection of representative forms. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology. In Person Learning Thu 9:30 a.m. - 12:30 p.m.

Comparative Invertebrate Zoology W1
An introduction to the unity, diversity and evolutionary history of invertebrates. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology. In Person Learning Mon Wed Fri 3:00 p.m. - 5:00 p.m.

Comparative Invertebrate Zoology W1
An introduction to the unity, diversity and evolutionary history of invertebrates. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology. In Person Learning Mon 2:00 p.m. - 5:00 p.m.

Comparative Invertebrate Zoology W1
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Comparative Invertebrate Zoology W1
An introduction to the unity, diversity and evolutionary history of invertebrates. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology. In Person Learning Mon 2:00 p.m. - 5:00 p.m.

Comparative Invertebrate Zoology 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.

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Comparative Invertebrate Zoology W1
Diversity, ecology, cell biology and evolutionary origins of multicellular eukaryotes, illustrated through mosses and liverworts; fungi and slime molds; and fresh water and marine algae. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology. In Person Learning Fri 9:30 a.m. - 12:30 p.m.

Comparative Invertebrate Zoology W1
Diversity, ecology, cell biology and evolutionary origins of multicellular eukaryotes, illustrated through mosses and liverworts; fungi and slime molds; and fresh water and marine algae. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology. In Person Learning Fri 2:00 p.m. - 5:00 p.m.

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Diversity, ecology, cell biology and evolutionary origins of multicellular eukaryotes, illustrated through mosses and liverworts; fungi and slime molds; and fresh water and marine algae. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology. In Person Learning Fri 9:30 a.m. - 12:30 p.m.

Vascular Plants W2
A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form and function. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology. Experiential: API 210 In Person Learning Mon Wed Fri 9:30 a.m. - 12:30 p.m.

Vascular Plants W2
A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form and function. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology. Experiential: API 210 In Person Learning Thu 9:30 a.m. - 12:30 p.m.

Vascular Plants W2
A comparative study of pteridophytes, gymnosperms and angiosperms, integrating form and function. [3-3-0] Prerequisite: One of BIOL 121, SCIE 001. Or 8 transfer credits of first-year biology. Experiential: API 210 In Person Learning Mon 9:30 a.m. - 12:30 p.m.

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Vascular Plants W2
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<th>CRN</th>
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<td>BIOL 230-201</td>
<td>210</td>
<td>Fundamentals of Ecology</td>
<td>In Person</td>
<td>Mon</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>210</td>
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Biology (BIOL) 121: 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 of first-year BIOL.
BIOL 230-L40  BIOL V  230  L40  Fundamentals of Ecology  W2  Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL. In Person Learning  Mon  2:00 p.m. - 5:00 p.m.

BIOL 230-L41  BIOL V  230  L41  Fundamentals of Ecology  W2  Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL. In Person Learning  Mon  2:00 p.m. - 5:00 p.m.

BIOL 230-L42  BIOL V  230  L42  Fundamentals of Ecology  W2  Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL. In Person Learning  Mon  2:00 p.m. - 5:00 p.m.

BIOL 230-L43  BIOL V  230  L43  Fundamentals of Ecology  W2  Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL. In Person Learning  Mon  2:00 p.m. - 5:00 p.m.

BIOL 230-L44  BIOL V  230  L44  Fundamentals of Ecology  W2  Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL. In Person Learning  Mon  2:00 p.m. - 5:00 p.m.

BIOL 230-L45  BIOL V  230  L45  Fundamentals of Ecology  W2  Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL. In Person Learning  Mon  2:00 p.m. - 5:00 p.m.

BIOL 230-L46  BIOL V  230  L46  Fundamentals of Ecology  W2  Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL. In Person Learning  Wed  2:00 p.m. - 5:00 p.m.

BIOL 230-L47  BIOL V  230  L47  Fundamentals of Ecology  W2  Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL. In Person Learning  Wed  2:00 p.m. - 5:00 p.m.

BIOL 230-L48  BIOL V  230  L48  Fundamentals of Ecology  W2  Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL. In Person Learning  Wed  2:00 p.m. - 5:00 p.m.

BIOL 230-L49  BIOL V  230  L49  Fundamentals of Ecology  W2  Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL. In Person Learning  Wed  2:00 p.m. - 5:00 p.m.

BIOL 230-L50  BIOL V  230  L50  Fundamentals of Ecology  W2  Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL. In Person Learning  Wed  2:00 p.m. - 5:00 p.m.

BIOL 230-L51  BIOL V  230  L51  Fundamentals of Ecology  W2  Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL. In Person Learning  Wed  2:00 p.m. - 5:00 p.m.

BIOL 230-L52  BIOL V  230  L52  Fundamentals of Ecology  W2  Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL. In Person Learning  Thu  2:00 p.m. - 5:00 p.m.

BIOL 230-L53  BIOL V  230  L53  Fundamentals of Ecology  W2  Dynamics of plant and animal populations, structure of ecological communities and functioning of ecosystems. Interpretation of research results and application to environmental issues. Labs meet once a month. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-3*-0] Prerequisite: One of BIOL 121, SCIE 001 or 8 transfer credits of first-year BIOL. In Person Learning  Thu  2:00 p.m. - 5:00 p.m.
BIOL 230-155

BIOL 230-156

BIOL 230-157

BIOL 230-158

BIOL 230-159

BIOL 230-160

BIOL 230-161

BIOL 230-162

BIOL 230-163

BIOL 234-201

BIOL 234-202

BIOL 234-201

BIOL 234-202

BIOL 234-701

BIOL 234-702

Fundamentals of Ecology

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, SCI 301 or 8 transfer credits of first-year BIOL.

In Person Learning

Thu

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

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In Person Learning

Fri

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

Fundamentals of Genetics

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 or BIOL 121; or (b) SCIE 001; (c) a corequisite of one of CHEM 203 or CHEM 223 and one of SCIE 110; or (d) 8 transfer credits of first-year BIOL.

In Person Learning

Mon Wed Fri

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

Fundamentals of Genetics

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In Person Learning

Mon Wed Fri

10:00 a.m. - 11:00 a.m.
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<td>BIOL 112 or BIOL 121; or SCIE 001; or 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.</td>
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<td>BIOL 112</td>
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<td>3-0-2</td>
<td>BIOL 112 or BIOL 121; or SCIE 001; or 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.</td>
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<td>BIOL 112</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>3-0-2</td>
<td>BIOL 112 or BIOL 121; or SCIE 001; or 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.</td>
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<td>BIOL 112</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>3-0-2</td>
<td>BIOL 112 or BIOL 121; or SCIE 001; or 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.</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; (d) 8 transfer credits of first-year BIOL.

In Person Learning - Mon 3:00 p.m. - 4:00 p.m.

In Person Learning - Tue 3:00 p.m. - 4:00 p.m.

In Person Learning - Wed 3:00 p.m. - 4:00 p.m.

In Person Learning - Thu 3:00 p.m. - 4:00 p.m.
In Person Learning

T48
11:00 a.m. - 1:00 p.m. Wed
2:00 p.m. - 4:00 p.m.
In Person Learning

T42
2:00 p.m. - 4:00 p.m. Mon
In Person Learning

T41
12:00 p.m. - 2:00 p.m. Mon
11:00 a.m. - 1:00 p.m.
T43
234
11:00 a.m. - 1:00 p.m. Wed
W2
Wed

T51
Fundamentals of Genetics
2:00 p.m. - 4:00 p.m. Thu

T50
11:00 a.m. - 1:00 p.m. Mon

T53
11:00 a.m. - 1:00 p.m. Fri

W1

T47

W2

T40

W2

T44

W2

T49

W2

T46

W2

T45

W2

T43

W2

T42

W2

T48

W2

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W2
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<td>T54</td>
<td>Tue Thu</td>
<td>2:00 p.m.</td>
<td>101</td>
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<tr>
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<td>T55</td>
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<tr>
<td>260</td>
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<tr>
<td>260</td>
<td>T22</td>
<td>Tue Thu</td>
<td>11:00 a.m.</td>
<td>101</td>
<td></td>
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<tr>
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<td>9:30 a.m.</td>
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<tr>
<td>260</td>
<td>T22</td>
<td>Thu</td>
<td>9:30 a.m.</td>
<td>101</td>
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</table>

BIOL_V 300-L05

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. [3-0-0] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) CHEM 203 or (c) 8 transfer credits of 1st year BIOL and 6 credits of 1st year chemistry.

BIOL_V 300-202

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. [3-0-0] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) CHEM 203 or (c) 8 transfer credits of 1st year BIOL and 6 credits of 1st year chemistry.

BIOL_V 300-203

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. [3-0-0] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) CHEM 203 or (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOL 112 or BIOL 121; or (d) 8 transfer credits of 1st year BIOL.

BIOL_V 300-101

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. [3-0-0] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) CHEM 203 or (c) 8 transfer credits of 1st year BIOL and 6 credits of 1st year chemistry.

BIOL_V 300-102

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. [3-0-0] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) CHEM 203 or (c) 8 transfer credits of 1st year BIOL and 6 credits of 1st year chemistry.

BIOL_V 300-103

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. [3-0-0] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) CHEM 203 or (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOL 112 or BIOL 121; or (d) 8 transfer credits of 1st year BIOL.

BIOL_V 300-104

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. [3-0-0] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) CHEM 203 or (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOL 112 or BIOL 121; or (d) 8 transfer credits of 1st year BIOL.

BIOL_V 300-105

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. [3-0-0] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) CHEM 203 or (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOL 112 or BIOL 121; or (d) 8 transfer credits of 1st year BIOL.

BIOL_V 300-106

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. [3-0-0] Prerequisite: Either (a) all of BIOL 112, BIOL 121 or (b) CHEM 203 or (c) a corequisite of one of CHEM 203 or CHEM 223 and one of BIOL 112 or BIOL 121; or (d) 8 transfer credits of 1st year BIOL.
| BIOL_V 300-107 | BIOL_V | 300 | 107 | Fundamentals of Biostatistics | 1.0 | In Person Learning | Fri | 11:00 a.m. - 1:00 p.m. |
| BIOL_V 300-128 | BIOL_V | 300 | 108 | Fundamentals of Biostatistics | 1.0 | In Person Learning | Fri | 2:00 p.m. - 4:00 p.m. |
| BIOL_V 300-109 | BIOL_V | 300 | 109 | Fundamentals of Biostatistics | 1.0 | In Person Learning | Fri | 9:00 a.m. - 11:00 a.m. |
| BIOL_V 300-110 | BIOL_V | 300 | 110 | Fundamentals of Biostatistics | 1.0 | In Person Learning | Tue | 11:00 a.m. - 1:00 p.m. |
| BIOL_V 300-121 | BIOL_V | 300 | 121 | Fundamentals of Biostatistics | 1.0 | In Person Learning | Mon | 12:00 p.m. - 2:00 p.m. |
| BIOL_V 300-122 | BIOL_V | 300 | 122 | Fundamentals of Biostatistics | 1.0 | In Person Learning | Tue | 8:00 a.m. - 10:00 a.m. |
| BIOL_V 300-123 | BIOL_V | 300 | 123 | Fundamentals of Biostatistics | 1.0 | In Person Learning | Tue | 11:00 a.m. - 1:00 p.m. |
| BIOL_V 300-124 | BIOL_V | 300 | 124 | Fundamentals of Biostatistics | 1.0 | In Person Learning | Mon | 9:00 a.m. - 11:00 a.m. |
| BIOL_V 300-125 | BIOL_V | 300 | 125 | Fundamentals of Biostatistics | 1.0 | In Person Learning | Wed | 9:00 a.m. - 11:00 a.m. |
| BIOL_V 300-126 | BIOL_V | 300 | 126 | Fundamentals of Biostatistics | 1.0 | In Person Learning | Thu | 8:00 a.m. - 10:00 a.m. |
| BIOL_V 300-127 | BIOL_V | 300 | 127 | Fundamentals of Biostatistics | 1.0 | In Person Learning | Fri | 9:00 a.m. - 11:00 a.m. |
| BIOL_V 300-128 | BIOL_V | 300 | 128 | Fundamentals of Biostatistics | 1.0 | In Person Learning | Fri | 12:00 p.m. - 2:00 p.m. |
| BIOL_V 300-129 | BIOL_V | 300 | 129 | Fundamentals of Biostatistics | 1.0 | In Person Learning | Wed | 2:00 p.m. - 4:00 p.m. |
| BIOL_V 300-130 | BIOL_V | 300 | 130 | Fundamentals of Biostatistics | 1.0 | In Person Learning | Thu | 11:00 a.m. - 1:00 p.m. |
| BIOL_V 300-131 | BIOL_V | 300 | 131 | Fundamentals of Biostatistics | 1.0 | In Person Learning | Tue | 2:00 p.m. - 4:00 p.m. |
Biol V 300-132
Biol V 300 L10 Fundamentals of Biostatistics
W2 Statistical procedures for biological research; estimation, hypothesis testing, goodness of fit, analysis of variance and regression; use of computer 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 [3-3*-0] Prerequisite: One of BIOC 121, SCIE 001. Corequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Wed 1:00 p.m. - 2:00 p.m.

Biol V 300-133
Biol V 300 L10 Fundamentals of Biostatistics
W2 Statistical procedures for biological research; estimation, hypothesis testing, goodness of fit, analysis of variance and regression; use of computer 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 [3-3*-0] Prerequisite: One of BIOC 121, SCIE 001. Corequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Thu 2:00 p.m. - 4:00 p.m.

Biol V 300-134
Biol V 300 L16 Fundamentals of Biostatistics
W2 Statistical procedures for biological research; estimation, hypothesis testing, goodness of fit, analysis of variance and regression; use of computer 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 [3-3*-0] Prerequisite: One of BIOC 121, SCIE 001. Corequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Fri 2:00 p.m. - 4:00 p.m.

Biol V 301-101
Biol V 301 301 Biomathematics
W1 Introduction to uses of mathematics in the biological sciences; experimental design and modelling of biological processes. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Recommended co-requisites: one of BIOC 100, STAT 200. [3-0-2] In Person Learning Tue Thu 8:00 a.m. - 9:30 a.m.

Biol V 301-101
Biol V 301 201 Biomathematics
W2 Introduction to uses of mathematics in the biological sciences; experimental design and modelling of biological processes. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Recommended co-requisites: one of BIOC 100, STAT 200. [3-0-2] In Person Learning Arranged Arranged

Biol V 301-101
Biol V 301 701 Biomathematics
W1 Introduction to uses of mathematics in the biological sciences; experimental design and modelling of biological processes. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Recommended co-requisites: one of BIOC 100, STAT 200. [3-0-2] In Person Learning Tue 1:00 p.m. - 2:00 p.m.

Biol V 301-102
Biol V 301 301 Biomathematics
W1 Introduction to uses of mathematics in the biological sciences; experimental design and modelling of biological processes. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Recommended co-requisites: one of BIOC 100, STAT 200. [3-0-2] In Person Learning Tue 2:00 p.m. - 3:00 p.m.

Biol V 301-102
Biol V 301 740 Biomathematics
W2 Introduction to uses of mathematics in the biological sciences; experimental design and modelling of biological processes. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Recommended co-requisites: one of BIOC 100, STAT 200. [3-0-2] In Person Learning Arranged Arranged

Biol V 301-102
Biol V 301 741 Biomathematics
W2 Introduction to uses of mathematics in the biological sciences; experimental design and modelling of biological processes. Please consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Recommended co-requisites: one of BIOC 100, STAT 200. [3-0-2] In Person Learning Arranged Arranged

Biol V 302-201
Biol V 302 201 Biodiversity, Human & Planetary Health
W2 Effects of biodiversity on human health, from human microbiome to ecosystem. Strategies for protecting, resisting and managing for biodiversity, human and planetary health. [3-0-1] Prerequisite: One of BIOC 111, BIOC 121, BIOS 207, SCIE 001 and third-year class standing. In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.

Biol V 302-201
Biol V 302 701 Biodiversity, Human & Planetary Health
W2 Effects of biodiversity on human health, from human microbiome to ecosystem. Strategies for protecting, resisting and managing for biodiversity, human and planetary health. [3-0-1] Prerequisite: One of BIOC 111, BIOC 121, BIOS 207, SCIE 001 and third-year class standing. In Person Learning Wed 2:00 p.m. - 3:00 p.m.

Biol V 302-201
Biol V 302 702 Biodiversity, Human & Planetary Health
W2 Effects of biodiversity on human health, from human microbiome to ecosystem. Strategies for protecting, resisting and managing for biodiversity, human and planetary health. [3-0-1] Prerequisite: One of BIOC 111, BIOC 121, BIOS 207, SCIE 001 and third-year class standing. In Person Learning Wed 10:00 a.m. - 11:00 a.m.

Biol V 303-201
Biol V 303 201 Green Planet: Biology and History of Plants that Changed Civilizations
W2 Biological, cultural, and societal significance of staple crops selected as foods, medicines or raw materials by different societies, and their present role in the rich and full diet and food productions civilizations. [3-0-1] Prerequisite: A minimum of 1st year standing. In Person Learning Mon Wed Fri 9:00 a.m. - 10:00 a.m.

Biol V 306-101
Biol V 306 301 Advanced Ecology
W1 Ecology of populations, communities and ecosystems. Tests of ecological theory with experiments and application to environmental issues. Labs meet one 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 [3-0-1] Prerequisite: BIOC 230. In Person Learning Mon Wed Fri 11:00 a.m. - 12:30 p.m.

Biol V 306-101
Biol V 306 101 Advanced Ecology
W1 Ecology of populations, communities and ecosystems. Tests of ecological theory with experiments and application to environmental issues. Labs meet one 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 [3-0-1] Prerequisite: BIOC 230. In Person Learning Tue 3:00 p.m. - 5:00 p.m.

Biol V 306-102
Biol V 306 102 Advanced Ecology
W1 Ecology of populations, communities and ecosystems. Tests of ecological theory with experiments and application to environmental issues. Labs meet one 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 [3-0-1] Prerequisite: BIOC 230. In Person Learning Tue 3:00 p.m. - 5:00 p.m.

Biol V 306-103
Biol V 306 103 Advanced Ecology
W1 Ecology of populations, communities and ecosystems. Tests of ecological theory with experiments and application to environmental issues. Labs meet one 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 [3-0-1] Prerequisite: BIOC 230. In Person Learning Thu 2:00 p.m. - 5:00 p.m.

Biol V 306-104
Biol V 306 104 Advanced Ecology
W1 Ecology of populations, communities and ecosystems. Tests of ecological theory with experiments and application to environmental issues. Labs meet one 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 [3-0-1] Prerequisite: BIOC 230. In Person Learning Fri 2:00 p.m. - 5:00 p.m.

Biol V 306-105
Biol V 306 105 Advanced Ecology
W1 Ecology of populations, communities and ecosystems. Tests of ecological theory with experiments and application to environmental issues. Labs meet one 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 [3-0-1] Prerequisite: BIOC 230. In Person Learning Fri 2:00 p.m. - 5:00 p.m.


Prerequisite: BIOL 230.

Ecology of populations, communities and ecosystems. Tests of ecological theory with experiments and application to environmental issues. Labs meet one 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. 

Prerequisite: BIOL 230.
<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>Instructor</th>
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<tbody>
<tr>
<td>BIOL_V 310-201</td>
<td>310</td>
<td>3</td>
<td>Introduction to Animal Behavior</td>
<td>TUE THU</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<td>310</td>
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<td>Introduction to Animal Behavior</td>
<td>TUE</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>310</td>
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<td>Introduction to Animal Behavior</td>
<td>THU</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>310</td>
<td>1</td>
<td>Introduction to Animal Behavior</td>
<td>WED</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>BIOL_V 314-201</td>
<td>314</td>
<td>1</td>
<td>Elements of Biodiversity</td>
<td>WED</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>BIOL_V 320-201</td>
<td>320</td>
<td>3</td>
<td>Survey of Algae</td>
<td>TUE THU</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<td>BIOL_V 320-121</td>
<td>320</td>
<td>1</td>
<td>Survey of Algae</td>
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<td>10:00 a.m. - 11:00 a.m.</td>
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<td>320</td>
<td>1</td>
<td>Survey of Algae</td>
<td>WED</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<td>BIOL_V 320-123</td>
<td>320</td>
<td>1</td>
<td>Survey of Algae</td>
<td>FRI</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>BIOL_V 320-124</td>
<td>320</td>
<td>1</td>
<td>Survey of Algae</td>
<td>WED</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>BIOL_V 321-201</td>
<td>321</td>
<td>3</td>
<td>Morphology and Evolution of Bryophytes</td>
<td>TUE THU</td>
<td>9:30 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<td>BIOL_V 323-101</td>
<td>323</td>
<td>1</td>
<td>Morphology and Evolution of Bryophytes</td>
<td>WED</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>BIOL_V 323-101</td>
<td>323</td>
<td>1</td>
<td>Morphology and Evolution of Bryophytes</td>
<td>WED</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>BIOL_V 323-101</td>
<td>323</td>
<td>1</td>
<td>Morphology and Evolution of Bryophytes</td>
<td>WED</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>BIOL_V 323-111</td>
<td>323</td>
<td>1</td>
<td>Structure and Reproduction of Fungi</td>
<td>TUE</td>
<td>9:30 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
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<td>BIOL_V 323-111</td>
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<td>1</td>
<td>Structure and Reproduction of Fungi</td>
<td>TUE</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>2:00 p.m. - 3:00 p.m.</td>
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<td>BIOL_V 323-701</td>
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<td>BIOL_V 323-702</td>
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<tr>
<td>BIOL_V 324-101</td>
<td>324</td>
<td>3</td>
<td>Introduction to Seed Plant Taxonomy</td>
<td>TUE THU</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<td>Introduction to Seed Plant Taxonomy</td>
<td>TUE</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>1</td>
<td>Introduction to Seed Plant Taxonomy</td>
<td>THU</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>TUE</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>BIOL_V 325-101</td>
<td>325</td>
<td>1</td>
<td>Introduction to Animal Mechanics and Locomotion</td>
<td>TUE</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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**Course Notes:**
- BIOL_V 310-201: 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.
- BIOL_V 310-101: 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.
- BIOL_V 310-102: 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.
- BIOL_V 310-103: 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.
- BIOL_V 314-201: Elements of Biodiversity
- BIOL_V 320-201: Survey of Algae
- BIOL_V 320-121: Survey of Algae
- BIOL_V 320-122: Survey of Algae
- BIOL_V 320-123: Survey of Algae
- BIOL_V 320-124: Survey of Algae
- BIOL_V 321-201: Morphology and Evolution of Bryophytes
- BIOL_V 323-101: Morphology and Evolution of Bryophytes
- BIOL_V 323-111: Structure and Reproduction of Fungi
- BIOL_V 323-111: Structure and Reproduction of Fungi
- BIOL_V 323-112: Structure and Reproduction of Fungi
- BIOL_V 323-701: Structure and Reproduction of Fungi
- BIOL_V 323-702: Structure and Reproduction of Fungi
- BIOL_V 324-101: Introduction to Seed Plant Taxonomy
- BIOL_V 324-101: Introduction to Seed Plant Taxonomy
- BIOL_V 324-101: Introduction to Seed Plant Taxonomy
- BIOL_V 324-102: Introduction to Seed Plant Taxonomy
- BIOL_V 324-102: Introduction to Seed Plant Taxonomy
- BIOL_V 325-101: Introduction to Animal Mechanics and Locomotion
- BIOL_V 325-101: Introduction to Animal Mechanics and Locomotion
- BIOL_V 326-201: Experimental Biology of Invertebrates
- BIOL_V 326-101: Experimental Biology of Invertebrates
A survey of the structure, classification and biology of insects; ecology, life-histories and insect-plant relations. Prerequisite: One of BIOL 121, SCIE 001. Equivalency: APB I327

In Person Learning

Tue Thu

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

BIOL V 327-L01

BIOL V 327-101

Introduction to Entomology

W1

A survey of the structure, classification and biology of insects; ecology, life-histories and insect-plant relations. Prerequisite: One of BIOL 121, SCIE 001. Equivalency: APB I327

In Person Learning

Thu

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

BIOL V 327-L11

BIOL V 327-111

Introduction to Entomology

W1

A survey of the structure, classification and biology of insects; ecology, life-histories and insect-plant relations. Prerequisite: One of BIOL 121, SCIE 001. Equivalency: APB I327

In Person Learning

Thu

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

BIOL V 327-L12

BIOL V 327-112

Introduction to Entomology

W1

A survey of the structure, classification and biology of insects; ecology, life-histories and insect-plant relations. Prerequisite: One of BIOL 121, SCIE 001. Equivalency: APB I327

In Person Learning

Thu

1:30 p.m. - 3:30 p.m.

BIOL V 327-L13

BIOL V 327-113

Introduction to Entomology

W1

A survey of the structure, classification and biology of insects; ecology, life-histories and insect-plant relations. Prerequisite: One of BIOL 121, SCIE 001. Equivalency: APB I327

In Person Learning

Thu

1:30 p.m. - 3:30 p.m.

BIOL V 327-L14

BIOL V 327-114

Introduction to Entomology

W1

Morphology, life histories, ecology and evolution of parasites (and infectious agents more broadly) infecting humans and animals. [2-0-0] Prerequisite: BIO SCI 121

In Person Learning

Wed Fri

3:00 a.m. - 11:00 a.m.

BIOL V 328-201

BIOL V 328-201

Ecology and Evolution of Parasites

W2

Morphology, life histories, ecology and evolution of parasites (and infectious agents more broadly) infecting humans and animals. [2-0-0] Prerequisite: BIO SCI 121

In Person Learning

Wed

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

BIOL V 328-101

BIOL V 328-101

Ecology and Evolution of Parasites

W2

How cells react to external signals, and how these responses are regulated. Experimental approaches and common themes will be examined using a variety of cell receptors as models. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: BIOC 203

In Person Learning

Mon Wed Fri

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

BIOL V 329-201

BIOL V 329-201

Cell Receptor Signaling, Communication and Regulation

W1

How cells react to external signals, and how these responses are regulated. Experimental approaches and common themes will be examined using a variety of cell receptors as models. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: BIOC 203

In Person Learning

Arranged

Arranged

BIOL V 329-29W1

BIOL V 329-29W1

Cell Receptor Signaling, Communication and Regulation

W2

How cells react to external signals, and how these responses are regulated. Experimental approaches and common themes will be examined using a variety of cell receptors as models. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: BIOC 203

In Person Learning

Mon Wed Fri

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

BIOL V 331-101

BIOL V 331-101

Developmental Biology

W1

Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOC 201, or (b) all of BIOC 200, BIOC 202 and one of BIOC 233, BIOC 234

In Person Learning

Mon Wed Fri

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

BIOL V 331-201

BIOL V 331-201

Developmental Biology

W2

Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOC 201, or (b) all of BIOC 200, BIOC 202 and one of BIOC 233, BIOC 234

In Person Learning

Mon Wed Fri

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

BIOL V 331-L01

BIOL V 331-101

Developmental Biology

W2

Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOC 201, or (b) all of BIOC 200, BIOC 202 and one of BIOC 233, BIOC 234

In Person Learning

Mon

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

BIOL V 331-L02

BIOL V 331-102

Developmental Biology

W2

Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOC 201, or (b) all of BIOC 200, BIOC 202 and one of BIOC 233, BIOC 234

In Person Learning

Tue

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

BIOL V 331-L03

BIOL V 331-103

Developmental Biology

W2

Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOC 201, or (b) all of BIOC 200, BIOC 202 and one of BIOC 233, BIOC 234

In Person Learning

Wed

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

BIOL V 331-L121

BIOL V 331-121

Developmental Biology

W1

Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOC 201, or (b) all of BIOC 200, BIOC 202 and one of BIOC 233, BIOC 234

In Person Learning

Mon

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

BIOL V 331-L123

BIOL V 331-123

Developmental Biology

W1

Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOC 201, or (b) all of BIOC 200, BIOC 202 and one of BIOC 233, BIOC 234

In Person Learning

Tue

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

BIOL V 331-L125

BIOL V 331-125

Developmental Biology

W1

Animal development and its underlying causal principles; introductory embryology. [3-5-0] Prerequisite: Either (a) BIOC 201, or (b) all of BIOC 200, BIOC 202 and one of BIOC 233, BIOC 234

In Person Learning

Wed

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

BIOL V 332-201

BIOL V 332-201

Protistology

W2

Cell biology, ecology, and evolution of protists; origins of multicellularity; the role of protists in micropaleontology, parasitology, and oceanography. [3-3-0] Prerequisite: BIOL 200

In Person Learning

Tue Thu

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

BIOL V 332-201

BIOL V 332-201

Protistology

W2

Cell biology, ecology, and evolution of protists; origins of multicellularity; the role of protists in micropaleontology, parasitology, and oceanography. [3-3-0] Prerequisite: BIOL 200

In Person Learning

Mon

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

BIOL V 335-L01

BIOL V 335-201

Molecular Genetics

W2

Isolation and identification of genes, analysis of gene structure, gene expression and its regulation in prokaryotes and in eukaryotes; developmental genetics. [3-0-2] Prerequisite: One of BIOC 233, BIOC 234, MCRB 222, FRST 302

In Person Learning

Mon Wed Fri

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

BIOL V 335-202

BIOL V 335-202

Molecular Genetics

W2

Isolation and identification of genes, analysis of gene structure, gene expression and its regulation in prokaryotes and in eukaryotes; developmental genetics. [3-0-2] Prerequisite: One of BIOC 233, BIOC 234, MCRB 222, FRST 302

In Person Learning

Mon Wed Fri

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

BIOL V 335-T51

BIOL V 335-T51

Molecular Genetics

W2

Isolation and identification of genes, analysis of gene structure, gene expression and its regulation in prokaryotes and in eukaryotes; developmental genetics. [3-0-2] Prerequisite: One of BIOC 233, BIOC 234, MCRB 222, FRST 302

In Person Learning

Mon

2:00 p.m. - 4:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Time (Mon-Fri)</th>
<th>Location</th>
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<td>3-0-0</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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**Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution.**

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<td>3-0-2</td>
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<td>2:00 p.m. - 4:00 p.m.</td>
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<td>3-0-2</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<td>BIOL_V 336-106</td>
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<td>3-0-2</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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**Natural selection; population genetics, quantitative genetics and systematics; classical and molecular approaches to the study of evolution.**
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<th>Section</th>
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<th>Title</th>
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<td>11:00 a.m. - 12:00 p.m.</td>
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<td>Fundamentals of Evolutionary Biology</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
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<td>BIOL_V 336-T08</td>
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<td>336</td>
<td>Fundamentals of Evolutionary Biology</td>
<td>W2</td>
<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
<td>In Person Learning: Wed 11:00 a.m. - 12:00 p.m.</td>
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<td>BIOL_V 336-T09</td>
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<td>336</td>
<td>Fundamentals of Evolutionary Biology</td>
<td>W2</td>
<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
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<td>BIOL_V 336-T10</td>
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<td>Fundamentals of Evolutionary Biology</td>
<td>W2</td>
<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
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<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
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<td>BIOL_V 336-T12</td>
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<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
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<td>BIOL_V 336-T13</td>
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<td>Fundamentals of Evolutionary Biology</td>
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<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
<td>In Person Learning: Thu 9:00 a.m. - 10:00 a.m.</td>
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<td>BIOL_V 336-T14</td>
<td>T14</td>
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<td>336</td>
<td>Fundamentals of Evolutionary Biology</td>
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<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
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<tr>
<td>BIOL_V 336-T40</td>
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<td>T40</td>
<td>Fundamentals of Evolutionary Biology</td>
<td>W1</td>
<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
<td>In Person Learning: Tue 1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>BIOL_V 336-T41</td>
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<td>T41</td>
<td>Fundamentals of Evolutionary Biology</td>
<td>W1</td>
<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
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<td>BIOL_V 336-T42</td>
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<td>T42</td>
<td>Fundamentals of Evolutionary Biology</td>
<td>W1</td>
<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
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<td>T43</td>
<td>Fundamentals of Evolutionary Biology</td>
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<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
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<td>Fundamentals of Evolutionary Biology</td>
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<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
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<td>Fundamentals of Evolutionary Biology</td>
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<td>T46</td>
<td>Fundamentals of Evolutionary Biology</td>
<td>W1</td>
<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
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<td>In Person Learning</td>
<td>T47</td>
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<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
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<td>BIOL_V 336-T50</td>
<td>T50</td>
<td>In Person Learning</td>
<td>T50</td>
<td>Fundamentals of Evolutionary Biology</td>
<td>W1</td>
<td>Natural selection; population genetics, quantitative genetics and systems; classical and molecular approaches to the study of evolution. [3-0-1.5] Prerequisite: One of BIOL 233, BIOL 234.</td>
<td>In Person Learning: Wed 4:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>BIOL_V 337-T01</td>
<td>T01</td>
<td>In Person Learning</td>
<td>T01</td>
<td>Introductory Genetics Laboratory</td>
<td>W2</td>
<td>Introductory Genetics Laboratory</td>
<td>In Person Learning: Tue Thu 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>BIOL_V 337-T02</td>
<td>T02</td>
<td>In Person Learning</td>
<td>T02</td>
<td>Introductory Genetics Laboratory</td>
<td>W2</td>
<td>Introductory Genetics Laboratory</td>
<td>In Person Learning: Wed Fri 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>BIOL_V 338-T01</td>
<td>T01</td>
<td>In Person Learning</td>
<td>T01</td>
<td>Introduction to Genomics</td>
<td>W1</td>
<td>An introduction to genome biology and applications of genomics. [0-0-1.5] Prerequisite: One of BIOL 234, BIOL 272, FRST 302.</td>
<td>In Person Learning: Mon Wed Fri 9:00 a.m. - 10:00 a.m.</td>
</tr>
<tr>
<td>BIOL_V 338-T02</td>
<td>T02</td>
<td>In Person Learning</td>
<td>T02</td>
<td>Introduction to Genomics</td>
<td>W1</td>
<td>An introduction to genome biology and applications of genomics. [0-0-1.5] Prerequisite: One of BIOL 234, BIOL 272, FRST 302.</td>
<td>In Person Learning: Wed Fri 11:00 a.m. - 12:30 p.m.</td>
</tr>
</tbody>
</table>
Introduction to Genomics

Introductory Cell Biology Laboratory

In Person Learning

101
Tue
341
10:00 a.m. - 11:00 a.m.

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

341
W2
12:30 p.m. - 2:00 p.m.

In Person Learning

L05
341
Tue
L04
W1

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

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

T02
W1

Introductory Cell Biology Laboratory

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

W1

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

W2

Introductory Molecular Biology Laboratory

2:00 p.m. - 5:00 p.m.
3:00 p.m. - 5:00 p.m.  
In Person Learning

342-101

Integrative Biology Laboratory

342 101

BIOL_V

Field-based and laboratory-based investigation of organisms. [1-3-0] Prerequisite: Third-year standing or higher in Combined Major in Science, and one of (a) BIOL 121 and BIOL 180 or BIOL 234, or (b) SCI 101, or (c) 8 transfer credits of first-year biology. In Person Learning Mon 8:00 a.m. - 10:00 a.m.

342-111

Integrative Biology Laboratory

342 111

BIOL_V

Field-based and laboratory-based investigation of organisms. [1-3-0] Prerequisite: Third-year standing or higher in Combined Major in Science, and one of (a) BIOL 121 and BIOL 180 or BIOL 234, or (b) SCI 101, or (c) 8 transfer credits of first-year biology. In Person Learning Tue 9:30 a.m. - 12:30 p.m.

342-112

Integrative Biology Laboratory

342 112

BIOL_V

Field-based and laboratory-based investigation of organisms. [1-3-0] Prerequisite: Third-year standing or higher in Combined Major in Science, and one of (a) BIOL 121 and BIOL 180 or BIOL 234, or (b) SCI 101, or (c) 8 transfer credits of first-year biology. In Person Learning Tue 2:00 p.m. - 5:00 p.m.

342-114

Integrative Biology Laboratory

342 114

BIOL_V

Field-based and laboratory-based investigation of organisms. [1-3-0] Prerequisite: Third-year standing or higher in Combined Major in Science, and one of (a) BIOL 121 and BIOL 180 or BIOL 234, or (b) SCI 101, or (c) 8 transfer credits of first-year biology. In Person Learning Wed 2:00 p.m. - 5:00 p.m.

342-116

Integrative Biology Laboratory

342 116

BIOL_V

Field-based and laboratory-based investigation of organisms. [1-3-0] Prerequisite: Third-year standing or higher in Combined Major in Science, and one of (a) BIOL 121 and BIOL 180 or BIOL 234, or (b) SCI 101, or (c) 8 transfer credits of first-year biology. In Person Learning Thu 2:00 p.m. - 5:00 p.m.

344-101

Biology and Evolution

344 101

BIOL_V

Behavioral and evolutionary perspectives on humans. Primarily for upper-level students in the Faculty of Arts. Credit will be granted for only one of BIOL 121 or BIOL 344. Open to students in the Life Sciences. [3-0-2] In Person Learning Mon Wed Fri 12:00 p.m. - 1:00 p.m.

344-750

Biology and Evolution

344 750

BIOL_V

Behavioral and evolutionary perspectives on humans. Primarily for upper-level students in the Faculty of Arts. Credit will be granted for only one of BIOL 121 or BIOL 344. Open to students in the Life Sciences. [3-0-2] In Person Learning Mon 3:00 p.m. - 5:00 p.m.

344-752

Biology and Evolution

344 752

BIOL_V

Behavioral and evolutionary perspectives on humans. Primarily for upper-level students in the Faculty of Arts. Credit will be granted for only one of BIOL 121 or BIOL 344. Open to students in the Life Sciences. [3-0-2] In Person Learning Fri 3:00 p.m. - 5:00 p.m.

345-201

Human Ecology

345 201

BIOL_V

An introductory course in molecular biology primarily for Arts students. The historical development of modern discoveries in molecular biology with emphasis on bacteria, viruses, and their interaction with humans. Informal credit. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

346-201

Microbes and Society

346 201

BIOL_V

An introductory course in molecular biology primarily for Arts students. The historical development of modern discoveries in molecular biology with emphasis on bacteria, viruses, and their interaction with humans. Informal credit. In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.

347-101

Principles and Methodologies in Biological Research

347 101

BIOL_V

An introductory course in molecular biology primarily for Arts students. The historical development of modern discoveries in molecular biology with emphasis on bacteria, viruses, and their interaction with humans. Informal credit. In Person Learning Fri 2:00 p.m. - 4:00 p.m.

348-101

Biology of Cacaoa

348 101

BIOL_V

Field-based and laboratory-based investigation of organisms. [1-3-0] Prerequisite: Third-year standing or higher in Combined Major in Science, and one of (a) BIOL 121 and BIOL 180 or BIOL 234, or (b) SCI 101, or (c) 8 transfer credits of first-year biology. In Person Learning Thu 3:30 p.m. - 5:00 p.m.

350-101

Dowhill Medicine

350 101

BIOL_V


350-201

Dowhill Medicine

350 201

BIOL_V

Using the Darwinian theory of natural selection to explore explanations of infectious diseases, allergens, cancer, mental illness, and other human diseases. Please consult the Faculty of Science Credit Exclusion Lists: www.vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/faculty-science/credit-exclusions-2022-02-Prerequisite. Third-year standing. Equivalency: SCI 250. In Person Learning Tue Thu 2:00 p.m. - 4:00 p.m.

351-101

Plant Physiology I

351 101

BIOL_V

Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. Restricted to Majors and Honours students in Biology. [3-0-0] Prerequisite: Either (a) BIOL 233 or (b) FRST 302. CHEM 233 is recommended. Equivalency: APBI351, FRST311. In Person Learning Mon 3:00 p.m. - 5:00 p.m.

351-110

Plant Physiology I

351 110

BIOL_V

Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. Restricted to Majors and Honours students in Biology. [3-0-0] Prerequisite: Either (a) BIOL 233 or (b) FRST 302. CHEM 233 is recommended. Equivalency: APBI351, FRST311. In Person Learning Tue 9:00 a.m. - 11:00 a.m.

351-111

Plant Physiology I

351 111

BIOL_V

Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. Restricted to Majors and Honours students in Biology. [3-0-0] Prerequisite: Either (a) BIOL 233 or (b) FRST 302. CHEM 233 is recommended. Equivalency: APBI351, FRST311. In Person Learning Tue 2:00 p.m. - 5:00 p.m.

351-112

Plant Physiology I

351 112

BIOL_V

Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. Restricted to Majors and Honours students in Biology. [3-0-0] Prerequisite: Either (a) BIOL 233 or (b) FRST 302. CHEM 233 is recommended. Equivalency: APBI351, FRST311. In Person Learning Wed 2:00 p.m. - 5:00 p.m.

351-113

Plant Physiology I

351 113

BIOL_V

Mechanisms and regulation of functional processes contributing to the assimilation, transport and utilization of water, mineral nutrients and carbon by plants. Restricted to Majors and Honours students in Biology. [3-0-0] Prerequisite: Either (a) BIOL 233 or (b) FRST 302. CHEM 233 is recommended. Equivalency: APBI351, FRST311. In Person Learning Thu 2:00 p.m. - 5:00 p.m.

352-201

Plant Physiology II: Plant Development

352 201

BIOL_V

Introduction to the processes involved in growth and development; cell division, tissue culture, meristems, differentiation, and the action of major growth regulators, and photosynthesis. Emphasis on experimental approaches. [3-3-0] Prerequisite: Either (a) BIOL 350 and one of BIOL 233, BIOL 344, or (b) 8 transfer credits of first-year biology. In Person Learning Mon Wed Fri 10:00 a.m. - 12:00 p.m.

352-121

Plant Physiology II: Plant Development

352 121

BIOL_V

Introduction to the processes involved in growth and development; cell division, tissue culture, meristems, differentiation, and the action of major growth regulators, and photosynthesis. Emphasis on experimental approaches. [3-3-0] Prerequisite: Either (a) BIOL 350 and one of BIOL 233, BIOL 344, or (b) 8 transfer credits of first-year biology. In Person Learning Mon Wed Fri 10:00 a.m. - 12:00 p.m.
Plant Physiology II: Plant Development

Laboratory in Animal Physiology

In Person Learning

Nutritional Sciences and Combined Honours Biophysics. Recommended co-requisites: one of BIOL 361, BIOL 370, BIOL 371. [1-3-1] Prerequisite: BIOL 204.

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.

The cytoskeleton, cell dynamics, and regulation of cellular activities. Preference will be given to Majors or Honours students in Biology and Combined Honours Biophysics. [3-3-0] Prerequisite: BIOL 204 and one of APBI 312, APBI 351, BIOL 260, BIOL 351, BIOL 352, BIOL 361, FIRST 311. 

In Person Learning Tue Thu

1:00 p.m. - 2:00 p.m. 11:00 a.m. - 12:30 p.m.

Laboratory in Animal Physiology

Introduction to the processes involved in growth and development: cell division, tissue culture, meristems, differentiation, and the action of major growth regulators, and photomorphogenesis. Emphasis on experimental approaches. [2-3-1] Prerequisite: Either (a) BIOL 200 and one of BIOL 233, BIOL 234; or (b) FIRST 302. CHEM 233 is recommended.

In Person Learning Tue

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

Laboratory in Animal Physiology

Introduction to the processes involved in growth and development: cell division, tissue culture, meristems, differentiation, and the action of major growth regulators, and photomorphogenesis. Emphasis on experimental approaches. [2-3-1] Prerequisite: Either (a) BIOL 200 and one of BIOL 233, BIOL 234; or (b) FIRST 302. CHEM 233 is recommended.

In Person Learning Wed

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

Laboratory in Animal Physiology

Introduction to the processes involved in growth and development: cell division, tissue culture, meristems, differentiation, and the action of major growth regulators, and photomorphogenesis. Emphasis on experimental approaches. [2-3-1] Prerequisite: Either (a) BIOL 200 and one of BIOL 233, BIOL 234; or (b) FIRST 302. CHEM 233 is recommended.

In Person Learning Thu

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

Laboratory in Animal Physiology

Introduction to the processes involved in growth and development: cell division, tissue culture, meristems, differentiation, and the action of major growth regulators, and photomorphogenesis. Emphasis on experimental approaches. [2-3-1] Prerequisite: Either (a) BIOL 200 and one of BIOL 233, BIOL 234; or (b) FIRST 302. CHEM 233 is recommended.

In Person Learning Fri

3:00 p.m. - 4:30 p.m.

Laboratory in Animal Physiology

Introduction to the processes involved in growth and development: cell division, tissue culture, meristems, differentiation, and the action of major growth regulators, and photomorphogenesis. Emphasis on experimental approaches. [2-3-1] Prerequisite: Either (a) BIOL 200 and one of BIOL 233, BIOL 234; or (b) FIRST 302. CHEM 233 is recommended.

In Person Learning Fri

3:00 p.m. - 4:30 p.m.
Experimental studies in animal physiology. Restricted to Majors and Honours students in Biology, Nutritional Sciences and Combined Resource Biophysics. Recommended co-requisite: one of BIOL 365, BIOL 370, BIOL 371. (3-0-0) Prerequisite: BIOL 204.

In Person-Learning
Fri 4:00 p.m. - 5:00 p.m.

Comparative Cardiovascular: Respiratory and Dormant Physiology

Cardiovascular, respiratory, and sleep physiology. Preference will be given to students who are in Biology, Nutritional Sciences, and Combined Human Biophysics. (3-0-0) Prerequisite: BIOL 204 and one of BIOL 261, BIOL 341. Equivalency: BIOL 301.

In Person-Learning
Mon/Wed Fri
11:00 a.m. - 12:30 p.m.

Principles of Muscle Physiology and Energetics

Introduction to the structure and function of the muscular system, metabolism and energetics from a comparative perspective across vertebrates and invertebrates. [3-0-0] Prerequisite: BIOL 260 and one of BIOL 202, BIOL 292, BIOL 293, BIOL 393. 

In Person-Learning
Tue Thu
3:00 p.m. - 4:30 p.m.

Principles of Neurobiology I

Introduction to the structure and function of the nervous system, excitable membranes, and synaptic signaling using representative vertebrate and invertebrate species. 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: BIOL 260 and one of BIOL 261, BIOL 292, BIOL 293, BIOL 341. 

In Person-Learning
Tue Thu
11:00 a.m. - 12:30 p.m.

In Person-Learning

W1

Principles of Neurobiology II

Examination of the neural systems underlying sensation, action, and complex behaviors using representative vertebrate and invertebrate species. 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: BIOL 371. 

In Person-Learning
Tue Thu
11:00 a.m. - 12:30 p.m.

Co-operative Work Placement I

Work experience in an industrial setting, taken during Winter Session (Term 2) of third year. Restricted to students admitted to the Co-operative Education Program in Biology. This course is not eligible for Credit/D/Fail grading. 

In Person-Learning
Arranged

Co-operative Work Placement II

Work experience in an industrial setting, taken during Winter Session (Term 2) of third year. Restricted to students admitted to the Co-operative Education Program in Biology. This course is not eligible for Credit/D/Fail grading. 

In Person-Learning
Arranged

Co-operative Work Placement III

Work experience in an industrial setting, taken during Summer Session (Terms 1 and 2) of third year. Restricted to students admitted to the Co-operative Education Program in Biology. This course is not eligible for Credit/D/Fail grading. 

In Person-Learning
Arranged

Co-operative Work Placement IV

Work experience in an industrial setting, taken during Summer Session (Terms 1 and 2) of following third year. Restricted to students admitted to the Co-operative Education Program in Biology. This course is not eligible for Credit/D/Fail grading. 

In Person-Learning
Arranged

Co-operative Work Placement V

Research project development through critical analysis of microbial ecological literature and computational analysis of ecological data. This course is not eligible for Credit/D/Fail grading. 

In Person-Learning
Arranged

Aquatic Ecology

Theoretical and applied limnology: ecology of inland water organisms in relation to physical, chemical and biological factors. One weekend field trip required. [2-4-0] Prerequisite: BIOL 202 and one of BIOL 480, STAT 201. 

In Person-Learning
Tue
9:30 a.m. - 11:00 a.m.

Aquatic Ecology

Theoretical and applied limnology: ecology of inland water organisms in relation to physical, chemical and biological factors. One weekend field trip required. [2-4-0] Prerequisite: BIOL 202 and one of BIOL 480, STAT 201. 

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

Microbial Ecology

Theoretical and applied ecology of microbes. Focus on microbial symbionts of animals, plants and seaweeds. Research project development through critical analysis of microbial ecological literature and computational analysis of ecological data. This course is not eligible for Credit/D/Fail grading. 

In Person-Learning
Mon
11:00 a.m. - 12:30 p.m.

Microbial Ecology

Theoretical and applied ecology of microbes. Focus on microbial symbionts of animals, plants and seaweeds. Research project development through critical analysis of microbial ecological literature and computational analysis of ecological data. This course is not eligible for Credit/D/Fail grading. 

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

Ecological Methodology

Design, execution and analysis of ecological surveys and experiments. Practical/field methods for estimating population metrics and describing community structure. Computer techniques for the statistical analysis of ecological data. (2-4-0) Prerequisite: BIOL 101 and one of BIOL 200, STAT 201. 

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

Ecological Methodology

Design, execution and analysis of ecological surveys and experiments. Practical/field methods for estimating population metrics and describing community structure. Computer techniques for the statistical analysis of ecological data. (2-4-0) Prerequisite: BIOL 101 and one of BIOL 200, STAT 201. 

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

Ecological Methodology

Design, execution and analysis of ecological surveys and experiments. Practical/field methods for estimating population metrics and describing community structure. Computer techniques for the statistical analysis of ecological data. (2-4-0) Prerequisite: BIOL 101 and one of BIOL 200, STAT 201. 

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

Plant Ecology I

Plant community ecology including a consideration of the major approaches to sampling, analyzing and interpreting vegetation patterns. Instruction given in field work and computer analysis of field data. [3-0-0] Prerequisite: BIOL 200, BIOL 201, 204 is recommended. 

In Person-Learning
Tue
9:30 a.m. - 12:00 a.m.

Plant Ecology I

Plant community ecology including a consideration of the major approaches to sampling, analyzing and interpreting vegetation patterns. Instruction given in field work and computer analysis of field data. [3-0-0] Prerequisite: BIOL 200, BIOL 201, 204 is recommended. 

In Person-Learning
Thu
2:00 p.m. - 4:00 p.m.

Plant Ecology I

Plant community ecology including a consideration of the major approaches to sampling, analyzing and interpreting vegetation patterns. Instruction given in field work and computer analysis of field data. [3-0-0] Prerequisite: BIOL 200, BIOL 201, 204 is recommended. 

In Person-Learning
Thu
2:00 p.m. - 4:00 p.m.


BIOL_V 412-201 412 201 Photography W2 Description and interpretation of patterns and processes in vegetation systems. Integration of evolutionary, ecological, and phylogenetic concepts. Terrestrial and aquatic plants are considered. Restricted to students of third and fourth years. [2-0-3] Prerequisite: BIO 121. In Person Learning Tue Thu 3:30 p.m. - 6:00 p.m.

BIOL_V 415-201 415 201 Evolutionary Processes in Plants W1 Experimental and comparative analysis of evolutionary processes, specialization, and phylogenetic patterns in plants. [2-0-4] Prerequisite: BIO 336. In Person Learning Tue Thu 10:00 a.m. - 11:00 a.m.

BIOL_V 415-T01 415 T01 Evolutionary Processes in Plants W1 Experimental and comparative analysis of evolutionary processes, specialization, and phylogenetic patterns in plants. [2-0-4] Prerequisite: BIO 336. In Person Learning Thu 2:00 p.m. - 4:00 p.m.

BIOL_V 416-201 416 201 Principles of Conservation Biology W2 Ecological basis of conserving biological diversity and ecosystem services; application of ecological theory to global and local conservation problems in the context of economic, legal, political, and social perspectives. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/tutorial-exclusion-lists. [2-0-2] Prerequisite: One of BIO 230, FRST 201. In Person Learning Mon Wed 9:00 a.m. - 10:00 a.m.


BIOL_V 416-201 416 201 Principles of Conservation Biology W2 Ecological basis of conserving biological diversity and ecosystem services; application of ecological theory to global and local conservation problems in the context of economic, legal, political, and social perspectives. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/tutorial-exclusion-lists. [2-0-2] Prerequisite: One of BIO 230, FRST 201. In Person Learning Mon Wed 2:00 p.m. - 5:00 p.m.

BIOL_V 416-202 416 202 Principles of Conservation Biology W2 Ecological basis of conserving biological diversity and ecosystem services; application of ecological theory to global and local conservation problems in the context of economic, legal, political, and social perspectives. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/tutorial-exclusion-lists. [2-0-2] Prerequisite: One of BIO 230, FRST 201. In Person Learning Wed 2:00 p.m. - 5:00 p.m.

BIOL_V 417-101 417 101 Phylogenetic Biology W1 Biodiversity focus on evolutionary perspective. The evolutionary (phylogenetic) lineage of genetic descent that links all organisms. Its reconstruction, interpretation, and implications for fields from ecology to molecular biology. [2-0-2] Prerequisite: BIO 100 and one of BIO 230, BIO 234. BIO 356 is recommended. In Person Learning Thu 11:00 a.m. - 12:30 p.m.

BIOL_V 417-121 417 121 Phylogenetic Biology W1 Biodiversity focus on evolutionary perspective. The evolutionary (phylogenetic) lineage of genetic descent that links all organisms. Its reconstruction, interpretation, and implications for fields from ecology to molecular biology. [2-0-2] Prerequisite: BIO 100 and one of BIO 230, BIO 234. BIO 356 is recommended. In Person Learning Thu 2:00 p.m. - 5:00 p.m.

BIOL_V 418-201 418 201 Evolutionary Ecology W1 Evolutionary Ecology W1 Evolutionary Ecology W1 Evolutionary Ecology W1 Evolutionary Ecology W1 Evolutionary Ecology W1 Evolutionary Ecology W1 Evolutionary Ecology W1 Evolutionary Ecology W1

BIOL_V 418-201 418 201 Evolutionary Ecology W1 Evolutional adaptation and evolutionary processes in contemporary populations; natural selection, variation, optimization, mating theory, competition, arms races; the history theory, evolution of sex, sexual selection, evolution in managed populations. [2-2-0] Prerequisite: BIO 336 and BIO 230. In Person Learning Arranged Arranged

BIOL_V 418-201 418 201 Evolutionary Ecology W1 Evolutional adaptation and evolutionary processes in contemporary populations; natural selection, variation, optimization, mating theory, competition, arms races; the history theory, evolution of sex, sexual selection, evolution in managed populations. [2-2-0] Prerequisite: BIO 336 and BIO 230. In Person Learning Arranged Arranged

BIOL_V 418-701 418 701 Evolutionary Ecology W1 In Person Learning Tue Thu 10:00 a.m. - 11:00 a.m.

BIOL_V 420-201 420 201 Ocean Conservation and Sustainability W2 An interdisciplinary conservation course with a solutions-oriented approach to marine issues, drawing from natural sciences, social sciences, business, law, and communications. This course is not eligible for Credit/D/Fail grading. [2-0-4] Prerequisite: Fourth-year standing. In Person Learning Tue Thu 10:00 a.m. - 11:00 a.m.

BIOL_V 420-701 420 701 Ocean Conservation and Sustainability W2 An interdisciplinary conservation course with a solutions-oriented approach to marine issues, drawing from natural sciences, social sciences, business, law, and communications. This course is not eligible for Credit/D/Fail grading. [2-0-4] Prerequisite: Fourth-year standing. In Person Learning Tue Thu 11:00 a.m. - 2:30 p.m.

BIOL_V 421-101 421 101 Plant-Microbe Interactions W1 Biology and physiology of selected plant-microbe relationships. Impacts of plant-microbe relationships on society. [3-0-6] Prerequisite: BIO 200 and one of BIO 202, BIO 203, BIO 201, BIO 233, BIO 234. BIOL 230. Equivalency: APBI 406. In Person Learning Mon Wed Fri 11:00 a.m. - 12:30 p.m.

BIOL_V 421-701 421 701 Plant-Microbe Interactions W1 Biology and physiology of selected plant-microbe relationships. Impacts of plant-microbe relationships on society. [3-0-6] Prerequisite: BIO 200 and one of BIO 202, BIO 203, BIO 201, BIO 233, BIO 234. BIOL 230. Equivalency: APBI 406. In Person Learning Wed 2:00 p.m. - 4:00 p.m.


BIOL_V 424-201 424 201 Tropical Ecology and Conservation W2 Ecology, function, history and conservation of tropical systems. Focus on ecological and evolutionary principles using tropical landscapes as a geographic template. Assessment of factors that make tropical systems vulnerable to degradation. Research project development using an analysis of tropical ecology literature. [2-0-2] Prerequisite: BIO 121 and one of BIO 216, FRST 201, GEOG 207, GEOG 208. In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.

BIOL_V 424-121 424 121 Tropical Ecology and Conservation W2 Ecology, function, history and conservation of tropical systems. Focus on ecological and evolutionary principles using tropical landscapes as a geographic template. Assessment of factors that make tropical systems vulnerable to degradation. Research project development using an analysis of tropical ecology literature. [2-0-2] Prerequisite: BIO 121 and one of BIO 216, FRST 201, GEOG 207, GEOG 208. In Person Learning Thu 3:00 p.m. - 5:00 p.m.

BIOL_V 427-101 427 101 Ornithology and Herpetology W1 Ornithology and Herpetology W1

BIOL_V 427-101 427 101 Ornithology and Herpetology W1 Ornithology and Herpetology W1

BIOL_V 427-101 427 101 Ornithology and Herpetology W1 Ornithology and Herpetology W1

BIOL_V 427-101 427 101 Ornithology and Herpetology W1 Ornithology and Herpetology W1
Evolutionary Morphology of Marine Invertebrates

Integrated Functional Genomics

Directed Studies in Biology

In Person Learning

2014

Advanced Microscopy Techniques

Tue Thu

Arranged

101 Fri

427

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

A_101

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

Biology. Restricted to Honours students in Biology. [2-3-0] Corequisite: BIOL 449

Theoretical and experimental aspects of population and quantitative genetics. Please consult the Faculty of Science Credit Exclusion Lists. This course is not eligible for Credit/D/Fail grading. [2-4-0]

Ultrastructure, biogenesis, and evolution of eukaryotic cells and cell organelles, including their intracellular traffic between them. Laboratories and discussion of recent scientific literature, with emphasis on the techniques and strategies that enable researchers to test hypotheses and advance new concepts. [3-0-0] Prerequisite: BIOL 200 and either BIOL 231, BIOL 234, or BIOL 407.

Microscopy techniques used in biological research. Principles, applications and hands-on training of optical and electron microscopy. Please consult the Faculty of Science Credit ExclusionLists. This course is not eligible for Credit/D/Fail grading. [2-4-0] Prerequisite: BIOL 200, Corequisite: One of BIOL 448, BIOL 449, and Fourth-year standing.

Major physiological mechanisms that define eukaryotic cells, explored through student visits to UBC research laboratories and discussion of recent scientific literature, with emphasis on the techniques and strategies that enable researchers to test hypotheses and advance new concepts. [3-0-0] Prerequisite: BIOL 200 and one of BIOL 231, BIOL 234, or BIOL 407.

Integration of molecular genetics and genomics with evolutionary biology. Emphasis on the evolutionary dynamics of genomes and the evolutionary implications of recent discoveries in molecular genetics and genomics. [3-0-0] Prerequisite: One of BIOL 405, BIOL 406, BIOL 408.

Analysis of cellular organelles and the intracellular traffic between them, concentrating on eukaryotic cell systems. [3-0-0] Prerequisite: One of BIOL 335, BIOL 336, BIOL 338. Equivalency: BIOL 411.
A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 448-B_201**
  - **Crn:** B, 301
  - **In Person Learning**
  - **W1**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 448-D_201**
  - **Crn:** B, 301
  - **In Person Learning**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 448-D_201**
  - **Crn:** D, 206
  - **In Person Learning**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 448-D_201**
  - **Crn:** D, 206
  - **In Person Learning**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 448-D_201**
  - **Crn:** D, 206
  - **In Person Learning**

A course designed to allow students to undertake a research project in selected fields. Open only to Honors students in Biology, with permission of the supervisor. Presentation of a thesis and an oral examination are required. Complementary BIOL 497 arranged.

- **BIOL_V 449-001**
  - **Crn:** 001
  - **Directed Biological Research**
  - **W1-2**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 450-201**
  - **Crn:** 201
  - **Molecular Adaptation of Animals to the Environment**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 450-201**
  - **Crn:** 201
  - **Comparative Neurobiology**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 453-101**
  - **Crn:** 101
  - **Insect Physiology**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 453-101**
  - **Crn:** 101
  - **Insect Physiology**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 454-201**
  - **Crn:** 201
  - **Comparative Animal Physiology**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 455-201**
  - **Crn:** 201
  - **Comparative Environmental Physiology**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 456-201**
  - **Crn:** 201
  - **Developmental Neurobiology**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 458-201**
  - **Crn:** 201
  - **Comparative Animal Physiology**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 460-101**
  - **Crn:** 101
  - **Directed Studies in Biology**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 462-101**
  - **Crn:** 101
  - **Comparative Animal Physiology**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 463-101**
  - **Crn:** 101
  - **Directed Studies in Biology**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 464-201**
  - **Crn:** 201
  - **Animal Developmental Genetics**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.

- **BIOL_V 466-301**
  - **Crn:** 301
  - **Directed Studies in Biology**

A course designed to allow students to undertake an investigation of a specific topic as agreed upon by the faculty member and the student. Permission of the supervisor required. No more than six credits of BIOL 448 may be taken with the same supervisor.
### BIOL_V 501-201
**Quantitative Methods in Ecology and Evolution**
- Type: In Person Learning
- Time: Tue Thu
- Credits: 2-3-0
- Prerequisite: BIOL 335
- Description: Theoretical and applied ecology of microbes. Focus on microbial symbolic kingdoms, plants and seaweeds. Critical analysis of microbial ecological literature and computational analysis of ecological data. 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. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOL 300 or equivalent and graduate student standing.

### BIOL_V 509-201
**Microbial Ecology**
- Type: In Person Learning
- Time: Tue Thu
- Credits: 2-3-0
- Prerequisite: BIOL 300 or equivalent and graduate student standing.
- Description: Emphasis on molecular aspects. Systems and techniques for genetic analysis in plants; isolation and regulation of plant genes; genetic dissection of plant-specific processes; transposable elements; gene transfer in plants; protein-based inheritance; genetic engineering. 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. This course is not eligible for Credit/D/Fail grading. Prerequisite: BIOL 300 or equivalent and graduate student standing.

### BIOL_V 510-201
**Advanced Microscopy Techniques**
- Type: In Person Learning
- Time: Wed
- Credits: 2-3-0
- Prerequisite: BIOL 509
- Description: Microscopy techniques used in biological research. Principles, applications, and hands-on training of optical and electron microscopy. Please consult the Faculty of Science Credit Exclusion Lists: https://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. Prerequisite: BIOL 300 or equivalent and graduate student standing.
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<tr>
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<th>Credits</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
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<tr>
<td>548-S_201</td>
<td>3</td>
<td>Tue</td>
<td>11:30 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
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<td>548-R_202</td>
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<td>Thu</td>
<td>11:30 a.m. - 1:00 p.m.</td>
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<td>1:30 p.m. - 3:00 p.m.</td>
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<td>548-Q_101</td>
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<td>548-O_102</td>
<td>3</td>
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<td>3:00 p.m. - 4:30 p.m.</td>
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<td>548-M_202</td>
<td>3</td>
<td>Thu</td>
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<td>Thu</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
<td>3:00 p.m. - 4:30 p.m.</td>
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<td>548-N_201</td>
<td>3</td>
<td>Tue Thu</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
<td>3:00 p.m. - 4:30 p.m.</td>
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<td>548-K_201</td>
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<td>548-G_102</td>
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<td>3</td>
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<td>In Person Learning</td>
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<td>548-C_201</td>
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<td>In Person Learning</td>
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<td>548-A_201</td>
<td>3</td>
<td>Thu</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
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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.
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<tr>
<th>Course Code</th>
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<th>Title</th>
<th>Schedule</th>
<th>Format</th>
<th>Location</th>
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<tr>
<td>BIOL_V 548-T_101</td>
<td>W1</td>
<td>Advanced Topics in Biology</td>
<td>8:00 a.m. - 9:30 a.m.</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>BIOL_V 548-T_102</td>
<td>W1</td>
<td>Advanced Topics in Biology</td>
<td>8:00 a.m. - 9:30 a.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
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<td>BIOL_V 548-U_101</td>
<td>W1</td>
<td>Advanced Topics in Biology</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
<td>Tue</td>
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<td>W1</td>
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<td>W1</td>
<td>Advanced Topics in Biology</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<td>BIOL_V 102</td>
<td>W2</td>
<td>Advanced Topics in Biology</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
<td>Thu</td>
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<td>W1</td>
<td>Advanced Topics in Biology</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>BIOL_V 548-W_102</td>
<td>W1</td>
<td>Advanced Topics in Biology</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<td>Thu</td>
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<tr>
<td>BIOT_V 280-001</td>
<td>W2</td>
<td>Introductory Biotechnology</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>Arranged</td>
<td>Tue</td>
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<tr>
<td>BIOT_V 280-002</td>
<td>W2</td>
<td>Introductory Biotechnology</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>Arranged</td>
<td>Wed</td>
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<tr>
<td>BMEG_V 101-101</td>
<td>W2</td>
<td>Introduction to Biomedical Engineering</td>
<td>10:00 a.m. - 11:30 a.m.</td>
<td>Arranged</td>
<td>Thu</td>
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<tr>
<td>BMEG_V 101-201</td>
<td>W2</td>
<td>Introduction to Biomedical Engineering</td>
<td>10:00 a.m. - 11:30 a.m.</td>
<td>Arranged</td>
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<td>Introduction to Biomedical Engineering</td>
<td>10:00 a.m. - 11:30 a.m.</td>
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<td>Thu</td>
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<tr>
<td>BMEG_V 101-401</td>
<td>W2</td>
<td>Introduction to Biomedical Engineering</td>
<td>10:00 a.m. - 11:30 a.m.</td>
<td>Arranged</td>
<td>Thu</td>
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<td>W2</td>
<td>Biomedical Engineering Lab</td>
<td>1:30 p.m. - 3:00 p.m.</td>
<td>Arranged</td>
<td>Wed</td>
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<td>1:30 p.m. - 3:00 p.m.</td>
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<td>1:30 p.m. - 3:00 p.m.</td>
<td>Arranged</td>
<td>Wed</td>
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<td>BMEG_V 102-401</td>
<td>W2</td>
<td>Biomedical Engineering Lab</td>
<td>1:30 p.m. - 3:00 p.m.</td>
<td>Arranged</td>
<td>Wed</td>
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<tr>
<td>BMEG_V 102-12A</td>
<td>W2</td>
<td>Biomedical Engineering Lab</td>
<td>1:30 p.m. - 3:00 p.m.</td>
<td>Arranged</td>
<td>Wed</td>
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<tr>
<td>BMEG_V 102-22A</td>
<td>W2</td>
<td>Biomedical Engineering Lab</td>
<td>1:30 p.m. - 3:00 p.m.</td>
<td>Arranged</td>
<td>Wed</td>
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<tr>
<td>BMEG_V 102-32A</td>
<td>W2</td>
<td>Biomedical Engineering Lab</td>
<td>1:30 p.m. - 3:00 p.m.</td>
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<tr>
<td>BMEG_V 102-42A</td>
<td>W2</td>
<td>Biomedical Engineering Lab</td>
<td>1:30 p.m. - 3:00 p.m.</td>
<td>Arranged</td>
<td>Wed</td>
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<tr>
<td>BMEG_V 101-12A</td>
<td>W2</td>
<td>Technical Communication for Biomedical Engineers</td>
<td>1:30 p.m. - 3:00 p.m.</td>
<td>Arranged</td>
<td>Wed</td>
</tr>
</tbody>
</table>

**Course Descriptions:**

- **Introduction to Biomedical Engineering:** Foundational material spanning the four streams of the BMEG undergraduate program. Topics include: sensors and instrumentation; biosignals; physiological modeling, biomechanics, biomaterials; cellular engineering; regeneration medicine; and engineering design in these contexts. 
- **Biomedical Engineering Lab:** Rapid prototyping of mechanical, electrical and electromechanical systems. Building parts with state-of-the-art software and 3-D printing. Use of laboratory equipment and instrumentation. Credit will only be granted for one of BMEG 102 and BMEG 200. This course is not eligible for Credit/D/Fail grading.
- **Biomedical Engineering Lab:** Rapid prototyping of mechanical, electrical and electromechanical systems. Building parts with state-of-the-art software and 3-D printing. Use of laboratory equipment and instrumentation. Credit will only be granted for one of BMEG 102 and BMEG 200. This course is not eligible for Credit/D/Fail grading.
- **Technical Communication for Biomedical Engineers:** Report preparation, business correspondence, and oral presentation in biomedical engineering specific cases and projects. Credit will be granted for only one of BMEG 101 or APSC 201. This course is not eligible for Credit/D/Fail grading.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Time</th>
<th>Instructor</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMEG 201.21</td>
<td>Thermodynamics in Biomedical Engineering</td>
<td>3</td>
<td>Tue (Alternate weeks)</td>
<td>3:10 p.m. - 5:00 p.m.</td>
<td>L1A</td>
</tr>
<tr>
<td>BMEG 201.21</td>
<td>Thermodynamics in Biomedical Engineering</td>
<td>3</td>
<td>Tue (Alternate weeks)</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>230</td>
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<tr>
<td>BMEG 201.21</td>
<td>Circuits and Electromagnetics with Application to Biomedical Engineering</td>
<td>3</td>
<td>Wed (Alternate weeks)</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>L1C</td>
</tr>
<tr>
<td>BMEG 201.21</td>
<td>Circuits and Electromagnetics with Application to Biomedical Engineering</td>
<td>3</td>
<td>Wed (Alternate weeks)</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>L1D</td>
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<tr>
<td>BMEG 201.21</td>
<td>Technical Communication for Biomedical Engineers</td>
<td>3</td>
<td>Wed (Alternate weeks)</td>
<td>10:10 a.m. - 12:10 p.m.</td>
<td>L1B</td>
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<tr>
<td>BMEG 201.21</td>
<td>Technical Communication for Biomedical Engineers</td>
<td>3</td>
<td>Wed (Alternate weeks)</td>
<td>10:10 a.m. - 12:10 p.m.</td>
<td>L1C</td>
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<td>BMEG 201.21</td>
<td>Technical Communication for Biomedical Engineers</td>
<td>3</td>
<td>Wed (Alternate weeks)</td>
<td>10:10 a.m. - 12:10 p.m.</td>
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<td>BMEG 201.21</td>
<td>Technical Communication for Biomedical Engineers</td>
<td>3</td>
<td>Wed (Alternate weeks)</td>
<td>10:10 a.m. - 12:10 p.m.</td>
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<td>BMEG 201.21</td>
<td>Technical Communication for Biomedical Engineers</td>
<td>3</td>
<td>Wed (Alternate weeks)</td>
<td>10:10 a.m. - 12:10 p.m.</td>
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<td>Wed (Alternate weeks)</td>
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<td>BMEG 201.21</td>
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<td>Wed (Alternate weeks)</td>
<td>10:10 a.m. - 12:10 p.m.</td>
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<tr>
<td>BMEG 201.21</td>
<td>Technical Communication for Biomedical Engineers</td>
<td>3</td>
<td>Wed (Alternate weeks)</td>
<td>10:10 a.m. - 12:10 p.m.</td>
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<td>BMEG 201.21</td>
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<td>Wed (Alternate weeks)</td>
<td>10:10 a.m. - 12:10 p.m.</td>
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<tr>
<td>BMEG 201.21</td>
<td>Technical Communication for Biomedical Engineers</td>
<td>3</td>
<td>Wed (Alternate weeks)</td>
<td>10:10 a.m. - 12:10 p.m.</td>
<td>L1C</td>
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<tr>
<td>BMEG 201.21</td>
<td>Technical Communication for Biomedical Engineers</td>
<td>3</td>
<td>Wed (Alternate weeks)</td>
<td>10:10 a.m. - 12:10 p.m.</td>
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<tr>
<td>BMEG 230</td>
<td>Biomechanics I</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>11:30 a.m. - 2:30 p.m.</td>
<td>L2A</td>
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<tr>
<td>BMEG 245</td>
<td>Biomechanics I</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>321</td>
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<td>BMEG 250</td>
<td>Biomech I</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>320</td>
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<tr>
<td>BMEG 257</td>
<td>Biomedical Engineering Design</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>321</td>
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<tr>
<td>BMEG 300</td>
<td>Biomechanics</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>320</td>
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<tr>
<td>BMEG 321</td>
<td>Biomedical Instrumentation</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>320</td>
</tr>
<tr>
<td>BMEG 323</td>
<td>Biomedical Instrumentation</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>320</td>
</tr>
</tbody>
</table>

Incorporating the study of two dimensional movement of animals and humans with the study of the manner in which forces on biomechanical structures such as bones, ligaments, tendons, muscles and joints cause motion. Techniques of solid mechanics and two dimensional rigid body dynamics. Students who have received credit for MECH 435 cannot also receive credit for BMEG 230 or BMEG 101. This course is not eligible for Credit/Fail grading. (3-0-2) Prerequisite: Either (a) of BMEG 101, PHYS 170 or (b) all of APSC 101, BENG 200, PHYS 170.

The structure and function of cells and how they are organized to generate tissues and organ systems (3-0-3) Prerequisite: One of CHEM 12, CHEM 100, BIOS 12 strongly recommended.

Introduction to broader ethical and sustainability considerations for biomedical technology design. This course is not eligible for Credit/D/Fail grading. (2-0-2) Prerequisite: Either (a) of BMEG 101, BMEG 102 or (b) all of APSC 101, BENG 200, PHYS 170.

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. (3-1-2) Prerequisite: BMEG 245 and one of CPEN 221, CPEN 223.

Bioengineering Feedback Systems and Controls | In Person Learning | Wed | 11:30 a.m. - 1:00 p.m. | 321 | 9:00 a.m. - 11:00 a.m. | W1 |

Modelling, analysis and simulation of dynamic systems; feedback systems; control system design. Examples from biomedical systems, systems and biomedical equipment. This course is not eligible for Credit/D/Fail grading. (3-1-2) Prerequisite: Either (a) of BMEG 101, BMEG 102 or (b) all of APSC 101, BENG 200, PHYS 170.

Modelling, analysis and simulation of dynamic systems; feedback systems; control system design. Examples from biomedical systems, systems and biomedical equipment. This course is not eligible for Credit/D/Fail grading. (3-1-2) Prerequisite: Either (a) of BMEG 101, BMEG 102 or (b) all of APSC 101, BENG 200, PHYS 170.

Modelling, analysis and simulation of dynamic systems; feedback systems; control system design. Examples from biomedical systems, systems and biomedical equipment. This course is not eligible for Credit/D/Fail grading. (3-1-2) Prerequisite: Either (a) of BMEG 101, BMEG 102 or (b) all of APSC 101, BENG 200, PHYS 170.

Modelling, analysis and simulation of dynamic systems; feedback systems; control system design. Examples from biomedical systems, systems and biomedical equipment. This course is not eligible for Credit/D/Fail grading. (3-1-2) Prerequisite: Either (a) of BMEG 101, BMEG 102 or (b) all of APSC 101, BENG 200, PHYS 170.

Modelling, analysis and simulation of dynamic systems; feedback systems; control system design. Examples from biomedical systems, systems and biomedical equipment. This course is not eligible for Credit/D/Fail grading. (3-1-2) Prerequisite: Either (a) of BMEG 101, BMEG 102 or (b) all of APSC 101, BENG 200, PHYS 170.

Modelling, analysis and simulation of dynamic systems; feedback systems; control system design. Examples from biomedical systems, systems and biomedical equipment. This course is not eligible for Credit/D/Fail grading. (3-1-2) Prerequisite: Either (a) of BMEG 101, BMEG 102 or (b) all of APSC 101, BENG 200, PHYS 170.

Modelling, analysis and simulation of dynamic systems; feedback systems; control system design. Examples from biomedical systems, systems and biomedical equipment. This course is not eligible for Credit/D/Fail grading. (3-1-2) Prerequisite: Either (a) of BMEG 101, BMEG 102 or (b) all of APSC 101, BENG 200, PHYS 170.

Modelling, analysis and simulation of dynamic systems; feedback systems; control system design. Examples from biomedical systems, systems and biomedical equipment. This course is not eligible for Credit/D/Fail grading. (3-1-2) Prerequisite: Either (a) of BMEG 101, BMEG 102 or (b) all of APSC 101, BENG 200, PHYS 170.

Modelling, analysis and simulation of dynamic systems; feedback systems; control system design. Examples from biomedical systems, systems and biomedical equipment. This course is not eligible for Credit/D/Fail grading. (3-1-2) Prerequisite: Either (a) of BMEG 101, BMEG 102 or (b) all of APSC 101, BENG 200, PHYS 170.
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 221, ELEC 371. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: Either (a) MATH 256 or (b) all of MATH 265, MATH 267, and either (a) BMEG 220 or (b) (score of 0.67) in CHEM 101, PHYS 101 and one of ELEC 201, ELEC 204.

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

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 221, ELEC 371. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: Either (a) MATH 256 or (b) all of MATH 265, MATH 267, and either (a) BMEG 220 or (b) (score of 0.67) in CHEM 101, PHYS 101 and one of ELEC 201, ELEC 204.

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

Biomaterial types, synthesis and testing; the use of biomaterials; biological response; biomaterials science/engineering applied to design and synthesis of drug delivery systems. Credit/D/Fail grading. [3-0-1] Prerequisite: All of BMEG 250, CHEM 123.

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

Creating innovations in biomedical technologies. Supervised design process for clinical clients, involving the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.

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

Creating innovations in biomedical technologies. Supervised design process for clinical clients, involving the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.

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

Biomedical Engineering Design II
In Person Learning
373-120
BMEG_V

Biomedical instrumentation
W2

Principles and common elements of sports-, orthopedic-, injury- and cellular length biomechanics. Improving sports performance and preventing adverse injuries through sports biomechanics, designing orthopedic implants through orthopedic biomechanics, preventing injuries through injury biomechanics and identifying and filtering consensus blood tests through cellular biomechanics. Students who have received credit for MECH 435 cannot also receive credit for BMEG 240 or BMEG 330. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: BMEG 220.

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

Fluid flow and mass transport analysis within healthy and diseased cells and tissues using mathematics. Drug delivery and tissue engineering. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: One of MATH 253, MATH 217 and either (a) MATH 256 or (b) all of MATH 265, MATH 267;  and either (a) BMEG 220 or (b) (score of 0.67) in CHEM 101, PHYS 101 and one of ELEC 201, ELEC 204.

In Person Learning
Tue 4:00 p.m. - 5:00 p.m.

Creating innovations in biomedical technologies. Supervised design process for clinical clients, involving the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.

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

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 221, ELEC 371. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: Either (a) MATH 256 or (b) all of MATH 265, MATH 267, and either (a) BMEG 220 or (b) (score of 0.67) in CHEM 101, PHYS 101 and one of ELEC 201, ELEC 204.

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

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 221, ELEC 371. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: Either (a) MATH 256 or (b) all of MATH 265, MATH 267, and either (a) BMEG 220 or (b) (score of 0.67) in CHEM 101, PHYS 101 and one of ELEC 201, ELEC 204.

In Person Learning
Fri 3:30 p.m. - 5:00 p.m.

Creating innovations in biomedical technologies. Supervised design process for clinical clients, involving the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.

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

Creating innovations in biomedical technologies. Supervised design process for clinical clients, involving the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.

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

Fluid flow and mass transport analysis within healthy and diseased cells and tissues using mathematics. Drug delivery and tissue engineering. This course is not eligible for Credit/D/Fail grading. [3-0-2*] Prerequisite: One of MATH 253, MATH 217 and either (a) MATH 256 or (b) all of MATH 265, MATH 267;  and either (a) BMEG 220 or (b) (score of 0.67) in CHEM 101, PHYS 101 and one of ELEC 201, ELEC 204.

In Person Learning
Wed 4:00 p.m. - 5:00 p.m.

Creating innovations in biomedical technologies. Supervised design process for clinical clients, involving the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.

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

Creating innovations in biomedical technologies. Supervised design process for clinical clients, involving the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.

In Person Learning
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Creating innovations in biomedical technologies. Supervised design process for clinical clients, involving the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.

In Person Learning
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Creating innovations in biomedical technologies. Supervised design process for clinical clients, involving the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.

In Person Learning
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Creating innovations in biomedical technologies. Supervised design process for clinical clients, involving the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.

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

Creating innovations in biomedical technologies. Supervised design process for clinical clients, involving the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.

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

Creating innovations in biomedical technologies. Supervised design process for clinical clients, involving the building, testing, and verification of prototypes with potential users. This course is not eligible for Credit/D/Fail grading. [1-3-1] Prerequisite: BMEG 245.

In Person Learning
Wed Fri 1:00 p.m. - 2:00 p.m.
BMEG 374 L20 Cellular Bioengineering: Laboratory & Design W2 4:00 p.m. - 7:00 p.m.

BMEG 374 T24 Cellular Bioengineering: Laboratory & Design W2 1:30 p.m. - 4:00 p.m.

BMEG 400 L1 1L-201 Topics in Biomedical Engineering W2 9:30 a.m. - 11:00 a.m.

BMEG 400 K2 K-201 Topics in Biomedical Engineering W2 2:00 p.m. - 3:30 p.m.

BMEG 400 Q1 Q-201 Topics in Biomedical Engineering W2 11:00 a.m. - 12:30 p.m.

BMEG 401-201 Economics of Healthcare Solutions W2 8:00 a.m. - 9:30 a.m.

BMEG 402-202 Economics of Healthcare Solutions W2 2:00 p.m. - 3:00 p.m.

BMEG 402-101 Impact of Biomedical Engineering on Society, Sustainability and Environmental Stewardship W1 3:30 p.m. - 5:00 p.m.

BMEG 402-201 Impact of Biomedical Engineering on Society, Sustainability and Environmental Stewardship W2 3:30 p.m. - 5:00 p.m.

BMEG 410-101 Biomedical Equipment, Physiology, and Anatomy W1 10:00 a.m. - 11:00 a.m.

BMEG 421-101 Biomedical Robotics W2 10:00 a.m. - 11:00 a.m.

BMEG 422-201 Modern Biomedical Optical Imaging W2 2:00 p.m. - 3:30 p.m.

BMEG 433-201 Clinical Informatics W1 5:00 p.m. - 7:00 p.m.

BMEG 434-201 Biomedical Robotics W2 11:00 a.m. - 12:30 p.m.

BMEG 455-101 Professionalism and Ethics in Biomedical Engineering W1 3:00 p.m. - 5:00 p.m.

BMEG 456-101 Clinical and Industrial Biomedical Engineering W1 4:00 p.m. - 7:00 p.m.

BMEG 457-001 Biomedical Engineering Design Project W1 10:00 a.m. - 11:00 a.m.

BMEG 457-00A Biomedical Engineering Design Project W1 11:00 a.m. - 12:00 p.m.
BMEG_V 470-201  BMEG_V 470  201  Cellular Responses to Forces and Biomaterials  W2  Mechanical forces and biomaterials regulating cellular functions critical to tissue development, regeneration and repair. [1-0-2] Prerequisite: All of BMEG 455, BMEG 456, BMEG 350. Biology and applications of stem cells in regenerative medicine. Modelling human biology and disease in vitro and in vivo. Regulatory and commercialization pathways for regenerative medicine innovations. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of BMEG 410, BMEG 455, BMEG 350.  In Person Learning  Tue Thu 8:30 a.m. - 10:30 a.m.

BMEG_V 472-201  BMEG_V 472  201  Stem Cells and Regenerative Medicine  W2  Research project directed by a faculty member in Biomedical Engineering. Course may include workshops. Prerequisite: Fall-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. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of BMEG 410, BMEG 455, BMEG 350.  In Person Learning  Tue Thu 8:30 a.m. - 10:30 a.m.

BMEG_V 490-A_201  BMEG_V 490  A  A_201  Introduction to Academic Research  W1-2  Research project directed by a faculty member in Biomedical Engineering. Course may include workshops. Prerequisite: Fall-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. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: BMEG 245, BMEG 250, BMEG 350.  In Person Learning  WedFri 1:00 p.m. - 2:00 p.m.

BMEG_V 490-B_201  BMEG_V 490  B  B_201  Introduction to Academic Research  W1-2  Engaged in research and scientific writing activities. Prerequisite: Fall-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. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: BMEG 245, BMEG 250, BMEG 350.  In Person Learning  Arranged Arranged

BMEG_V 495-201  BMEG_V 495  201  Biomaterials  W2  Operation of biomedical and clinical engineering facilities at hospitals. Daily activities of healthcare workers. Prerequisites: This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: BMEG 410.  In Person Learning  Thu 8:00 a.m. - 10:00 a.m.

BMEG_V 495-T2A  BMEG_V 495  T2A  T2A  Biomaterials  W2  Operation of biomedical and clinical engineering facilities at hospitals. Daily activities of healthcare workers. Prerequisites: This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: BMEG 410.  In Person Learning  Mon 2:00 p.m. - 4:00 p.m.

BMEG_V 500-T1A  BMEG_V 500  T1A  Orientation to Clinical Environment  W1  Anatomical structures and physiological principles of major body systems. Functional connections to operation of diagnostic and therapeutic equipment. Exploration of recent advances. Credit will be granted for only one of BMEG 423 or BMEG 523. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of BMEG 245, BMEG 250, BMEG 350.  In Person Learning  Thu 8:00 a.m. - 10:00 a.m.

BMEG_V 500-T1A  BMEG_V 500  T1A  Orientation to Clinical Environment  W1  Anatomical structures and physiological principles of major body systems. Functional connections to operation of diagnostic and therapeutic equipment. Exploration of recent advances. Credit will be granted for only one of BMEG 423 or BMEG 523. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of BMEG 245, BMEG 250, BMEG 350.  In Person Learning  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  Anatomical structures and physiological principles of major body systems. Functional connections to operation of diagnostic and therapeutic equipment. Exploration of recent advances. Credit will be granted for only one of BMEG 423 or BMEG 523. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of BMEG 245, BMEG 250, BMEG 350.  In Person Learning  WedFri 5:30 p.m. - 8:30 p.m.

BMEG_V 521-101  BMEG_V 521  101  Signal Systems in Optics  W1  Advanced multidisciplinary optical imaging concepts, fundamental optics, OCT theories, advanced modern OCT technologies, and OCT application in clinical medicine and biomedical engineering. Credit will be granted for only one of BMEG 421 or BMEG 521. BMEG 421 or courses with MATLAB recommended. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of BMEG 245, BMEG 250, BMEG 350.  In Person Learning  Tue Thu 2:00 p.m. - 3:10 p.m.

BMEG_V 522-201  BMEG_V 522  201  Modern Biomedical Optical Imaging  W2  Principles and best practices in analyzing genomics data. Genome architecture, mapability, repeat elements, ChIP-seq, open chromatin, histone modifications, single cell technologies, genome wide assessment studies, statistical analysis, computational analysis, data processing. Credit will be granted for only one of BMEG 424 or BMEG 524. BMEG 524 or equivalent recommended. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: APSC 278.  In Person Learning  MonWed Fri 11:00 a.m. - 12:30 p.m.

BMEG_V 525-201  BMEG_V 525  201  Biomedical Engineering Technology  W2 This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of BMEG 245, BMEG 250, BMEG 350.  In Person Learning  Arranged Arranged

BMEG_V 525-A_201  BMEG_V 525  A  A_201  Directed Studies in Biomedical Engineering  W1  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged Arranged

BMEG_V 525-B_201  BMEG_V 525  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 525-B_201  BMEG_V 525  A  A_201  Directed Studies in Biomedical Engineering  W1  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged Arranged

BMEG_V 525-B_201  BMEG_V 525  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 525-B_201  BMEG_V 525  B  B_201  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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<th>Credit/D/Fail grading</th>
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<td>BMEG 557-101</td>
<td>Statistical Methods for Evaluating Medical Technologies</td>
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<td>Biomedical Engineering Topics at the Interface of Medicine and Engineering</td>
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<td>Master of Engineering Project</td>
<td>W1-2</td>
<td>Supervised industrial, clinical, or research project for students registered in Biomedical Engineering program. This course is not eligible for Credit/D/Fail grading</td>
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<td>BMEG 597-101</td>
<td>Master of Engineering Project</td>
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<td>BMEG 597-201</td>
<td>Master of Engineering Project</td>
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<td>Supervised industrial, clinical, or research project for students registered in Biomedical Engineering program. This course is not eligible for Credit/D/Fail grading</td>
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<td>BMEG 598-001</td>
<td>Biomedical Engineering Seminar</td>
<td>W1-2</td>
<td>Presentation and discussion of current topics in biomedical engineering research and development. A required course for all graduate students in Biomedical Engineering. This course is not eligible for Credit/D/Fail grading</td>
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<tr>
<td>BMEG 598-101</td>
<td>Biomedical Engineering Seminar</td>
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<td>Presentation and discussion of current topics in biomedical engineering research and development. A required course for all graduate students in Biomedical Engineering. This course is not eligible for Credit/D/Fail grading</td>
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<td>BMEG 599-001</td>
<td>M.A. Sc. Thesis</td>
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**Notes:**
- Registration for this course will be determined in consultation with the student prior to the course 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 course registration.

**Prerequisites:**
- BIOL 335 is recommended as either a prerequisite or corequisite.
- Equivalencies: PLNT540, FRST503

**Admission:**
- Admission to the course is limited and requires recommendation from the Head of Botany or the Director of the Biotechnology Laboratory.
<table>
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<th>Credits</th>
<th>Duration</th>
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<td>BOTA_V 546-F_201</td>
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<td>BOTA_V 549-101</td>
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<td>Doctoral Dissertation</td>
<td>W1-2</td>
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<td>Research Development</td>
<td>W1-2</td>
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<td>BRDG_V 500-002</td>
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<td>W1-2</td>
<td>4 months for M.S.</td>
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<td>Thesis and Journal Seminar</td>
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<td>Research Grant Development</td>
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<tr>
<td>BRDG_V 600-002</td>
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<td>8 months for Ph.D. students.</td>
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<td>BUSI_V 100-001</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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<tr>
<td>BUSI_V 100-002</td>
<td>Micro Foundations of Real Estate Economics</td>
<td>W2</td>
<td>Basic principles of microeconomics and application to current economic problems.</td>
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<tr>
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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 293-101</td>
<td>Capital Markets and Real Estate</td>
<td>W1</td>
<td>6:30 p.m. - 9:30 p.m.</td>
<td>In Person Learning</td>
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<td>Basic principles of microeconomics and application to current economic problems. Prerequisite: BUSI 100.</td>
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<td>BUSI 293-201</td>
<td>Introductory Management Accounting</td>
<td>W1</td>
<td>6:30 p.m. - 9:30 p.m.</td>
<td>In Person Learning</td>
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<td>Basic principles of microeconomics and application to current economic problems. Prerequisite: BUSI 100.</td>
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<td>BUSI 293-202</td>
<td>Introductory Management Accounting</td>
<td>W2</td>
<td>6:30 p.m. - 9:30 p.m.</td>
<td>Hybrid Learning</td>
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<td>Basic principles of microeconomics and application to current economic problems. Prerequisite: BUSI 100.</td>
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<td>BUSI 295-101</td>
<td>Business Economics</td>
<td>W1</td>
<td>6:30 p.m. - 9:30 p.m.</td>
<td>In Person Learning</td>
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<td>Introduction to microeconomics and macroeconomics principles with applications to accounting and business decision making. This course is not eligible for Credit/D/Fail grading.</td>
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**BUSI 293-101: Capital Markets and Real Estate**

- **Introduction to microeconomics and macroeconomics principles with applications to current economic problems.**
- **Prerequisite:** BUSI 100.

**BUSI 293-201: Introductory Management Accounting**

- **Prerequisite:** BUSI 100.

**BUSI 293-202: Introductory Management Accounting**

- **Prerequisite:** BUSI 100.

**BUSI 295-101: Business Economics**

- **Introduction to microeconomics and macroeconomics principles with applications to accounting and business decision making.**
- **This course is not eligible for Credit/D/Fail grading.**

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**BUSI 293-101: Capital Markets and Real Estate**

- **Prerequisite:** BUSI 100.
- **Corequisite:** BUSI 293 or equivalent.

**BUSI 293-201: Introductory Management Accounting**

- **Prerequisite:** BUSI 100.
- **Corequisite:** BUSI 293 or equivalent.

**BUSI 293-202: Introductory Management Accounting**

- **Prerequisite:** BUSI 100.
- **Corequisite:** BUSI 293 or equivalent.

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**BUSI 293-101: Capital Markets and Real Estate**

- **Prerequisite:** BUSI 100.
- **Corequisite:** BUSI 293 or equivalent.

**BUSI 293-201: Introductory Management Accounting**

- **Prerequisite:** BUSI 100.
- **Corequisite:** BUSI 293 or equivalent.

**BUSI 293-202: Introductory Management Accounting**

- **Prerequisite:** BUSI 100.
- **Corequisite:** BUSI 293 or equivalent.

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**BUSI 293-101: Capital Markets and Real Estate**

- **Prerequisite:** Course 01T or equivalent.

**BUSI 293-201: Introductory Management Accounting**

- **Prerequisite:** Course 01T or equivalent.

**BUSI 293-202: Introductory Management Accounting**

- **Prerequisite:** Course 01T or equivalent.

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**BUSI 293-101: Capital Markets and Real Estate**

- **Prerequisite:** Course 02T or equivalent.

**BUSI 293-201: Introductory Management Accounting**

- **Prerequisite:** Course 02T or equivalent.

**BUSI 293-202: Introductory Management Accounting**

- **Prerequisite:** Course 02T or equivalent.
<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>CRN</th>
<th>Type</th>
<th>Schedule</th>
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<tr>
<td>BUSI_V 295-102</td>
<td>Information Systems</td>
<td>295</td>
<td>Hybrid Learning</td>
<td>Tue 6:30 p.m. - 9:30 p.m.</td>
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<tr>
<td>BUSI_V 295-103</td>
<td>Information Systems</td>
<td>295</td>
<td>Hybrid Learning</td>
<td>Wed 6:30 p.m. - 9:30 p.m.</td>
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<td>BUSI_V 295-201</td>
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<td>295</td>
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<td>BUSI_V 295-203</td>
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<td>BUSI_V 300-101</td>
<td>Urban and Real Estate Economics</td>
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<td>BUSI_V 300-102</td>
<td>Urban and Real Estate Economics</td>
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<td>BUSI_V 309-103</td>
<td>Principles of Organizational Behaviour</td>
<td>309</td>
<td>In Person Learning</td>
<td>Tue Thu 2:00 p.m. - 3:10 p.m.</td>
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<tr>
<td>BUSI_V 309-202</td>
<td>Principles of Organizational Behaviour</td>
<td>309</td>
<td>In Person Learning</td>
<td>Thu 3:30 p.m. - 4:30 p.m.</td>
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<td>BUSI_V 310-101</td>
<td>Foundations of Real Estate Appraisal</td>
<td>310</td>
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<td>BUSI_V 310-102</td>
<td>Foundations of Real Estate Appraisal</td>
<td>310</td>
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<td>Foundations of Real Estate Appraisal</td>
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<td>BUSI_V 320-127</td>
<td>Foundations of Real Estate Appraisal</td>
<td>320</td>
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<td>BUSI_V 331-101</td>
<td>Real Estate Investment Analysis and Advanced Income Appraisal</td>
<td>331</td>
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<td>BUSI_V 331-102</td>
<td>Real Estate Investment Analysis and Advanced Income Appraisal</td>
<td>331</td>
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<td>BUSI_V 335-101</td>
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<td>BUSI_V 335-102</td>
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<td>BUSI_V 335-201</td>
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<td>335</td>
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<td>BUSI_V 335-202</td>
<td>Information Systems</td>
<td>335</td>
<td>Hybrid Learning</td>
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<tr>
<td>BUSI_V 344-101</td>
<td>Statistical and Computer Applications in Valuation</td>
<td>344</td>
<td>Online Learning</td>
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<td>BUSI_V 344-102</td>
<td>Statistical and Computer Applications in Valuation</td>
<td>344</td>
<td>Online Learning</td>
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<tr>
<td>BUSI_V 352-101</td>
<td>Case Studies in Residential Valuation</td>
<td>352</td>
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<td>BUSI_V 352-102</td>
<td>Case Studies in Residential Valuation</td>
<td>352</td>
<td>Online Learning</td>
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</table>
Underlying theory and techniques used in design, construction, and inspection of residential properties. The residential property appraisal process, focusing both on valuation techniques as well as general research and report writing skills.

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. Prerequisite: BUSI293 or equivalent.

A study of income tax from the standpoint of the individual and business enterprise. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.

An introduction to the basic principles of financial valuation and an examination of corporate enterprise decisions including working capital management; capital budgeting; capital structures and dividend policy. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.

The provision and analysis of cost accounting information that will assist management in making operating decisions and in evaluating operational performance. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.

An examination of accounting as a means of measurement and as an information system for external reporting purposes. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.

Introduction to the basic principles of financial valuation and an examination of corporate enterprise decisions including working capital management; capital budgeting; capital structures and dividend policy. This course is not eligible for Credit/D/Fail grading. Prerequisite: BUSI293 or equivalent.

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<th>Online Learning</th>
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<tr>
<td>BUSI 400-002</td>
<td>Residential Property Analysis</td>
<td>Underlying theory and techniques used in design, construction, and inspection of residential properties.</td>
<td>Online Learning</td>
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<tr>
<td>BUSI 400-001</td>
<td>Commercial Property Analysis</td>
<td>Underlying theory and techniques used in the design and construction of commercial properties.</td>
<td>Online Learning</td>
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<tr>
<td>BUSI 400-002</td>
<td>Commercial Property Analysis</td>
<td>Underlying theory and techniques used in the design and construction of commercial properties.</td>
<td>Online Learning</td>
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<tr>
<td>BUSI 433-001</td>
<td>Data Visualization and Business Analytics</td>
<td>Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Predictive analytics including optimization, Monte Carlo simulation, decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 291, BUSI 330.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>6:30 p.m. - 9:30 p.m.</td>
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<tr>
<td>BUSI 433-002</td>
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<td>Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Predictive analytics including optimization, Monte Carlo simulation, decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 291, BUSI 330.</td>
<td>Hybrid Learning</td>
<td>Wed</td>
<td>1:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>BUSI 433-001</td>
<td>Data Visualization and Business Analytics</td>
<td>Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Predictive analytics including optimization, Monte Carlo simulation, decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 291, BUSI 330.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>1:00 p.m. - 6:00 p.m.</td>
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<td>BUSI 433-002</td>
<td>Data Visualization and Business Analytics</td>
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<td>Hybrid Learning</td>
<td>Thu</td>
<td>6:30 p.m. - 9:30 p.m.</td>
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<tr>
<td>BUSI 420-A_003</td>
<td>Integrated Business Leadership A_103</td>
<td>Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Predictive analytics including optimization, Monte Carlo simulation, decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 291, BUSI 330.</td>
<td>In Person Learning</td>
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<tr>
<td>BUSI 433-001</td>
<td>Real Estate Business</td>
<td>General business skills for real estate practitioners.</td>
<td>Online Learning</td>
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<tr>
<td>BUSI 433-002</td>
<td>Real Estate Business</td>
<td>General business skills for real estate practitioners.</td>
<td>Online Learning</td>
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<tr>
<td>BUSI 441-001</td>
<td>Real Estate Management I</td>
<td>Examines the day-to-day issues which affect the practice of property management. Prerequisite: BUSI 330: BUSI 331 recommended.</td>
<td>Online Learning</td>
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<td>BUSI 441-002</td>
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<td>Examines the day-to-day issues which affect the practice of property management. Prerequisite: BUSI 330: BUSI 331 recommended.</td>
<td>Online Learning</td>
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<tr>
<td>BUSI 442-001</td>
<td>Case Studies in Appraisal I</td>
<td>Examines the day-to-day issues that affect the practice of real estate appraisal. Prerequisite: All of BUSI 121, BUSI 330, BUSI 331.</td>
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<tr>
<td>BUSI 442-002</td>
<td>Case Studies in Appraisal I</td>
<td>Examines the day-to-day issues that affect the practice of real estate appraisal. Prerequisite: All of BUSI 121, BUSI 330, BUSI 331.</td>
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<tr>
<td>BUSI 445-001</td>
<td>Assessment Administration</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 prerequisite: BUSI 130.</td>
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<tr>
<td>BUSI 445-002</td>
<td>Assessment Administration</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 prerequisite: BUSI 130.</td>
<td>Online Learning</td>
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<tr>
<td>BUSI 446-001</td>
<td>Computer Aided Mass Property Assessment</td>
<td>Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Predictive analytics including optimization, Monte Carlo simulation, decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 121, BUSI 330, BUSI 331.</td>
<td>Online Learning</td>
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<tr>
<td>BUSI 446-002</td>
<td>Computer Aided Mass Property Assessment</td>
<td>Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Predictive analytics including optimization, Monte Carlo simulation, decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 121, BUSI 330, BUSI 331.</td>
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<tr>
<td>BUSI 445-001</td>
<td>Real Estate Development I</td>
<td>Real estate development positions 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 121, BUSI 330.</td>
<td>Online Learning</td>
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<tr>
<td>BUSI 446-001</td>
<td>Real Estate Development II</td>
<td>Analysis of real estate development processes with an examination of economic feasibility studies, approval processes, project financing, construction, project management, and marketing phases. Prerequisite: BUSI 445.</td>
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<td>BUSI 446-002</td>
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<td>BUSI_V 450-101</td>
<td>BUSI_V 450</td>
<td>Intermediate Financial Accounting II</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: All of BUSI 293, BUSI 370. Corequisite: BUSI155.</td>
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<td>6:30 p.m. - 9:30 p.m.</td>
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<td>BUSI_V 450</td>
<td>Intermediate Financial Accounting II</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: All of BUSI 293, BUSI 370. Corequisite: BUSI155.</td>
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<td>BUSI_V 452</td>
<td>Intermediate Financial Accounting II</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: All of BUSI 293, BUSI 370. Corequisite: BUSI155.</td>
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<td>Mon</td>
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<td>BUSI_V 450-202</td>
<td>BUSI_V 450</td>
<td>Intermediate Financial Accounting II</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: All of BUSI 293, BUSI 370. Corequisite: BUSI155.</td>
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<tr>
<td>BUSI_V 451-101</td>
<td>BUSI_V 451</td>
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<td>BUSI_V 452-101</td>
<td>BUSI_V 452</td>
<td>Case Studies in Appraisal II</td>
<td>Continuation of BUSI 442. This course is not eligible for Credit/D/Fail grading.</td>
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<td>BUSI_V 453-101</td>
<td>BUSI_V 453</td>
<td>Advanced Financial Accounting</td>
<td>Continuation of BUSI 443. This course is not eligible for Credit/D/Fail grading.</td>
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<td>BUSI_V 453-102</td>
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<td>Advanced Financial Accounting</td>
<td>Continuation of BUSI 443. This course is not eligible for Credit/D/Fail grading.</td>
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<td>Advanced Financial Accounting</td>
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<tr>
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<td>Advanced Financial Accounting</td>
<td>Continuation of BUSI 443. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>BUSI_V 465-101</td>
<td>BUSI_V 465</td>
<td>Principles of Auditing</td>
<td>Principles of internal control; audit evidence; sampling and testing; audit reports; standards and responsibilities of the external audit. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 353, BUSI 452.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>6:30 p.m. - 9:30 p.m.</td>
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<tr>
<td>BUSI_V 465-102</td>
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<td>Mon</td>
<td>6:30 p.m. - 9:30 p.m.</td>
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<td>BUSI_V 465</td>
<td>Principles of Auditing</td>
<td>Principles of internal control; audit evidence; sampling and testing; audit reports; standards and responsibilities of the external audit. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 353, BUSI 452.</td>
<td>Hybrid Learning</td>
<td>Wed</td>
<td>6:30 p.m. - 9:30 p.m.</td>
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<tr>
<td>BUSI_V 493-201</td>
<td>BUSI_V 493</td>
<td>Critical Analysis and Forecasting in Real Estate</td>
<td>Delivers into two quantitative decision-making methodologies—decision analysis and forecasting—and explores them using a problem-solving framework. Prerequisites: BUSI 121, BUSI 101 and BUSI 444 are also recommended.</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>BUSI_V 493-202</td>
<td>BUSI_V 493</td>
<td>Critical Analysis and Forecasting in Real Estate</td>
<td>Delivers into two quantitative decision-making methodologies—decision analysis and forecasting—and explores them using a problem-solving framework. Prerequisites: BUSI 121, BUSI 101 and BUSI 444 are also recommended.</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>BUSI_V 455-101</td>
<td>BUSI_V 455</td>
<td>Marketing Management</td>
<td>Basic considerations affecting the domestic and international marketing of goods and services. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 293, BUSI 295.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
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<tr>
<td>BUSI_V 455-102</td>
<td>BUSI_V 455</td>
<td>Marketing Management</td>
<td>Basic considerations affecting the domestic and international marketing of goods and services. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 293, BUSI 295.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>6:00 p.m. - 9:00 p.m.</td>
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<tr>
<td>BUSI_V 456-201</td>
<td>BUSI_V 456</td>
<td>Marketing Management</td>
<td>Basic considerations affecting the domestic and international marketing of goods and services. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 293, BUSI 295.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>6:00 p.m. - 9:00 p.m.</td>
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<tr>
<td>BUSI_V 456-202</td>
<td>BUSI_V 456</td>
<td>Marketing Management</td>
<td>Basic considerations affecting the domestic and international marketing of goods and services. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of BUSI 293, BUSI 295.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>6:00 p.m. - 9:00 p.m.</td>
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<tr>
<td>BUSI_V 455-201</td>
<td>BUSI_V 455</td>
<td>Taxes and Decision Making</td>
<td>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's 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 293, BUSI 294, BUSI 295, BUSI 355, BUSI 353, BUSI 370, BUSI 393, BUSI 450.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>6:30 p.m. - 9:30 p.m.</td>
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BUSI V 499-002  BUSI V 499-001
In Person Learning
W1
Mon Wed Fri
100
CAP_V
W2
6:30 p.m. - 9:30 p.m.
100
CAP_V

In Person Learning
W1
Mon Wed Fri
202
CAP_V

In Person Learning
CAP_V
CAP_V
Wed
100
202
CAP_V

In Person Learning
I02
100
CAP_V

Online Learning
I04
002
CAP_V
11:00 a.m. - 12:00 p.m.
Hybrid Learning
W1
W1

In Person Learning
CAP_V
Mon Wed Fri
CAP_V
CAP_V
Tue Thu
In Person Learning
CAP_V

Online Learning
Arranged
Arranged

Introduction to Writing and Research in the Social Sciences and the Humanities
Strategic Management in Business

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/No Credit grading. Prerequisite: All of BUSI 291, BUSI 293, BUSI 294, BUSI 295, BUSI 301, BUSI 303, BUSI 370, BUSI 383, BUSI 450.

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/No Credit grading. Prerequisite: All of BUSI 291, BUSI 293, BUSI 294, BUSI 295, BUSI 301, BUSI 303, BUSI 370, BUSI 383, BUSI 450.

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/No Credit grading. Prerequisite: All of BUSI 291, BUSI 293, BUSI 294, BUSI 295, BUSI 301, BUSI 303, BUSI 370, BUSI 383, BUSI 450.

An applied case-oriented course in agricultural real estate. Credit will be granted for only one of CAP 100 or BUSI 299. Prerequisite: BUSI 299.

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.

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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 100 or ASTU 101. Equivalency: ASTU 101.

The income property appraisal process, focusing both on valuation techniques as well as general research and report writing skills. Prerequisite: All of BUSI 330, BUSI 331, BUSI 442, BUSI 452.

The income property appraisal process, focusing both on valuation techniques as well as general research and report writing skills. Prerequisite: All of BUSI 330, BUSI 331, BUSI 442, BUSI 452.

The income property appraisal process, focusing both on valuation techniques as well as general research and report writing skills. Prerequisite: All of BUSI 330, BUSI 331, BUSI 442, BUSI 452.
### Courses

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<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Schedule</th>
<th>Partial Description</th>
<th>Notes</th>
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<tr>
<td>CAP_V 100-L01</td>
<td>1.00</td>
<td>Introduction to Writing and Research in the Social Sciences and the Humanities</td>
<td>Mon Wed Fri</td>
<td>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 100 or ASTU 100. Equivalency: ASTU 100.</td>
<td>Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 100 or ASTU 100. Equivalency: ASTU 100.</td>
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<td>CAP_V 100-L02</td>
<td>1.00</td>
<td>Introduction to Writing and Research in the Social Sciences and the Humanities</td>
<td>Mon Wed Fri</td>
<td>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 100 or ASTU 100. Equivalency: ASTU 100.</td>
<td>Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 100 or ASTU 100. Equivalency: ASTU 100.</td>
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<td>CAP_V 100-L03</td>
<td>1.00</td>
<td>Introduction to Writing and Research in the Social Sciences and the Humanities</td>
<td>Mon Wed Fri</td>
<td>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 100 or ASTU 100. Equivalency: ASTU 100.</td>
<td>Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 100 or ASTU 100. Equivalency: ASTU 100.</td>
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<td>CAP_V 100-L04</td>
<td>1.00</td>
<td>Introduction to Writing and Research in the Social Sciences and the Humanities</td>
<td>Mon Wed Fri</td>
<td>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 100 or ASTU 100. Equivalency: ASTU 100.</td>
<td>Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 100 or ASTU 100. Equivalency: ASTU 100.</td>
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<td>CAP_V 100-L05</td>
<td>1.00</td>
<td>Introduction to Writing and Research in the Social Sciences and the Humanities</td>
<td>Mon Wed Fri</td>
<td>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 100 or ASTU 100. Equivalency: ASTU 100.</td>
<td>Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 100 or ASTU 100. Equivalency: ASTU 100.</td>
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<tr>
<td>CAP_V 100-L06</td>
<td>1.00</td>
<td>Introduction to Writing and Research in the Social Sciences and the Humanities</td>
<td>Mon Wed Fri</td>
<td>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 100 or ASTU 100. Equivalency: ASTU 100.</td>
<td>Restricted to students in the Coordinated Arts Program. Credit will be granted for only one of CAP 100 or ASTU 100. Equivalency: ASTU 100.</td>
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</table>

*Credits count toward the Writing Component of the Faculty of Arts Writing and Research Requirement.*
CAP_V 201-103  CAP_V 101 103 Introduction to Reading and Research in Literary, Cultural, and Media Studies W2
Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary every year. Restricted to students in the Coordinated Arts Program. Credit will be granted for one of CAP 101 or ARTS 100. Equivalency: ARTS 100
In Person Learning Micro/Field 2:00 p.m. - 3:00 p.m.

CAP_V 201-104  CAP_V 101 104 Introduction to Reading and Research in Literary, Cultural, and Media Studies W2
Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary every year. Restricted to students in the Coordinated Arts Program. Credit will be granted for one of CAP 101 or ARTS 100. Equivalency: ARTS 100
In Person Learning Micro/Field 3:00 p.m. - 4:00 p.m.

CAP_V 201-401  CAP_V 101 101 Introduction to Reading and Research in Literary, Cultural, and Media Studies W2
Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary every year. Restricted to students in the Coordinated Arts Program. Credit will be granted for one of CAP 101 or ARTS 100. Equivalency: ARTS 100
In Person Learning Micro/Field 5:30 a.m. - 6:30 p.m.

CAP_V 201-402  CAP_V 101 102 Introduction to Reading and Research in Literary, Cultural, and Media Studies W2
Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary every year. Restricted to students in the Coordinated Arts Program. Credit will be granted for one of CAP 101 or ARTS 100. Equivalency: ARTS 100
In Person Learning Micro/Field 11:00 a.m. - 12:00 p.m.

CAP_V 201-503  CAP_V 101 103 Introduction to Reading and Research in Literary, Cultural, and Media Studies W2
Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary every year. Restricted to students in the Coordinated Arts Program. Credit will be granted for one of CAP 101 or ARTS 100. Equivalency: ARTS 100
In Person Learning Micro/Field 2:00 p.m. - 3:00 p.m.

CAP_V 201-504  CAP_V 101 104 Introduction to Reading and Research in Literary, Cultural, and Media Studies W2
Applications of research and writing skills in the context of literary, cultural, and media analysis. Topics integrate CAP stream themes and vary every year. Restricted to students in the Coordinated Arts Program. Credit will be granted for one of CAP 101 or ARTS 100. Equivalency: ARTS 100
In Person Learning Micro/Field 3:00 p.m. - 4:00 p.m.

CAPS_V 205-001  CAPS_V 205 001 Fundamentals of Physiology in Human Health and Disease I W1
The principles of physiological regulation of respiratory, renal, gastrointestinal, endocrine and reproductive systems in the human body with practical applications in health and disease. Credit will only be granted for one of CAPS 205 or CAPS 206. [3-0-0] Prerequisite: All of BIOL 112, CHEM 112, MATH 101, and 100-level PHYS beyond PHYS 100.
In Person Learning Micro/Field 3:00 p.m. - 4:00 p.m.

CAPS_V 206-001  CAPS_V 206 001 Fundamentals of Physiology in Human Health and Disease II W2
The principles of physiological regulation of respiratory, renal, gastrointestinal, endocrine and reproductive systems in the human body with practical applications in health and disease. Credit will only be granted for one of CAPS 205 or CAPS 206. [3-0-0] Prerequisite: All of BIOL 112, CHEM 112, MATH 101, and 100-level PHYS beyond PHYS 100.
In Person Learning Micro/Field 4:00 p.m. - 5:00 p.m.

CAPS_V 210-001  CAPS_V 210 001 Human Health Literacy W1
An on-line course teaching students to research and understand relevant health diagnoses. Not for students with BIOLOGY 12, Anatomy and Physiology 12, ordfined in the faculties of Science, Land and Food Systems, Pharmaceutical Sciences, Applied Science or School of Kinesiology. [0-0-0]
Organ systems function with particular reference to nutrition and human physiology. See credit exclusion list. https://vancouver.calendar.ubc.ca/courses/collage/medicine/Physiology-Sci. Credit will only be granted for one of CAPS 201 or CAPS 205. [0-0-0] Prerequisite: Either SCIE 011 or 012 or all of BIO 112, 113, 114, and one of MATH 101, 103, 104, 105, 106, 120, or 125, 153, or 180, 184 and one of PHYS 100, PHYS 110, PHYS 120, PHYS 131, PHYS 150, and one of CHEM 201, CHEM 215, CHEM 260.
In Person Learning Micro/Field 3:00 p.m. - 4:00 p.m.

CAPS_V 218-001  CAPS_V 218 001 Laboratory in Human Physiology W1-2
Techniques and principles of human physiology. This course must be taken in conjunction with CAPS 201. Restricted to Cellular, Anatomical and Physiological Sciences and Pharmacology students. [3-0-0] Corequisite: One of CAPS 205, CAPS 206.
In Person Learning Micro/Field 4:00 p.m. - 5:00 p.m.

CAPS_V 230-001  CAPS_V 230 001 Introduction to Microscopic Human Anatomy W1
Organ system development, structure and function at the microscopic level. [3-0-0] Prerequisite: One of BIO 121, SCI 101. BIO 305 is recommended.
In Person Learning Micro/Field 5:00 p.m. - 6:00 p.m.

CAPS_V 231-001  CAPS_V 231 001 Introduction to Gross Human Anatomy W2
Structure and function of body regions at the macroscopic level. [3-0-0] Prerequisite: One of BIO 121, SCI 101. CHEM 100, KIN 100, KIN 101.
In Person Learning Micro/Field 6:00 p.m. - 7:00 p.m.

CAPS_V 238-001  CAPS_V 238 001 Cooperative Work Placement W1
Approved and supervised relevant work experience in an Industrial, academic, or government setting for a minimum of 15 weeks full-time. Work term report required. Restricted to students admitted to the Co-op Option in Cellular, Anatomical and Physiological Sciences (B.Sc.).
In Person Learning Micro/Field 7:00 p.m. - 8:00 p.m.

CAPS_V 238-002  CAPS_V 238 002 Cooperative Work Placement W2
Approved and supervised relevant work experience in an Industrial, academic, or government setting for a minimum of 15 weeks full-time. Work term report required. Restricted to students admitted to the Co-op Option in Cellular, Anatomical and Physiological Sciences (B.Sc.).
In Person Learning Micro/Field 8:00 p.m. - 9:00 p.m.

CAPS_V 239-001  CAPS_V 239 001 Cooperative Work Placement II W1
Approved and supervised relevant work experience in an Industrial, academic, or government setting for a minimum of 15 weeks full-time. Work term report required. Restricted to students admitted to the Co-op Option in Cellular, Anatomical and Physiological Sciences (B.Sc.).
In Person Learning Micro/Field 9:00 p.m. - 10:00 p.m.

CAPS_V 239-002  CAPS_V 239 002 Cooperative Work Placement II W2
Approved and supervised relevant work experience in an Industrial, academic, or government setting for a minimum of 15 weeks full-time. Work term report required. Restricted to students admitted to the Co-op Option in Cellular, Anatomical and Physiological Sciences (B.Sc.).
In Person Learning Micro/Field 10:00 p.m. - 11:00 p.m.

CAPS_V 241-001  CAPS_V 241 001 Cell Biology and Human Disease W1
The control and integration of cardio-pulmonary function in mammals. Intended for Honours students in Cellular, Anatomical and Physiological Sciences or other life sciences. [3-0-0] Prerequisite: Either (a) all of CAPS 205, CAPS 305 or (b) CAPS 310.
In Person Learning Micro/Field 11:00 p.m. - 12:00 a.m.

CAPS_V 242-001  CAPS_V 242 001 Mammalian Cardiovascular and Respiratory Physiology W1
Control of human renal and gastrointestinal systems. Role in homeostasis in health and disease. Intended for students in Cellular, Anatomical and Physiological Sciences or other life sciences. [3-0-0] Prerequisite: Either (a) all of CAPS 205, CAPS 305 or (b) CAPS 310.
In Person Learning Micro/Field 12:00 a.m. - 1:00 a.m.

CAPS_V 243-001  CAPS_V 243 001 Mammalian Endocrinology W2
Institutional control of homeostatic, metabolic and reproductive function. Intended for Honours students in Cellular, Anatomical and Physiological Sciences or other life sciences. [3-0-0] Prerequisite: A cumulative average of 75% or at least 60 credits attempted in the first three years of a student's program and a minimum rank of 75% in CAPS 205 or PHYS 201 or equivalent. Permission of the course director is also required.
In Person Learning Micro/Field 1:00 a.m. - 2:00 a.m.
**Cooperative Work Placement III**

501: In Person Learning

**In Person Learning**

**Graduate Practicum and Major Paper in Curatorial Studies**

503: In Person Learning

**In Person Learning**

**Introduction to Canada**

8:30 p.m. - 9:00 p.m.

**Intro to Canada**

501: In Person Learning

**In Person Learning**

**Living Inquiry in Learning Communities**

2:00 p.m. - 3:30 p.m.

**Living Inquiry**

501: In Person Learning

**In Person Learning**

**Nervous System Function in Human Health and Disease**

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

**Nervous System**

499: In Person Learning

**In Person Learning**

**Directed Studies in Physiology**

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

**Directed Studies**

A_001: In Person Learning

**In Person Learning**

**Written report and presentation on an independent investigation approved by the department head.**

2:00 p.m. - 3:30 p.m.

**Written Report**

W1-2: In Person Learning

**In Person Learning**

**Techniques relevant to human genetics and physiology in the assessment of human health and disease.**

 Approaches to the study of Canada from an interdisciplinary perspective, including cultural, political, historical, and economic dimensions.

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<td>Introduction to Canada</td>
<td>1</td>
<td>Mon Wed Thu</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Tue Thu 3:30 p.m. - 4:00 p.m.</td>
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<td>CDST_V 250-B_101</td>
<td>Canadian Studies</td>
<td>1</td>
<td>Mon Wed Thu</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Thu 3:00 p.m. - 6:00 p.m.</td>
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<td>CDST_V 250-B_102</td>
<td>Canadian Studies</td>
<td>1</td>
<td>Mon Wed Thu</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Thu 3:00 p.m. - 6:00 p.m.</td>
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<td>CDST_V 250-B_201</td>
<td>Sensor Sentinels in Canadian Studies</td>
<td>2</td>
<td>Mon Wed Thu</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Thu 9:00 a.m. - 10:00 p.m.</td>
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<td>CEDN_V 501-101</td>
<td>Energy System Fundamentals</td>
<td>2</td>
<td>Tue Thu</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Tue Thu 9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>CEDN_V 523-101</td>
<td>Energy and the Environment</td>
<td>2</td>
<td>Tue Thu</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Tue Thu 12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>CEDN_V 525-101</td>
<td>Energy Policy</td>
<td>1</td>
<td>Tue Thu</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Tue Thu 9:00 a.m. - 10:00 p.m.</td>
</tr>
<tr>
<td>CEDN_V 525-T01</td>
<td>Energy Policy</td>
<td>1</td>
<td>Tue Thu</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Tue Thu 10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>CELI_V 501-001</td>
<td>Cell and Developmental Biology Research Literature</td>
<td>2</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Mon Wed 10:00 a.m. - 12:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CELI_V 502-001</td>
<td>Current Topics in Developmental Biology</td>
<td>1</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Wed 9:00 a.m. - 10:00 a.m.</td>
<td></td>
</tr>
<tr>
<td>CELI_V 503-001</td>
<td>Current Topics in Cellular Communication</td>
<td>1</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Mon 4:00 p.m. - 6:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CELI_V 504-001</td>
<td>Current Topics in Cytoskeleton and Cell Motility</td>
<td>2</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Fri 2:00 p.m. - 4:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CELI_V 505-001</td>
<td>Current Topics in Intracellular Trafficking</td>
<td>2</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Thu 11:30 a.m. - 3:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CELI_V 506-001</td>
<td>Cell and Developmental Biology Research Literature</td>
<td>2</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Tue 3:30 p.m. - 4:30 p.m.</td>
<td></td>
</tr>
<tr>
<td>CELI_V 507-001</td>
<td>Special Techniques and Protocols in Cell and Developmental Biology</td>
<td>1</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Fri 12:00 p.m. - 3:00 p.m.</td>
<td></td>
</tr>
<tr>
<td>CELI_V 508-001</td>
<td>Molecular Genetic Analysis</td>
<td>2</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>CELI_V 509-001</td>
<td>Cell Systems Biology</td>
<td>2</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Tue 1:30 p.m. - 4:30 p.m.</td>
<td></td>
</tr>
<tr>
<td>CELI_V 549-001</td>
<td>M.Sc. Thesis</td>
<td>1</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>CELI_V 549-002</td>
<td>M.Sc. Thesis</td>
<td>2</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>CELI_V 549-003</td>
<td>M.Sc. Thesis</td>
<td>3</td>
<td>In Person Learning</td>
<td>W1-2</td>
<td>Arranged</td>
<td></td>
</tr>
</tbody>
</table>
Arctic Art and Activism
201308 5:00 p.m. - 8:00 p.m.

Becoming Multilingual: Experience, Aesthetics, Community

Witches: Myth and Reality

Great Works of Literature from Central, Eastern and Northern Europe (in English).

The Nazi Ghetto in film and literature from Central, Eastern, and Northern European Countries.

Great Works of Literature from Central, Eastern and Northern Europe (in English).

Great Works of Literature from Central, Eastern and Northern Europe (in English).

Great Works of Literature from Central, Eastern and Northern Europe (in English).

Great Works of Literature from Central, Eastern and Northern Europe (in English).

Great Works of Literature from Central, Eastern and Northern Europe (in English).

Great Works of Literature from Central, Eastern and Northern Europe (in English).

Great Works of Literature from Central, Eastern and Northern Europe (in English).

Great Works of Literature from Central, Eastern and Northern Europe (in English).

Structural monuments and sites dedicated to the history of an immigration from Central and Eastern Europe in Canada and their influence on Canadian cultures of remembrance.

An introduction to the cultural history of the peoples of Central, Eastern and Northern Europe as reflected in their literature, art and music.

An introduction to the cultural history of the peoples of Central, Eastern and Northern Europe as reflected in their literature, art and music.

An introduction to the cultural history of the peoples of Central, Eastern and Northern Europe as reflected in their literature, art and music.

Major works of Central, Eastern and Northern European literature from the eighteenth century to the present in their European context.

Major works of Central, Eastern and Northern European literature from the eighteenth century to the present in their European context.

Major works of Central, Eastern and Northern European literature from the eighteenth century to the present in their European context.

Major works of Central, Eastern and Northern European literature from the eighteenth century to the present in their European context.

Multi-access Learning

Multi-access Learning

Online Learning

Online Learning

Online Learning

Online Learning

Online Learning

Online Learning

Online Learning

Online Learning

Online Learning

Online Learning

Online Learning

Online Learning

Online Learning

In Person Learning

In Person Learning

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In Person Learning
In Person Learning

Founding Principles in Chemical and Biological Engineering II

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

Material and Energy Balances

W2

Computational Methods

102

W1

T1A

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

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. [3-0-2] Prerequisite: All of CHEM 154, MATH 102.

Fluid Mechanics. Momentum-transfer in fluids in laminar and turbulent flow; microscopic and macroscopic material; momentum and energy balances; rheology; dimensional analysis; flow in conduits, pumps, fluid metering. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: CHBE 241.

In Person Learning

Fri

3:30 p.m. - 5:30 p.m.

In Person Learning

In Person Learning

Transport Phenomena I

101

Tue Thu
8:00 a.m. - 9:30 a.m.

Chemical and Biological Engineering Thermodynamics I

221

Chemical and Biological Engineering Thermodynamics I

In Person Learning

Fri

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

Material and Energy Balances

W2

Material and Energy Balances

102

W1

T1B

Material and Energy Balances

103

Mon Wed Fri
9:30 a.m. - 11:00 a.m.

In Person Learning

Fri

4:00 p.m. - 6:00 p.m.

In Person Learning

In Person Learning

Transport Phenomena I

101

Tue Thu
8:00 a.m. - 9:30 a.m.

Chemical and Biological Engineering Thermodynamics I

In Person Learning

Fri

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

Material and Energy Balances

W2

Material and Energy Balances

102

W1

T1A

Material and Energy Balances

103

Mon Wed Fri
9:30 a.m. - 11:00 a.m.

In Person Learning

Fri

4:00 p.m. - 6:00 p.m.

In Person Learning

In Person Learning

Transport Phenomena I

101

Tue Thu
8:00 a.m. - 9:30 a.m.

Chemical and Biological Engineering Thermodynamics I

In Person Learning

Fri

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

Material and Energy Balances

W2

Material and Energy Balances

102

W1

T1A

Material and Energy Balances

103

Mon Wed Fri
9:30 a.m. - 11:00 a.m.

In Person Learning

Fri

4:00 p.m. - 6:00 p.m.

In Person Learning

In Person Learning

Transport Phenomena I

101

Tue Thu
8:00 a.m. - 9:30 a.m.

Chemical and Biological Engineering Thermodynamics I

In Person Learning

Fri

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

Material and Energy Balances

W2

Material and Energy Balances

102

W1

T1A

Material and Energy Balances

103

Mon Wed Fri
9:30 a.m. - 11:00 a.m.

In Person Learning

Fri

4:00 p.m. - 6:00 p.m.
Introduction to Chemical and Biological Engineering Laboratory Practice

**CHBE 262**

262 101 Laboratory experiment in 2nd year Chemical and Biological Engineering. This course is not eligible for Credit/D/Fail grading. [1-4-0] Prerequisite: CHBE 251. Corequisite: CHBE 246, CHBE 251. In Person Learning

**CHBE 262**

262 103 Introduction to Chemical and Biological Engineering Laboratory Practice

**CHBE 262**

262 104 Introduction to Chemical and Biological Engineering Laboratory Practice

**CHBE 262**

262 109 Introduction to Chemical and Biological Engineering Laboratory Practice

**CHBE 352**

352 101 Heat and mass transfer; conductive and molecular diffusion; convective transfer; analogies among heat, mass and momentum transfer; heat exchanger design; mass transfer coefficients; incompressible mass transfer. This course is not eligible for Credit/D/Fail grading. [1-0-2] Prerequisite: One of CHEM 230, CHEM 241, CHEM 251, MATH 256 or third-year standing in ENVE. In Person Learning

**CHBE 352**

352 103 Transport Phenomena I

**CHBE 352**

352 104 Transport Phenomena I

**CHBE 352**

352 109 Transport Phenomena I

**CHBE 355**

355 201 Kinetics and Reactor Design

**CHBE 355**

355 203 Kinetics and Reactor Design

**CHBE 355**

355 210 Kinetics and Reactor Design

**CHBE 355**

355 212 Kinetics and Reactor Design

**CHBE 355**

355 220 Kinetics and Reactor Design

**CHBE 356**

356 201 Process Dynamics and Control

**CHBE 356**

356 203 Process Dynamics and Control

**CHBE 356**

356 210 Process Dynamics and Control

**CHBE 362**

362 101 Process Engineering Laboratory

**CHBE 362**

362 103 Process Engineering Laboratory

**CHBE 362**

362 104 Process Engineering Laboratory

**CHBE 362**

362 110 Process Engineering Laboratory

**CHBE 362**

362 112 Process Engineering Laboratory

**CHBE 362**

362 118 Process Engineering Laboratory

**CHBE 363**

363 101 Chemical and Biological Engineering Laboratory

**CHBE 363**

363 103 Chemical and Biological Engineering Laboratory

**CHBE 363**

363 104 Chemical and Biological Engineering Laboratory

**CHBE 363**

363 110 Chemical and Biological Engineering Laboratory

**CHBE 363**

363 112 Chemical and Biological Engineering Laboratory

**CHBE 363**

363 118 Chemical and Biological Engineering Laboratory

**CHBE 364**

364 101 Chemical and Biological Engineering Thermodynamics I

**CHBE 364**

364 103 Chemical and Biological Engineering Thermodynamics I

**CHBE 364**

364 109 Chemical and Biological Engineering Thermodynamics I

**CHBE 364-T1A**

364-T1A 101 Introductions to Unit Operations

**CHBE 364-T1A**

364-T1A 103 Introductions to Unit Operations

**CHBE 364-T1A**

364-T1A 109 Introductions to Unit Operations

**CHBE 400**

400 101 Chemical and Biological Engineering Thermodynamics II

**CHBE 400**

400 103 Chemical and Biological Engineering Thermodynamics II

**CHBE 400**

400 109 Chemical and Biological Engineering Thermodynamics II

**CHBE 400-T1A**

400-T1A 101 Introductions to Unit Operations

**CHBE 400-T1A**

400-T1A 103 Introductions to Unit Operations

**CHBE 400-T1A**

400-T1A 109 Introductions to Unit Operations


**Chemical Process and Product Design**

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

- **Prerequisite:** Third-year standing in BASc or BSc.
- **Course Description:**
  - Definition of homogeneous catalysts, properties of catalysts, kinetics of catalytic reactions; ideal heterogeneous reactors; examples of industrial reactors. This course is not eligible for Credit/D/Fail grading. [3-0-2]\[\text{**}\]
  - Estimation of capital and operating costs; interest calculations; taxes; economic comparison of alternatives; economic optimization. This course is not eligible for Credit/D/Fail grading. [2-0-4; 2-0-4] **Prerequisite:** All of CHBE 241, CHBE 345, CHBE 356, CHBE 376, CHBE 381. Corequisite: All of CHBE 459, CHBE 481.

**Chemical and Biological Engineering Laboratory**

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

- **Prerequisite:** One of CHBE 241, MTRL 350, MECH 327.
- **Course Description:** Experiments in unit operations relating to process, environmental and biological engineering. Experiments are designed to provide experience in instrumentation and control. Field trips may be required. This course is not eligible for Credit/D/Fail grading. [3-0-0] **Prerequisite:** All of CHBE 241, CHBE 256, CHBE 356, CHBE 362 and one of CHBE 360, CHBE 386.

**Biological Process and Product Design**

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

- **Prerequisite:** One of CHBE 346, MTRL 350, MECH 327.
- **Course Description:** Experiments are designed to provide experience in instrumentation and control. Field trips may be required. This course is not eligible for Credit/D/Fail grading. [3-0-0] **Prerequisite:** All of CHBE 241, CHBE 256, CHBE 356, CHBE 362 and one of CHBE 360, CHBE 386.

**Classical thermodynamic relations from a molecular perspective. Pressure-volume-temperature relations; chemical equilibria by Gibbs' method, vapor-liquid equilibria; thermodynamic calculations based on microscopic and statistical methods; nonequilibrium processes; molecular simulations. Credit will be granted for only one of CHBE 451, CHBE 453. This course is not eligible for Credit/D/Fail grading. [3-0-2]\[\text{**}\]** **Prerequisite:** One of CHBE 241, MTRL 350, MECH 327.

**Classical thermodynamic relations from a molecular perspective. Pressure-volume-temperature relations; chemical equilibria by Gibbs' method, vapor-liquid equilibria; thermodynamic calculations based on microscopic and statistical methods; nonequilibrium processes; molecular simulations. Credit will be granted for only one of CHBE 451, CHBE 453. This course is not eligible for Credit/D/Fail grading. [3-0-2]\[\text{**}\]** **Prerequisite:** One of CHBE 241, MTRL 350, MECH 327.

**In Person Learning**

**Chemical and Biological Engineering Laboratory**

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

- **Prerequisite:** One of CHBE 241, MTRL 350, MECH 327.
- **Course Description:** Experiments in unit operations relating to process, environmental and biological engineering. Experiments are designed to provide experience in instrumentation and control. Field trips may be required. This course is not eligible for Credit/D/Fail grading. [3-0-0] **Prerequisite:** All of CHBE 241, CHBE 256, CHBE 356, CHBE 362 and one of CHBE 360, CHBE 386.

**Chemical and Biological Engineering Laboratory**

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

- **Prerequisite:** One of CHBE 241, MTRL 350, MECH 327.
- **Course Description:** Experiments in unit operations relating to process, environmental and biological engineering. Experiments are designed to provide experience in instrumentation and control. Field trips may be required. This course is not eligible for Credit/D/Fail grading. [3-0-0] **Prerequisite:** All of CHBE 241, CHBE 256, CHBE 356, CHBE 362 and one of CHBE 360, CHBE 386.

**Heterogenous Catalysis and Advanced Reactor Design**

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

- **Prerequisite:** All of CHBE 230, CHBE 352, CHBE 355.
- **Course Description:** Definition of heterogeneous catalysis; properties of catalysts, kinetics of catalytic reactions; ideal heterogeneous reactors; non-isothermal reactor design; mass and heat transfer effects in heterogeneous reactors; examples of industrial reactors. This course is not eligible for Credit/D/Fail grading. [3-0-2]\[\text{**}\]** **Prerequisite:** All of CHBE 230, CHBE 352, CHBE 355. Corequisite: All of CHBE 356, CHBE 486.

**Heterogenous Catalysis and Advanced Reactor Design**

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

- **Prerequisite:** All of CHBE 230, CHBE 352, CHBE 355.
- **Course Description:** Definition of heterogeneous catalysis; properties of catalysts, kinetics of catalytic reactions; ideal heterogeneous reactors; examples of industrial reactors. This course is not eligible for Credit/D/Fail grading. [3-0-2]\[\text{**}\]** **Prerequisite:** All of CHBE 230, CHBE 352, CHBE 355.

**In Person Learning**

**Chemical and Biological Engineering Laboratory**

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

- **Prerequisite:** One of CHBE 241, MTRL 350, MECH 327.
- **Course Description:** Experiments in unit operations relating to process, environmental and biological engineering. Experiments are designed to provide experience in instrumentation and control. Field trips may be required. This course is not eligible for Credit/D/Fail grading. [3-0-0] **Prerequisite:** All of CHBE 241, CHBE 256, CHBE 356, CHBE 362 and one of CHBE 360, CHBE 386.

**In Person Learning**

**Chemical and Biological Engineering Laboratory**

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

- **Prerequisite:** One of CHBE 241, MTRL 350, MECH 327.
- **Course Description:** Experiments in unit operations relating to process, environmental and biological engineering. Experiments are designed to provide experience in instrumentation and control. Field trips may be required. This course is not eligible for Credit/D/Fail grading. [3-0-0] **Prerequisite:** All of CHBE 241, CHBE 256, CHBE 356, CHBE 362 and one of CHBE 360, CHBE 386.
CHBE 473-101  
General Chemistry for Science and Engineering  
473  
101  
Chemical Process Engineering  
In Person Learning  
Tue Thu  
9:30 a.m. - 11:00 a.m.  
Credit will be granted for only one of CHBE 357, CHBE 487, or CHBE 587. This course is not eligible for Credit/D/Fail grading. (3-0-0) Prerequisite: All of CHBE 345, CHBE 352, CHBE 355.

CHBE 473-11A  
General Chemistry for Science and Engineering  
473  
T1A  
Chemical Process Engineering  
In Person Learning  
Tue Thu  
10:00 a.m. - 11:00 a.m.  
Credit will be granted for only one of CHBE 357, CHBE 487, or CHBE 587. This course is not eligible for Credit/D/Fail grading. (3-0-0) Prerequisite: All of CHBE 345, CHBE 352, CHBE 355.

CHBE 472-201  
Technologies for Human and Environmental Health  
472  
201  
In Person Learning  
Tue Thu  
12:00 p.m. - 1:00 p.m.  
Fate of air-born chemicals and the associated impacts of air pollutants on health, visibility, smog and CO2. Credit will be granted for only one of CHBE 472 or CHBE 572. This course is not eligible for Credit/D/Fail grading. (3-0-0) Prerequisite: Fourth year standing in BASc. or BSc.

CHBE 472-201  
Technologies for Human and Environmental Health  
472  
201  
In Person Learning  
Wed  
12:00 p.m. - 1:00 p.m.  
How chemical and biological waste impact the environment. Concepts and calculations involving: separations, mass transfer; reaction kinetics, mixing, electrochemistry, and others. Analysis tools employed include: limits of detection, sensitivity, specificity, and other measures. Credit will be granted for only one of CHBE 472 or CHBE 572. This course is not eligible for Credit/D/Fail grading. (3-0-0) Prerequisite: Fourth year standing in BASc. or BSc.

CHBE 477-201  
Energy Systems Modelling, Simulation and Optimization  
477  
201  
In Person Learning  
Fri  
4:00 p.m. - 6:00 p.m.  
Mathematical modelling of chemical plants and processes; computer simulation; introduction to numerical optimization techniques. Recommended Permission: All of CHBE 345, CHBE 374. This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisite: CHBE381

CHBE 477-201  
Energy Systems Modelling, Simulation and Optimization  
477  
201  
In Person Learning  
Wed  
4:00 p.m. - 6:00 p.m.  
Mathematical modelling of chemical plants and processes; computer simulation; introduction to numerical optimization techniques. Recommended Permission: All of CHBE 345, CHBE 374. This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisite: CHBE381

CHBE 477-201  
Energy Systems Modelling, Simulation and Optimization  
477  
201  
In Person Learning  
Tue  
4:00 p.m. - 6:00 p.m.  
Mathematical modelling of chemical plants and processes; computer simulation; introduction to numerical optimization techniques. Recommended Permission: All of CHBE 345, CHBE 374. This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisite: CHBE381

CHBE 474-101  
Process Control Engineering  
474  
101  
In Person Learning  
Mon Wed Fri  
4:00 p.m. - 7:00 p.m.  
Stoichiometry, thermodynamics and kinetics of electrode reactions; conductivity and mass transport in electrolytes; materials, energy and voltage balances; design of electrolysis, electrolysis of metals, and energy generation of batteries and fuel cells. Credit will be granted for only one of CHBE 477, CHBE 577. This course is not eligible for Credit/D/Fail grading. (3-0-0) Prerequisite: All of CHBE 202, CHBE 205, CHBE 344 for students enrolled in CHBE, or fourth-year standing in BASc.

CHBE 474-101  
Process Control Engineering  
474  
T1A  
In Person Learning  
Tue Thu  
3:00 p.m. - 6:00 p.m.  
Stoichiometry, thermodynamics and kinetics of electrode reactions; conductivity and mass transport in electrolytes; materials, energy and voltage balances; design of electrolysis, electrolysis of metals, and energy generation of batteries and fuel cells. Credit will be granted for only one of CHBE 477, CHBE 577. This course is not eligible for Credit/D/Fail grading. (3-0-0) Prerequisite: All of CHBE 202, CHBE 205, CHBE 344 for students enrolled in CHBE, or fourth-year standing in BASc.

CHBE 476-T1A  
Process Control Engineering  
476  
T1A  
In Person Learning  
Wed  
9:30 a.m. - 11:00 a.m.  
Synthesis, design and simulation of separation and reaction systems. Steady state and dynamic simulation. Application to energy systems optimization. This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisite: CHBE381.

CHBE 476-T1A  
Process Control Engineering  
476  
T1A  
In Person Learning  
Mon  
9:30 a.m. - 11:00 a.m.  
Synthesis, design and simulation of separation and reaction systems. Steady state and dynamic simulation. Application to energy systems optimization. This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisite: CHBE381.

CHBE 476-T1A  
Process Control Engineering  
476  
T1A  
In Person Learning  
Fri  
9:30 a.m. - 11:00 a.m.  
Synthesis, design and simulation of separation and reaction systems. Steady state and dynamic simulation. Application to energy systems optimization. This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisite: CHBE381.

CHBE 476-101  
Advanced Process Engineering and Simulation  
476  
101  
In Person Learning  
Mon Wed Fri  
2:00 p.m. - 4:00 p.m.  
In Person Learning  
Mon Wed  
2:00 p.m. - 4:00 p.m.  
In Person Learning  
Mon Wed Fri  
2:00 p.m. - 4:00 p.m.  
This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisite: CHBE381.

CHBE 476-101  
Advanced Process Engineering and Simulation  
476  
101  
In Person Learning  
Mon Wed Fri  
2:00 p.m. - 4:00 p.m.  
This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisite: CHBE381.

CHBE 476-101  
Advanced Process Engineering and Simulation  
476  
101  
In Person Learning  
Mon Wed Fri  
2:00 p.m. - 4:00 p.m.  
This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisite: CHBE381.

CHBE 476-101  
Advanced Process Engineering and Simulation  
476  
101  
In Person Learning  
Mon Wed Fri  
2:00 p.m. - 4:00 p.m.  
This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisite: CHBE381.

CHBE 476-101  
Advanced Process Engineering and Simulation  
476  
101  
In Person Learning  
Mon Wed Fri  
2:00 p.m. - 4:00 p.m.  
This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisite: CHBE381.

CHBE 476-101  
Advanced Process Engineering and Simulation  
476  
101  
In Person Learning  
Mon Wed Fri  
2:00 p.m. - 4:00 p.m.  
This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisite: CHBE381.

CHBE 476-101  
Advanced Process Engineering and Simulation  
476  
101  
In Person Learning  
Mon Wed Fri  
2:00 p.m. - 4:00 p.m.  
This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisite: CHBE381.
Examination of carbon capture technologies, and CO₂ conversion and separation options. Technical foundations on carbon cycle, thermodynamics, transport, absorption, adsorption, separation, mineralization and conversions. 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. (3-0-3) Prerequisite: One of CHBE 244, MTRL 252 and one of CHBE 251, CIVL 215, MTRL 263. In Person Learning Mon 3:00 p.m. - 4:30 p.m.

Examination of carbon capture technologies, and CO₂ conversion and separation options. Technical foundations on carbon cycle, thermodynamics, transport, absorption, adsorption, separation, mineralization and conversions. 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. (3-0-3) Prerequisite: One of CHBE 244, MTRL 252 and one of CHBE 251, CIVL 215, MTRL 263. In Person Learning Tue 4:30 p.m. - 6:00 p.m.

Literature 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. (3-0-3) Prerequisite: All of CHBE 242, CHBE 346. In Person Learning Wed 8:00 a.m. - 9:00 a.m.

Research project under the direction of a staff member. This course is not eligible for Credit/D/Fail grading. (3-0-0) Prerequisite: CHBE 496A. In Person Learning Wed 8:00 a.m. - 9:00 a.m.

Literature search, planning, equipment design for an individual research project leading to a written proposal and oral presentation. Topics to be chosen from a selection of biotechnology topics offered by the department. This course is not eligible for Credit/D/Fail grading. (3-0-3) Prerequisite: CHBE 242, CHBE 346. In Person Learning Wed 8:00 a.m. - 9:00 a.m.

Environmental engineering research topic. This course is not eligible for Credit/D/Fail grading. (3-0-0) Prerequisite: CHBE 496A. In Person Learning Wed 8:00 a.m. - 9:00 a.m.

Literature search, planning, equipment design for an individual research project leading to a written proposal and oral presentation. Topics to be chosen from a selection of biotechnology topics offered by the department. This course is not eligible for Credit/D/Fail grading. (3-0-3) Prerequisite: CHBE 242, CHBE 346. In Person Learning Wed 8:00 a.m. - 9:00 a.m.

Biotechnological engineering research topic. This course is not eligible for Credit/D/Fail grading. (3-0-0) Prerequisite: CHBE 496A. In Person Learning Wed 8:00 a.m. - 9:00 a.m.

Seminar or lecture. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue 12:30 p.m. - 2:00 p.m.

Seminar or lecture. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Tue Fri 11:00 a.m. - 12:30 p.m.

Seminar or lecture. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Tue Fri 11:00 a.m. - 12:30 p.m.

Master's Thesis for M.Sc. W1-2 This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

Master's Thesis for M.Sc. W1-2 This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

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Master's Thesis for M.Sc. W1-2 This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

Topics in Chemical and Biological Engineering. W1-2 This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

Topics vary from year to year. Amongst these will be dimensional analysis and model theory, treatment and interpretation of chemical engineering data, formulation and solution of differential and finite difference equations; graphical, numerical and statistical methods. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Tue Fri 10:30 a.m. - 12:30 p.m.

Basic concepts of optimization and structure of mathematical models. Gradient methods, Direct search methods. Gauss-Newton method for parameter optimization in models described by ordinary and partial differential equations. Constrained optimization, Statistical inference. Design of experiments. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Fri 2:00 p.m. - 3:30 p.m.

Classical thermodynamic relations from a molecular perspective. Pressure-volume-temperature relations; chemical equilibria by Gibbs' method; vapor-liquid equilibria; thermodynamic calculations based on microscopic and statistical methods; nonequilibrium processes; molecular simulations. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Fri 2:00 p.m. - 3:30 p.m.

Classical thermodynamic relations from a molecular perspective. Pressure-volume-temperature relations; chemical equilibria by Gibbs' method; vapor-liquid equilibria; thermodynamic calculations based on microscopic and statistical methods; nonequilibrium processes; molecular simulations. Credit will be granted for only one of CHBE 488 or CHBE 588. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Fri 2:00 p.m. - 3:30 p.m.

Topics vary from year to year. Amongst these will be dimensional analysis and model theory, treatment and interpretation of chemical engineering data, formulation and solution of differential and finite difference equations; graphical, numerical and statistical methods. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Tue Fri 10:30 a.m. - 12:30 p.m.

Topics vary from year to year. Amongst these will be dimensional analysis and model theory, treatment and interpretation of chemical engineering data, formulation and solution of differential and finite difference equations; graphical, numerical and statistical methods. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Tue Fri 10:30 a.m. - 12:30 p.m.

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CHBE 554-101 CHBE 491 101 Momentum, Heat and Mass Transfer

Prediction of velocity, temperature, and concentration profiles for flowing fluids, applying concepts in momentum, heat, and mass transport; streamline flow and turbulence, molecular and eddy conduction and diffusion, boundary layers, smooth and rough conduits, and other boundaries. This course is not eligible for Credit/No Credit grading. In Person Learning Tue Thu 9:00 a.m. - 10:10 a.m.

CHBE 554-201 CHBE 489 201 Momentum, Heat and Mass Transfer

Prediction of velocity, temperature, and concentration profiles for flowing fluids, applying concepts in momentum, heat, and mass transport; streamline flow and turbulence, molecular and eddy conduction and diffusion, boundary layers, smooth and rough conduits, and other boundaries. This course is not eligible for Credit/No Credit grading. In Person Learning Arranged Arranged

CHBE 554-2P CHBE 543 201 Momentum, Heat and Mass Transfer

Prediction of velocity, temperature, and concentration profiles for flowing fluids, applying concepts and analogies in momentum, heat, and mass transport; streamline flow and turbulence, molecular and eddy conduction and diffusion, boundary layers, smooth and rough conduits, and other boundaries. This course is not eligible for Credit/No Credit grading. In Person Learning Arranged Arranged

CHBE 558 C 101 Topics in Chemical Engineering

A discussion of some aspects of modern Chemical Engineering. Subject matter varies each year. This course is not eligible for Credit/No Credit grading. In Person Learning Tue Thu 10:00 a.m. - 11:00 a.m.

CHBE 560-201 CHBE 588 201 Biological Engineering and Bio-Manufacturing

Biological process engineering in the fields of biotechnology and biomedical engineering; axiomatic and interfacial theories; cell culture, biomass transport and process development; bioreactor design and operation. Critical analysis of recent biological engineering research articles. Credit will be granted for only one of CHBE 588 or CHBE 560. This course is not eligible for Credit/No Credit grading. (3-0-2) In Person Learning Fri 10:00 a.m. - 11:30 a.m.

CHBE 560-T2A CHBE 560 201 T2A Biological Engineering and Bio-Manufacturing

Biological process engineering in the fields of biotechnology and biomedical engineering; axiomatic and interfacial theories; cell culture, biomass transport and process development; bioreactor design and operation. Critical analysis of recent biological engineering research articles. Credit will be granted for only one of CHBE 588 or CHBE 560. This course is not eligible for Credit/No Credit grading. (3-0-2) In Person Learning Mon (Alternate weeks) 2:00 p.m. - 4:00 p.m.

CHBE 563 201 CHBE 563 201 Applied Heterogeneous Catalysis

Techniques for characterizing catalysts and their surfaces. Commercial methods of preparing catalysts. Chemistry of catalytic reactions and its impact on catalyst properties, mechanisms and kinetics in reactor engineering. Applications of catalytic oxidation, hydrogenations, C-C bond formation and cracking. This course is not eligible for Credit/No Credit grading. In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.

CHBE 564 201 CHBE 564 201 Industrial Biotechnology Laboratory

Modern biocatalyst technology, upstream and downstream processing of biotechnology products. Credit will be granted for only one of CHBE 564 or CHBE 410. This course is not eligible for Credit/No Credit grading. (1-4-0) In Person Learning Fri 3:00 p.m. - 4:00 p.m.

CHBE 564-12A CHBE 564 12A Industrial Biotechnology Laboratory

Modern biocatalyst technology, upstream and downstream processing of biotechnology products. Credit will be granted for only one of CHBE 564 or CHBE 410. This course is not eligible for Credit/No Credit grading. (1-4-0) In Person Learning Mon 1:00 p.m. - 2:00 p.m.

CHBE 565 201 CHBE 565 201 Advanced Process Control

Discrete-time chemical system modeling; model-based predictive control; predictive controller design, analysis of design parameters; controller stability; robustness and performance analysis. Select topics from current developments in the literature. This course is not eligible for Credit/No Credit grading. In Person Learning Tue Thu 9:00 a.m. - 10:30 a.m.

CHBE 567-201 CHBE 577 201 Technologies for Human and Environmental Health

Fundamentals of cutting-edge biocatalysis technologies with an emphasis on applications in health and the environment. Concepts and calculations involving: separations, mass transfer, reaction kinetics, mixing, electrochemistry, and others. Analysis tools emphasized 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/No Credit grading. In Person Learning Tue 4:10 p.m. - 7:00 p.m.

CHBE 573-201 CHBE 573 201 Environmental Engineering and Sustainability Leadership

Electrochemical interfaces; electrode reactions; thermodynamics; kinetics and transport processes in electrochemical systems; experimental techniques; electrochemical reactions and processes; modeling, design, and economics. Electrochemical technologies; electrolysers, batteries and fuel cells, Electro-metallurgy, electro-winning and refining of metals, corrosion, leaching and remediation. Credit will be granted for only one of CHBE 477 or CHBE 577. This course is not eligible for Credit/No Credit grading. In Person Learning Tue Thu 9:00 a.m. - 12:30 p.m.

CHBE 583 201 CHBE 583 201 Energy Engineering for Climate Change and Sustainability

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 (weather usage, environmental footprint, resource use, etc.). Credit will be granted for only one of CHBE 483 or CHBE 583. This course is not eligible for Credit/No Credit grading. In Person Learning Mon Wed Fri 10:06 a.m. - 11:00 a.m.

CHBE 585-101 CHBE 585 101 Air Pollution Prevention and Air Quality Engineering

Fate of air-born chemicals and the associated impacts of air pollutants on health, visibility, smog formation, ozone depletion and global warming; air quality and emission standards; atmospheric dispersion of air pollutants; prevention and control technologies for particulates, SOx, NOx, VOCs, and CO2. Credit will be granted for only one of CHBE 475, CHBE 485, or CHBE 585. This course is not eligible for Credit/No Credit grading. In Person Learning Mon Wed Fri 12:00 p.m. - 1:00 p.m.

CHBE 585-T1A CHBE 585 T1A Air Pollution Prevention and Air Quality Engineering

Fate of air-born chemicals and the associated impacts of air pollutants on health, visibility, smog formation, ozone depletion and global warming; air quality and emission standards; atmospheric dispersion of air pollutants; prevention and control technologies for particulates, SOx, NOx, VOCs, and CO2. Credit will be granted for only one of CHBE 475, CHBE 485, or CHBE 585. This course is not eligible for Credit/No Credit grading. In Person Learning Wed (Alternate weeks) 2:00 p.m. - 4:00 p.m.

CHBE 587 201 CHBE 587 201 Interfacial Phenomena

Outline of the physics and chemistry of interfaces; discussion of the part played by surface effects in technical processes. Credit will be granted for only one of CHBE 587, CHBE 487, or CHBE 485. In Person Learning In Person Learning In Person Learning
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- Fashioned for bonding theories, structural chemistry and equilibrium with applications relevant to modern society. [3-3-1] Prerequisite: Not open to students with credit for CHEM 12. A satisfactory score on the UBC Chemistry Basic Skills Test is required. Permission of the department head.
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- Atomic and molecular properties, chemical reactions, bonding, nomenclature, kinetics, equilibrium processes, acids and bases, oxidation and reduction. Intended for students who do not receive a satisfactory score on the UBC Chemistry Basic Skills Test, and need to establish a foundation of chemistry skills before proceeding to other first year chemistry courses. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Not open to students with credit for Chemistry 12. Permission of the department head.
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<td>CHEM_V 121-131</td>
<td>CHEM_V</td>
<td>121 131 Structure and Bonding in Chemistry</td>
<td>In Person Learning</td>
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<td>CHEM_V 121-132</td>
<td>CHEM_V</td>
<td>121 132 Structure and Bonding in Chemistry</td>
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<td>132 132 Structure and Bonding in Chemistry</td>
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<td>CHEM141</td>
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</table>
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

In Person Learning Thu 9:30 a.m. - 12:30 p.m.

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

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In Person Learning Arranged Arranged

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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

In Person Learning Arranged Arranged

Thermodynamics, Kinetics, and Organic Chemistry

In Person Learning Tue Thu 2:00 p.m. - 3:10 p.m.

Thermodynamics, Kinetics, and Organic Chemistry

In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.
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.

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.

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.
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<tr>
<td>CHEM 111</td>
<td>Introductory Chemical Laboratory I</td>
<td>0-3-0</td>
<td>Wed</td>
<td>12:00</td>
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<tr>
<td>CHEM 115</td>
<td>Introductory Chemical Laboratory II</td>
<td>0-3-0</td>
<td>Thu</td>
<td>13:00</td>
<td>Arranged</td>
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<tr>
<td>CHEM 121</td>
<td>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.</td>
<td>3-3-0</td>
<td>Fri</td>
<td>16:00</td>
<td>Arranged</td>
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<tr>
<td>CHEM 141-101</td>
<td>Chemical Bonding, Molecular Structure and Properties for Lab Sciences</td>
<td>3-3-0</td>
<td>Mon</td>
<td>12:00</td>
<td>Arranged</td>
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<tr>
<td>CHEM 141-116</td>
<td>Chemical Bonding, Molecular Structure and Properties for Lab Sciences</td>
<td>3-3-0</td>
<td>Thu</td>
<td>12:00</td>
<td>Arranged</td>
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<tr>
<td>CHEM 141-117</td>
<td>Chemical Bonding, Molecular Structure and Properties for Lab Sciences</td>
<td>3-3-0</td>
<td>Fri</td>
<td>14:00</td>
<td>Arranged</td>
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<tr>
<td>CHEM 141-118</td>
<td>Chemical Bonding, Molecular Structure and Properties for Lab Sciences</td>
<td>3-3-0</td>
<td>Sat</td>
<td>10:00</td>
<td>Arranged</td>
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<tr>
<td>CHEM 141-119</td>
<td>Chemical Bonding, Molecular Structure and Properties for Lab Sciences</td>
<td>3-3-0</td>
<td>Sun</td>
<td>12:00</td>
<td>Arranged</td>
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<tr>
<td>CHEM 150-111</td>
<td>Chemistry for Engineering</td>
<td>3-3-0</td>
<td>Tue</td>
<td>16:00</td>
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<tr>
<td>CHEM 150-133</td>
<td>Chemistry for Engineering</td>
<td>3-3-0</td>
<td>Thu</td>
<td>12:00</td>
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<tr>
<td>CHEM 150-177</td>
<td>Chemistry for Engineering</td>
<td>3-3-0</td>
<td>Mon</td>
<td>13:00</td>
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<td>CHEM_V</td>
<td>10:00 a.m.</td>
<td>L2</td>
<td>R. Smith</td>
<td>Introduction to Organic Chemistry</td>
<td>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. Prerequisite: Either (a) CHEM 123 or (b) all of CHEM 120, 121, or 122, (c) MAT 100 or 101, (d) MAT 102 and 103, (e) MAT 104 and 105, or (f) MAT 106.</td>
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<tr>
<td>CHEM_V</td>
<td>10:00 a.m.</td>
<td>L3</td>
<td>R. Smith</td>
<td>Physical Chemistry</td>
<td>Chemical kinetics and thermodynamics useful in biological, medical, agricultural, earth, and related sciences. Prerequisites: Either (a) SCIE 105 or (b) one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120 and MATH 121, or (c) MATH 122.</td>
</tr>
<tr>
<td>Section</td>
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<td>Time/Location</td>
<td>In Person Learning</td>
<td>Notes</td>
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<tr>
<td>CHEM V 205-222</td>
<td></td>
<td>Physical Chemistry</td>
<td>W2</td>
<td>Chemical kinetics and thermodynamics and spectros copy useful in biological, medical, agricultural, earth, and related sciences. (3-0-0) Prerequisite: Either (a) SCIE 001 or (b) one of MATH 102, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180 and one of CHEM 130, CHEM 123, CHEM 154. In Person Learning Tue Thu</td>
<td>2:00 p.m. - 3:10 p.m.</td>
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<tr>
<td>CHEM V 205-701</td>
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<td>Physical Chemistry</td>
<td>W2</td>
<td>Chemical kinetics and thermodynamics and spectros copy useful in biological, medical, agricultural, earth, and related sciences. (3-0-0) Prerequisite: Either (a) SCIE 001 or (b) one of MATH 102, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180 and one of CHEM 130, CHEM 123, CHEM 154. In Person Learning Arranged</td>
<td>Arranged</td>
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<tr>
<td>CHEM V 208-112</td>
<td></td>
<td>Coordination Chemistry</td>
<td>W1</td>
<td>Fundamental concepts and principles governing bonding and reactivity of coordination complexes. (4-0-0) Prerequisite: One of CHEM 130, CHEM 123, SCIE 001. In Person Learning Mon Wed Fri</td>
<td>3:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>CHEM V 208-707</td>
<td></td>
<td>Coordination Chemistry</td>
<td>W1</td>
<td>Fundamental concepts and principles governing bonding and reactivity of coordination complexes. (4-0-0) Prerequisite: One of CHEM 130, CHEM 123, SCIE 001. In Person Learning</td>
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</table>
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]
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<tr>
<th>Code</th>
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<th>Notes</th>
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<tr>
<td>CHEM_V 211-LCS</td>
<td>CHEM_V 211 LCS Introduction to Chemical Analysis W1</td>
<td>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 101.</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>CHEM_V 211-LD2</td>
<td>CHEM_V 211 LD2 Introduction to Chemical Analysis W1</td>
<td>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 101.</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>CHEM_V 211-LD3</td>
<td>CHEM_V 211 LD3 Introduction to Chemical Analysis W1</td>
<td>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 101.</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>CHEM_V 211-LD4</td>
<td>CHEM_V 211 LD4 Introduction to Chemical Analysis W1</td>
<td>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 101.</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>CHEM_V 211-LD5</td>
<td>CHEM_V 211 LD5 Introduction to Chemical Analysis W1</td>
<td>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 101.</td>
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<tr>
<td>CHEM_V 211-LMT</td>
<td>CHEM_V 211 LMT Introduction to Chemical Analysis W1</td>
<td>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 101.</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>CHEM_V 213-201</td>
<td>CHEM_V 213 201 Organic Chemistry W2</td>
<td>Spectroscopy of organic compounds: Mechanistic analysis of chemical reactivity of common functional groups with a focus on carbon-carbon bond formation; functional group interconversion. Preference will be given to students in Chemistry or Biochemistry specializations. [3-0-0] Prerequisite: Either (a) CHEM 202, CHEM 223 or (b) a score of 76% or higher in CHEM 220.</td>
<td>In Person Learning Micro Wed Fri 1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>CHEM_V 215-101</td>
<td>CHEM_V 215 101 Introductory Analytical Chemical Laboratory W1</td>
<td>An introduction to the principles and techniques in the analytical chemistry laboratory. [1-3-0] Prerequisite: CHEM 210 and one of CHEM 123, CHEM 135.</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>CHEM_V 215-102</td>
<td>CHEM_V 215 102 Introductory Analytical Chemical Laboratory W2</td>
<td>An introduction to the principles and techniques in the analytical chemistry laboratory. [1-3-0] Prerequisite: CHEM 210 and one of CHEM 123, CHEM 135.</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>CHEM_V 218-212</td>
<td>CHEM_V 218 212 Fundamentals of Reactivity in Inorganic Chemistry W2</td>
<td>Chemical reactivity of Inorganic systems: oxidation/reduction chemistry, multiply-bonded systems, main group chemistry. This course is not eligible for Credit/D/Fail grading. [1-0-0] Prerequisite: CHEM 208.</td>
<td>In Person Learning Micro Wed Fri 12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>CHEM_V 218-707</td>
<td>CHEM_V 218 707 Fundamentals of Reactivity in Inorganic Chemistry W2</td>
<td>Chemical reactivity of Inorganic systems: oxidation/reduction chemistry, multiply-bonded systems, main group chemistry. This course is not eligible for Credit/D/Fail grading. [1-0-0] Prerequisite: CHEM 208.</td>
<td>In Person Learning Thu 5:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>CHEM_V 220-101</td>
<td>CHEM_V 220 101 Introduction to Organic Chemistry (Lecture) W1</td>
<td>Structure, bonding and physical properties of aliphatic and aromatic compounds; mechanistic analysis of chemical reactivity of common functional groups with a focus on carbon-heteroatom bond formation; functional group interconversion and oxidation/reduction reactions. Only open to students in Chemistry or Biochemistry specializations. Students should consult the Credit Exclusion List for credit exclusions relating to second year organic chemistry courses. [3-0-0] Prerequisite: One of CHEM 123, CHEM 135, SCIE 101.</td>
<td>In Person Learning Micro Wed Fri 1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>CHEM_V 220-106</td>
<td>CHEM_V 220 106 Introductory Synthetic Chemical Laboratory W1</td>
<td>An introduction to the principles and techniques in the synthetic organic and inorganic chemistry laboratory. [1-3-0] Prerequisite: One of CHEM 123, CHEM 135.</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>CHEM_V 220-107</td>
<td>CHEM_V 220 107 Introductory Synthetic Chemical Laboratory W1</td>
<td>An introduction to the principles and techniques in the synthetic organic and inorganic chemistry laboratory. [1-3-0] Prerequisite: One of CHEM 123, CHEM 135.</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>CHEM_V 220-108</td>
<td>CHEM_V 220 108 Introductory Synthetic Chemical Laboratory W1</td>
<td>An introduction to the principles and techniques in the synthetic organic and inorganic chemistry laboratory. [1-3-0] Prerequisite: One of CHEM 123, CHEM 135.</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>CHEM_V 220-109</td>
<td>CHEM_V 220 109 Introductory Synthetic Chemical Laboratory W1</td>
<td>An introduction to the principles and techniques in the synthetic organic and inorganic chemistry laboratory. [1-3-0] Prerequisite: One of CHEM 123, CHEM 135.</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>CHEM_V 220-110</td>
<td>CHEM_V 220 110 Organic Chemistry for the Biological Sciences W1</td>
<td>Reactions and properties of carbohydrate compounds, carbohydrates, amino acids, nucleic acids. Credit will be granted for only one of CHEM 233 or CHEM 203 or CHEM 223. [1-0-0] Prerequisite: One of CHEM 123, CHEM 135, SCIE 101.</td>
<td>In Person Learning Micro Wed Fri 10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>CHEM_V 220-122</td>
<td>CHEM_V 220 122 Organic Chemistry for the Biological Sciences W1</td>
<td>Reactions and properties of carbohydrate compounds, carbohydrates, amino acids, nucleic acids. Credit will be granted for only one of CHEM 233 or CHEM 203 or CHEM 223. [1-0-0] Prerequisite: One of CHEM 123, CHEM 135, SCIE 101.</td>
<td>In Person Learning Tue Thu 1:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>CHEM_V 220-123</td>
<td>CHEM_V 220 123 Organic Chemistry for the Biological Sciences W1</td>
<td>Reactions and properties of carbohydrate compounds, carbohydrates, amino acids, nucleic acids. Credit will be granted for only one of CHEM 233 or CHEM 203 or CHEM 223. [1-0-0] Prerequisite: One of CHEM 123, CHEM 135, SCIE 101.</td>
<td>In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>CHEM_V 220-199</td>
<td>CHEM_V 220 199 Organic Chemistry for the Biological Sciences W1</td>
<td>Reactions and properties of carbohydrate compounds, carbohydrates, amino acids, nucleic acids. Credit will be granted for only one of CHEM 233 or CHEM 203 or CHEM 223. [1-0-0] Prerequisite: One of CHEM 123, CHEM 135, SCIE 101.</td>
<td>In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.</td>
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In Person Learning

Chemistry Integrated Laboratory I
W1
2:00 p.m. - 6:00 p.m.

Mon Thu

Communicating Chemistry
300

L1C
11:00 a.m. - 12:30 p.m.

Wed

Principles of quantum mechanics; atomic wavefunctions; angular momentum; spin; atomic term symbols. [3-0-1] Prerequisite: One of CHEM 123, CHEM 130, CHBE 220. and Third year standing.

Introduction to structure, composition and chemical processes occurring in Earth's atmosphere, including interactions with solar radiation, stratospheric ozone layer, photochemical smog and acid rain. [3-0-0] Prerequisite: One of CHEM 123, CHEM 130, CHEM 200, and Third year standing.

Effective argumentation and communication skills in chemistry. Only open to students in a Chemistry specialization. This course is not eligible for Credit/D/Fail grading. [1-0-3] Prerequisite: Third year standing. This course is not eligible for Credit/D/Fail grading. [1-0-3] Prerequisite: Third year standing. Effective argumentation and communication skills in chemistry. Only open to students in a Chemistry specialization. This course is not eligible for Credit/D/Fail grading. [1-0-3] Prerequisite: Third year standing.

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. [3-0-1] Prerequisite: Third year standing. Effective argumentation and communication skills in chemistry. Only open to students in a Chemistry specialization. This course is not eligible for Credit/D/Fail grading. [1-0-3] Prerequisite: Third year standing.
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<td>CHEM_V 135</td>
<td>LAB</td>
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<td>CHEM_V 315-LSC</td>
<td>CHEM_V 135</td>
<td>LC 1C</td>
<td>Chemistry Integrated Laboratory I</td>
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<td>CHEM_V 315-LBI</td>
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<td>CHEM_V 315-LB3</td>
<td>CHEM_V 135</td>
<td>LB 3</td>
<td>Chemistry Integrated Laboratory I</td>
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<td>LC 1</td>
<td>Chemistry Integrated Laboratory I</td>
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Further development of principles and techniques of modern chemistry applied by integrating experiments chosen from organic, inorganic, physical, and analytical chemistry. ([0-4-0] Prerequisite: CHIM 315. In Person Learning Tue 2:00 p.m. - 6:00 p.m.)

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CHEM_V 308-620 CHEM_V 308 620 Co-operative Work Placement I W1 Approved and supervised technical work experience in an industrial research setting for a minimum of 1.5 months. Taken during the winter term of the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Chemistry. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

CHEM_V 309-620 CHEM_V 309 620 Co-operative Work Placement II W2 Approved and supervised technical work experience in an industrial research setting for a minimum of 1.5 months. Taken during the summer following the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Chemistry. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

CHEM_V 309-620 CHEM_V 309 620 Co-operative Work Placement II W1 Approved and supervised technical work experience in an industrial research setting for a minimum of 1.5 months. Taken during the summer following the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Chemistry. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

CHEM_V 402-299 CHEM_V 402 299 Principles of Spectroscopy W2 Rotational, vibrational, electronic and magnetic resonance spectroscopy and associated techniques; group theory. [3-0-0] Prerequisite: One of MATH 102, MATH 221, MATH 223 and one of CHEM 312 PHYS 304. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

CHEM_V 402-209 CHEM_V 402 209 Diffraction Methods W2 Crystal structures, point and space groups, X-ray diffraction, neutron diffraction, electron diffraction of gases and surfaces. Credit will be granted for only one of CHEM 420 or CHEM 510. [3-0-0] Prerequisite: CHEM 206. In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.

CHEM_V 403-201 CHEM_V 403 201 Surface Chemistry and Surface Analysis W2 Application of numerical techniques to study chemical systems; molecular simulation. Prior computer programming experience is not required. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CHEM 209 and one of MATH 220, MATH 221, MATH 226, MATH 227, MATH 228. In Person Learning Mon Wed Fri 9:00 a.m. - 10:00 a.m.

CHEM_V 404-101 CHEM_V 404 101 Computational Chemistry W1 Introduction of numerical techniques to study chemical systems; molecular simulation. Prior computer programming experience is not required. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CHEM 209 or CHEM 312. In Person Learning Mon Wed Thu 11:00 a.m. - 12:00 p.m.

CHEM_V 404-101 CHEM_V 404 101 Computational Chemistry W1 Interactions of macromolecules in solution, lipid, antibody and ion-binding to macromolecules; thermodynamics of polymer solutions; excluded volume effects; phase separation; partition in two phase polymer solutions. [3-0-0] Prerequisite: One of CHEM 406, CHEM 305, PHYS 203. In Person Learning Fri 2:00 p.m. - 3:00 p.m.

CHEM_V 405-120 CHEM_V 405 120 Biophysical Chemistry W1 Structure and availability of monomers; Propagation mechanisms; synthesis of polymers with predetermined properties; measurement and interpretation of physical properties of polymers. [3-0-0] Prerequisite: One of CHEM 312, CHEM 306, CHEM 308, CHEM 220. In Person Learning Mon Wed Fri 2:00 p.m. - 3:00 p.m.

CHEM_V 406-101 CHEM_V 406 101 Polymer Chemistry W1 Introduction to variational methods; many-electron systems; application of numerical techniques to study chemical systems; molecular simulation. Prior computer programming experience is not required. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of CHEM 404, CHEM 405, PHYS 304. In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.

CHEM_V 407-233 CHEM_V 407 233 Statistical Mechanics in Chemistry W2 Application of numerical techniques to study chemical systems; molecular simulation. Prior computer programming experience is not required. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of CHEM 405, CHEM 407, PHYS 304. In Person Learning Tue Thu 1:30 p.m. - 2:30 p.m.

CHEM_V 409-199 CHEM_V 409 199 Astrochemistry W2 Biological origin of elements; interstellar chemistry; isotopes; reaction networks; protostars. Credit will be granted for only one of CHEM 611 or CHEM 612. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

CHEM_V 410-211 CHEM_V 410 211 Properties of Materials W2 Chemistry with emphasis on understanding chemical reactivity. Credit will be granted for only one of CHEM 410 or CHEM 420. [3-0-0] Prerequisite: CHEM 312, PHYS 203 and one of MATH 222, PHYS 204. In Person Learning Mon Wed Fri 11:00 a.m. - 12:30 p.m.

CHEM_V 411-202 CHEM_V 411 202 Synthesis and Chemistry of Natural Products W2 Methods and tactics for the synthesis of biologically active natural products and analogs, alkaloids, polyketides, steroids and terpenes. Credit will be granted for only one of CHEM 411 or CHEM 511. In Person Learning Mon Wed Fri 2:00 p.m. - 3:00 p.m.

CHEM_V 412-266 CHEM_V 412 266 Electronic Structure of Atoms and Molecules W2 Introduction to variational methods; many-electron systems; semi-empirical methods; perturbation theory; computational methods. [3-0-0] Prerequisite: CHEM 401, CHEM 502. In Person Learning Fri 10:00 a.m. - 11:00 a.m.

CHEM_V 413-199 CHEM_V 413 199 Biogeochemistry W1 Introduction to environmental chemistry, chemistry of pollutants, biogeochemical cycles, and global change. Credit will be granted for only one of CHEM 413 or CHEM 417. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

CHEM_V 416-212 CHEM_V 416 212 Physical and Theoretical Organic Chemistry W2 Application of numerical techniques to study chemical systems; molecular simulation. Prior computer programming experience is not required. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CHEM 312. In Person Learning Mon Wed Fri 1:30 p.m. - 2:30 p.m.

CHEM_V 417-212 CHEM_V 417 212 Nuclear Chemistry and Radiochemistry W2 Application of numerical techniques to study chemical systems; molecular simulation. Prior computer programming experience is not required. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CHEM 417. In Person Learning Tue Thu 1:30 p.m. - 2:30 p.m.

CHEM_V 418-209 CHEM_V 418 209 Organic Analytical Chemistry W2 Application of numerical techniques to study chemical systems; molecular simulation. Prior computer programming experience is not required. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CHEM 312. In Person Learning Mon Wed Fri 9:00 a.m. - 10:00 a.m.

CHEM_V 427-122 CHEM_V 427 122 Applications of Materials Chemistry W1 Contemporary materials chemistry, including design and synthesis of materials for energy, electronics, and health applications. [3-0-0] Prerequisite: CHEM 317. In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Teacher</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
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<td>Directed Studies in Chemistry</td>
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**Course Description:**

**Principles of Chemical Separation**

- Unified theory of separation science, liquid and gas chromatography, capillary electrophoresis, electrochemical and spectrosopic detection; separation methods coupled with mass spectrometry and tandem mass spectrometry; biochemical applications. Credit will be granted for only one of CHEM 434 or CHEM 534. (3-0-0) Prerequisite: CHEM 311.

**Directed Studies in Chemistry**

- In Person Learning
- Tue Thu
- 11:00 a.m. - 12:30 p.m.

**Projects in Experimental Chemistry**

- In Person Learning
- Mon Wed
- 2:00 p.m. - 6:00 p.m.

**Seminar and Thesis**

- In Person Learning
- W2
- 12:30 p.m. - 1:30 p.m.

**Directed Studies in Chemistry**

- Arranged
- W2
- 2:00 p.m. - 6:00 p.m.

**Projects in Experimental Chemistry**

- In Person Learning
- W2
- 2:00 p.m. - 6:00 p.m.

**Projects in Experimental Chemistry**

- In Person Learning
- W1
- 2:00 p.m. - 6:00 p.m.

**Directed Studies in Chemistry**

- Arranged
- W2
- 2:00 p.m. - 6:00 p.m.

**Projects in Experimental Chemistry**

- In Person Learning
- Arranged
- 12:30 p.m. - 1:30 p.m.

**Projects in Experimental Chemistry**

- In Person Learning
- Arranged
- 2:00 p.m. - 6:00 p.m.

**Projects in Experimental Chemistry**

- In Person Learning
- Arranged
- 2:00 p.m. - 6:00 p.m.

**Projects in Experimental Chemistry**

- In Person Learning
- Arranged
- 2:00 p.m. - 6:00 p.m.

**Projects in Experimental Chemistry**

- In Person Learning
- Arranged
- 2:00 p.m. - 6:00 p.m.

**Projects in Experimental Chemistry**

- In Person Learning
- Arranged
- 2:00 p.m. - 6:00 p.m.
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<th>Lab Hours</th>
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<th>Mode of Delivery</th>
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<td>Organic Synthesis: A Mechanistic Approach</td>
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<td>CHEM-V 499-610</td>
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<td>CHEM-V 501-111</td>
<td>Applications of Quantum Mechanics in Chemistry</td>
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<td>CHEM-V 502-211</td>
<td>Advanced Physical Chemistry of the Solid State</td>
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<td>Mon Wed Fri</td>
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<td>CHEM-V 503-233</td>
<td>Equilibrium Statistical Mechanics in Chemistry</td>
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<td>CHEM-V 506-101</td>
<td>Polymer Chemistry</td>
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<td>CHEM-V 509-199</td>
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<td>Crystal Structures</td>
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<td>CHEM-V 521-200</td>
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<td>Structural Methods in Inorganic Chemistry</td>
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<tr>
<td>CHEM-V 533-166</td>
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<td>Tue Thu</td>
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<tr>
<td>CHEM-V 534-266</td>
<td>Principles of Chemical Separation</td>
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<tr>
<td>CHEM-V 535-A_212</td>
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<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>CHEM-V 548-001</td>
<td>Research Conference</td>
<td>1.5</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td></td>
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<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>A_110</td>
<td>503</td>
<td>133</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td></td>
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<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>A_212</td>
<td>501</td>
<td>111</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td></td>
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<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>A_233</td>
<td>502</td>
<td>211</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td></td>
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<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>A_266</td>
<td>503</td>
<td>223</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>A_310</td>
<td>506</td>
<td>101</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<td>In Person Learning</td>
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<tr>
<td>A_333</td>
<td>507</td>
<td>133</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td></td>
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<td>Wed</td>
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<tr>
<td>A_399</td>
<td>510</td>
<td>199</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<td>In Person Learning</td>
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<tr>
<td>A_409</td>
<td>514</td>
<td>209</td>
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<tr>
<td>A_410</td>
<td>516</td>
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<td>A_433</td>
<td>517</td>
<td>133</td>
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<td>In Person Learning</td>
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<td>A_499</td>
<td>519</td>
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<td>A_509</td>
<td>521</td>
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<tr>
<td>A_529</td>
<td>521</td>
<td>209</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<td>A_533</td>
<td>523</td>
<td>101</td>
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<td>A_534</td>
<td>524</td>
<td>266</td>
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<tr>
<td>A_535</td>
<td>525</td>
<td>212</td>
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<td>A_548</td>
<td>548</td>
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<td>Subject</td>
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<td>Grade Option</td>
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<td>CHEM</td>
<td>549-01</td>
<td>M.Sc. Thesis</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<td>CHEM</td>
<td>549-101</td>
<td>M.Sc. Thesis</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>CHEM</td>
<td>549-201</td>
<td>M.Sc. Thesis</td>
<td>W2</td>
<td>In Person Learning</td>
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<td>CHEM</td>
<td>550-106</td>
<td>Organic Chemistry: Building Molecules and Understanding Reactivity</td>
<td>W1</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>CHEM</td>
<td>561-199</td>
<td>Advanced Chemical Biology</td>
<td>W1</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>CHEM</td>
<td>561-233</td>
<td>Advanced Chemical Biology</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>CHEM</td>
<td>563-212</td>
<td>Advanced Physical Organic Chemistry</td>
<td>W2</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>CHEM</td>
<td>566-201</td>
<td>Advanced Organic Synthesis</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>CHEM</td>
<td>569-199</td>
<td>Advanced Bioorganic Chemistry</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>CHEM</td>
<td>573-299</td>
<td>Application of Spectroscopy to Organic Structural Determinations</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>CHEM</td>
<td>588-A, 599-001</td>
<td>Topics in Chemistry</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>CHEM</td>
<td>588-B, 599-002</td>
<td>Topics in Chemistry</td>
<td>W2</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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<td>CHEM</td>
<td>649-01</td>
<td>Doctoral Dissertation</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Tue</td>
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<td>649-101</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
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<td>649-201</td>
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<td>W2</td>
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<td>CHIL</td>
<td>500-001</td>
<td>Research in Children’s and Young Adult Literature</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>CHIL</td>
<td>599-001</td>
<td>Thesis for Master of Arts in Children’s Literature</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>Thesis for Master of Arts in Children’s Literature</td>
<td>W2</td>
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<td>CHIL</td>
<td>599-003</td>
<td>Thesis for Master of Arts in Children’s Literature</td>
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<td>Thesis for Master of Arts in Children’s Literature</td>
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<td>In Person Learning</td>
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<td>CHIN</td>
<td>131-011</td>
<td>Basic Chinese 1 Part 1 (Non-Heritage)</td>
<td>W1</td>
<td>Online Learning</td>
<td>Mon Wed Fri</td>
<td>8:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>CHIN</td>
<td>131-012</td>
<td>Basic Chinese 1 Part 1 (Non-Heritage)</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>CHIN</td>
<td>131-013</td>
<td>Basic Chinese 1 Part 1 (Non-Heritage)</td>
<td>W1</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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</table>
Skills in listening, speaking, reading, and writing in Mandarin Chinese, an active vocabulary of about 250 Chinese words, and basic grammar. Credit will be granted for only one of CHIN 131 or CHIN 101 or CHIN 134. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisites: one of CHIN 101, CHIN 131.

This course is not eligible for Credit/D/Fail grading.
| CRN_V | 133-026  | CHIN_V | 133 | D26 | Basic Chinese I: Part 2 (Non-Heritage) | W2  | Continuation of CHIN 141. Credit will be granted for only one of CHIN 133 or CHIN 102 or CHIN 134. Recommended pre-requisites: one of CHIN 101, CHIN 131. | In Person Learning | Tue Thu | 2:00 p.m. - 3:10 p.m. |
| CRN_V | 133-021  | CHIN_V | 133 | D21 | Basic Chinese I: Part 2 (Non-Heritage) | W2  | Continuation of CHIN 141. Credit will be granted for only one of CHIN 133 or CHIN 102 or CHIN 134. Recommended pre-requisites: one of CHIN 101, CHIN 131. | In Person Learning | Wed | 2:00 p.m. - 3:00 p.m. |
| CRN_V | 133-023  | CHIN_V | 133 | D22 | Basic Chinese I: Part 2 (Non-Heritage) | W2  | Continuation of CHIN 141. Credit will be granted for only one of CHIN 133 or CHIN 102 or CHIN 134. Recommended pre-requisites: one of CHIN 101, CHIN 131. | In Person Learning | Wed | 3:00 p.m. - 4:00 p.m. |
| CRN_V | 133-023  | CHIN_V | 133 | D23 | Basic Chinese I: Part 2 (Non-Heritage) | W2  | Continuation of CHIN 141. Credit will be granted for only one of CHIN 133 or CHIN 102 or CHIN 134. Recommended pre-requisites: one of CHIN 101, CHIN 131. | In Person Learning | Wed | 4:00 p.m. - 5:00 p.m. |
| CRN_V | 133-024  | CHIN_V | 133 | D24 | Basic Chinese I: Part 2 (Non-Heritage) | W2  | Continuation of CHIN 141. Credit will be granted for only one of CHIN 133 or CHIN 102 or CHIN 134. Recommended pre-requisites: one of CHIN 101, CHIN 131. | Online Learning | Tue | 10:00 a.m. - 11:00 a.m. |
| CRN_V | 133-025  | CHIN_V | 133 | D25 | Basic Chinese I: Part 2 (Non-Heritage) | W2  | Continuation of CHIN 141. Credit will be granted for only one of CHIN 133 or CHIN 102 or CHIN 134. Recommended pre-requisites: one of CHIN 101, CHIN 131. | Online Learning | Tue | 11:00 a.m. - 12:30 p.m. |
| CRN_V | 133-026  | CHIN_V | 133 | D26 | Basic Chinese I: Part 2 (Non-Heritage) | W2  | Continuation of CHIN 141. Credit will be granted for only one of CHIN 133 or CHIN 102 or CHIN 134. Recommended pre-requisites: one of CHIN 101, CHIN 131. | Online Learning | Wed | 1:00 p.m. - 2:00 p.m. |
| CRN_V | 133-099  | CHIN_V | 133 | D90 | Basic Chinese I: Part 2 (Non-Heritage) | W2  | This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| CRN_V | 141-011  | CHIN_V | 141 | D11 | Basic Chinese I: Part 1 (Heritage) | W1  | This course is not eligible for Credit/D/Fail grading. | In Person Learning | Mon Wed | 2:00 p.m. - 3:30 p.m. |
| CRN_V | 141-012  | CHIN_V | 141 | D12 | Basic Chinese I: Part 1 (Heritage) | W1  | This course is not eligible for Credit/D/Fail grading. | In Person Learning | Tue Thu | 2:00 p.m. - 3:30 p.m. |
| CRN_V | 141-013  | CHIN_V | 141 | D13 | Basic Chinese I: Part 1 (Heritage) | W1  | This course is not eligible for Credit/D/Fail grading. | Online Learning | Mon Wed Fri | 9:00 a.m. - 10:00 a.m. |
| CRN_V | 141-011  | CHIN_V | 141 | D11 | Basic Chinese I: Part 1 (Heritage) | W1  | This course is not eligible for Credit/D/Fail grading. | In Person Learning | Tue | 4:00 p.m. - 5:00 p.m. |
| CRN_V | 141-012  | CHIN_V | 141 | D12 | Basic Chinese I: Part 1 (Heritage) | W1  | This course is not eligible for Credit/D/Fail grading. | Online Learning | Tue | 5:00 p.m. - 6:00 p.m. |
| CRN_V | 141-013  | CHIN_V | 141 | D13 | Basic Chinese I: Part 1 (Heritage) | W1  | This course is not eligible for Credit/D/Fail grading. | Online Learning | Tue | 6:00 p.m. - 7:00 p.m. |
| CRN_V | 141-008  | CHIN_V | 141 | DN8 | Basic Chinese I: Part 1 (Heritage) | W1  | This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| CRN_V | 143-021  | CHIN_V | 143 | D21 | Basic Chinese I: Part 2 (Heritage) | W2  | Continuation of CHIN 141. Credit will be granted for only one of CHIN 140 or CHIN 102 or CHIN 144. Recommended pre-requisites: one of CHIN 111, CHIN 143. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Mon Wed | 2:00 p.m. - 3:30 p.m. |
| CRN_V | 143-022  | CHIN_V | 143 | D22 | Basic Chinese I: Part 2 (Heritage) | W2  | Continuation of CHIN 141. Credit will be granted for only one of CHIN 140 or CHIN 102 or CHIN 144. Recommended pre-requisites: one of CHIN 111, CHIN 143. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Tue Thu | 2:00 p.m. - 3:30 p.m. |
| CRN_V | 143-021  | CHIN_V | 143 | D21 | Basic Chinese I: Part 2 (Heritage) | W2  | Continuation of CHIN 141. Credit will be granted for only one of CHIN 140 or CHIN 102 or CHIN 144. Recommended pre-requisites: one of CHIN 111, CHIN 143. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Tue | 4:00 p.m. - 5:00 p.m. |
| CRN_V | 143-022  | CHIN_V | 143 | D22 | Basic Chinese I: Part 2 (Heritage) | W2  | Continuation of CHIN 141. Credit will be granted for only one of CHIN 140 or CHIN 102 or CHIN 144. Recommended pre-requisites: one of CHIN 111, CHIN 143. This course is not eligible for Credit/D/Fail grading. | Online Learning | Tue | 5:00 p.m. - 6:00 p.m. |
| CRN_V | 143-099  | CHIN_V | 143 | D90 | Basic Chinese I: Part 2 (Heritage) | W2  | This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| CRN_V | 231-011  | CHIN_V | 231 | D11 | Basic Chinese II: Part 1 (Non-Heritage) | W1  | This course is not eligible for Credit/D/Fail grading. | In Person Learning | Mon Wed Fri | 11:00 a.m. - 12:30 p.m. |
| CRN_V | 231-012  | CHIN_V | 231 | D12 | Basic Chinese II: Part 1 (Non-Heritage) | W1  | This course is not eligible for Credit/D/Fail grading. | In Person Learning | Tue Thu | 2:00 p.m. - 3:30 p.m. |
| CRN_V | 231-013  | CHIN_V | 231 | D13 | Basic Chinese II: Part 1 (Non-Heritage) | W1  | This course is not eligible for Credit/D/Fail grading. | Online Learning | Mon Wed Fri | 9:00 a.m. - 10:00 a.m. |
In Person Learning
Thu 2:00 p.m. - 3:00 p.m.
D12 W1
In Person Learning
231

Basic Chinese II: Part 1 (Non-Heritage)
In Person Learning
Tue

Basic Chinese II: Part 2 (Non-Heritage)
In Person Learning
D23 W1
2:00 p.m. - 3:30 p.m.

Mon Wed

Basic Chinese II: Part 2 (Non-Heritage)
In Person Learning
W1

W2

Basic Chinese II: Part 2 (Non-Heritage)
Arranged

W2

Basic Chinese II: Part 2 (Heritage)
Arranged

D98 023
2:00 p.m. - 3:30 p.m.
W1

W2

Basic Chinese II: Part 2 (Heritage)
In Person Learning
022

Thu

Basic Chinese II: Part 1 (Heritage)
D99

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

Tue Thu

Basic Chinese II: Part 1 (Heritage)
Online Learning
231

In Person Learning

D14

Basic Chinese II: Part 1 (Non-Heritage)
W1

W1

Basic Chinese II: Part 1 (Heritage)
241

Arranged

D24

Basic Chinese II: Part 2 (Heritage)

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 231 or CHIN 105 or CHIN 234. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisites: one of CHIN 105, CHIN 106, CHIN 115, CHIN 116, CHIN 143, CHIN 144. 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 231 or CHIN 105 or CHIN 234. Recommended pre-requisites: one of CHIN 105, CHIN 106, CHIN 115, CHIN 116, CHIN 143, CHIN 144. 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 231 or CHIN 105 or CHIN 234. Recommended pre-requisites: one of CHIN 105, CHIN 106, CHIN 115, CHIN 116, CHIN 143, CHIN 144. 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 231 or CHIN 105 or CHIN 234. Recommended pre-requisites: one of CHIN 105, CHIN 106, CHIN 115, CHIN 116, CHIN 143, CHIN 144. 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 231 or CHIN 105 or CHIN 234. Recommended pre-requisites: one of CHIN 105, CHIN 106, CHIN 115, CHIN 116, CHIN 143, CHIN 144. 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 231 or CHIN 105 or CHIN 234. Recommended pre-requisites: one of CHIN 105, CHIN 106, CHIN 115, CHIN 116, CHIN 143, CHIN 144. 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 231 or CHIN 105 or CHIN 234. Recommended pre-requisites: one of CHIN 105, CHIN 106, CHIN 115, CHIN 116, CHIN 143, CHIN 144. 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 231 or CHIN 105 or CHIN 234. Recommended pre-requisites: one of CHIN 105, CHIN 106, CHIN 115, CHIN 116, CHIN 143, CHIN 144. 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 231 or CHIN 105 or CHIN 234. Recommended pre-requisites: one of CHIN 105, CHIN 106, CHIN 115, CHIN 116, CHIN 143, CHIN 144. This course is not eligible for Credit/D/Fail grading.
<table>
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<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
<th>Description</th>
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<tr>
<td>CHIN_V 201-011</td>
<td>D11</td>
<td>12:30 p.m. - 2:00 p.m</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>Continuation of CHIN 101. Credit will be granted for only one of CHIN 201 or CHIN 211 or CHIN 260. Recommended pre-requisites: one of CHIN 107, CHIN 108, CHIN 233, CHIN 246. This course is not eligible for Credit/D/Fail grading.</td>
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<td>CHIN_V 201-012</td>
<td>D12</td>
<td>1:00 p.m. - 3:00 p.m</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>Continuation of CHIN 101. Credit will be granted for only one of CHIN 201 or CHIN 211 or CHIN 260. Recommended pre-requisites: one of CHIN 107, CHIN 108, CHIN 233, CHIN 246. This course is not eligible for Credit/D/Fail grading.</td>
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<td>CHIN_V 201-013</td>
<td>D13</td>
<td>2:00 p.m. - 4:00 p.m</td>
<td>In Person Learning</td>
<td>Thu Fri</td>
<td>Intermediate Chinese I: Part 2 (Non-Heritage)</td>
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<tr>
<td>CHIN_V 201-014</td>
<td>D14</td>
<td>3:00 p.m. - 5:00 p.m</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>Intermediate Chinese I: Part 2 (Heritage)</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 201 or CHIN 211 or CHIN 260. Recommended pre-requisites: one of CHIN 107, CHIN 108, CHIN 233, CHIN 246. This course is not eligible for Credit/D/Fail grading.

Recommended pre-requisites: one of CHIN 107, CHIN 108, CHIN 233, CHIN 246. This course is not eligible for Credit/D/Fail grading.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credit Hours</th>
<th>Class Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 345-002</td>
<td>Advanced Chinese Speaking and Writing II (Non-Heritage)</td>
<td>2.00</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 345-003</td>
<td>Intermediate Chinese II: Part 2 (Heritage)</td>
<td>2.00</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 345-004</td>
<td>Advanced Chinese Reading and Writing II (Heritage)</td>
<td>3.00</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>Arranged</td>
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<tr>
<td>CHIN 345-011</td>
<td>Intermediate Chinese II: Part 2 (Heritage)</td>
<td>3.00</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CHIN 345-012</td>
<td>Intermediate Chinese II: Part 2 (Heritage)</td>
<td>3.00</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>Online Learning</td>
</tr>
<tr>
<td>CHIN 345-021</td>
<td>Advanced Chinese Reading and Writing (Non-Heritage)</td>
<td>3.00</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>CHIN 347-021</td>
<td>Intermediate Chinese II: Part 2 (Heritage)</td>
<td>3.00</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Online Learning</td>
</tr>
<tr>
<td>CHIN 347-022</td>
<td>Intermediate Chinese II: Part 2 (Heritage)</td>
<td>3.00</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>Online Learning</td>
</tr>
<tr>
<td>CHIN 347-024</td>
<td>Intermediate Chinese II: Part 2 (Heritage)</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
</tr>
<tr>
<td>CHIN 347-025</td>
<td>Advanced Chinese Reading and Writing II (Pre- Heritage)</td>
<td>3.00</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-030</td>
<td>Business Chinese</td>
<td>3.00</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>Online Learning</td>
</tr>
<tr>
<td>CHIN 347-031</td>
<td>Advanced Chinese Reading and Writing II</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-032</td>
<td>Business Chinese II</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-033</td>
<td>Advanced Chinese Reading and Writing I</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
</tr>
<tr>
<td>CHIN 347-034</td>
<td>Business Chinese I</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-035</td>
<td>Advanced Chinese Reading and Writing</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-036</td>
<td>Business Chinese II</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-037</td>
<td>Advanced Chinese Reading and Writing</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-038</td>
<td>Business Chinese I</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-039</td>
<td>Advanced Chinese Reading and Writing</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-040</td>
<td>Business Chinese</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-041</td>
<td>Advanced Chinese Reading and Writing</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-042</td>
<td>Business Chinese II</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
</tr>
<tr>
<td>CHIN 347-043</td>
<td>Advanced Chinese Reading and Writing</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-044</td>
<td>Business Chinese I</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-045</td>
<td>Advanced Chinese Reading and Writing</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-046</td>
<td>Business Chinese II</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-047</td>
<td>Advanced Chinese Reading and Writing</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-048</td>
<td>Business Chinese I</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-049</td>
<td>Advanced Chinese Reading and Writing</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-050</td>
<td>Business Chinese II</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>CHIN 347-051</td>
<td>Advanced Chinese Reading and Writing</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
</tr>
<tr>
<td>CHIN 347-052</td>
<td>Business Chinese I</td>
<td>3.00</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
</tr>
</tbody>
</table>
Readings in classical poetry from the pre-Qin to the end of the Han Dynasty, at an advanced level. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/442/444/445/447/448/463/464. Credit will be granted for only one of CHIN 461 or CHIN 464.

Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 462, CHIN 463, CHIN 467, CHIN 468. This course is not eligible for Credit/D/Fail grading.

Online Learning  Mon Wed

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

Readings in classical poetry from the Six Dynasties to early Tang, at an advanced level. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/442/444/445/447/448/463/464. Credit will be granted for only one of CHIN 461 or CHIN 464.

Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 462, CHIN 463, CHIN 467, CHIN 468. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue Thu

Online Learning  Mon Thu

6:30 p.m. - 8:00 p.m.

Themes in Chinese literature from the 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 468, or placement approval. This course is not eligible for Credit/D/Fail grading.

Online Learning  Tue Thu

3:30 p.m. - 5:00 p.m.

Chinese martial arts fiction as a form of cultural expression first created in classical Chinese fiction and then evolved into contemporary popular literature. Recommended pre-requisites: one of CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 468, or placement approval. This course is not eligible for Credit/D/Fail grading.

Online Learning  Mon Wed

3:30 p.m. - 5:00 p.m.

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 441/442/444/445/447/448/463/464. Credit will be granted for only one of CHIN 461 or CHIN 464.

Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 462, CHIN 463, CHIN 467, CHIN 468. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue Thu

Online Learning  Mon Wed

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

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

Readings in classical poetry from the pre-Qin to the end of the Han Dynasty, at an advanced level. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/442/444/445/447/448/463/464. Credit will be granted for only one of CHIN 461 or CHIN 464.

Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 462, CHIN 463, CHIN 467, CHIN 468. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue Thu

Online Learning  Mon Wed

11:00 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 of the following CHIN 400-level language courses: CHIN 441/442/444/445/447/448/463/464. Credit will be granted for only one of CHIN 461 or CHIN 464.

Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 462, CHIN 463, CHIN 467, CHIN 468. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue Thu

Online Learning  Mon Wed

11:00 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 of the following CHIN 400-level language courses: CHIN 441/442/444/445/447/448/463/464. Credit will be granted for only one of CHIN 461 or CHIN 464.

Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 462, CHIN 463, CHIN 467, CHIN 468. This course is not eligible for Credit/D/Fail grading.

Online Learning  Wed

1:00 p.m. - 3:00 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 468, or placement approval. This course is not eligible for Credit/D/Fail grading.

Online Learning  Tue Thu

3:30 p.m. - 5:00 p.m.

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 441/442/444/445/447/448/463/464. Credit will be granted for only one of CHIN 461 or CHIN 464.

Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 462, CHIN 463, CHIN 467, CHIN 468. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue Thu

Online Learning  Mon Wed

2:00 p.m. - 4:30 p.m.

Selected readings from the May Fourth Era to present. Not to be taken concurrently with any of the following CHIN 400-level language courses: CHIN 441/442/444/445/447/448/463/464. Credit will be granted for only one of CHIN 461 or CHIN 464. Recommended pre-requisites: one of CHIN 313, CHIN 314, CHIN 317, CHIN 318, CHIN 323, CHIN 462, CHIN 463, CHIN 467, CHIN 468, CHIN 484. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue Thu

Online Learning  Wed

5:00 p.m. - 7:00 p.m.

Modern Chinese literature (Heritage) I

Modern Chinese literature (Heritage) II

Modern Chinese literature (Heritage) III

Contemporary Chinese fiction from the 21st century adapted from literary works. Recommended pre-requisites: one of CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448, or placement approval.

In Person Learning  Tue Thu

Online Learning  Mon Wed

12:10 p.m. - 2:00 p.m.

Contemporary Chinese films from the 21st century adapted from literary works. Recommended pre-requisites: one of CHIN 437, CHIN 443, CHIN 444, CHIN 447, CHIN 448, or placement approval.

In Person Learning  Tue Thu

Online Learning  Mon Wed

12:10 p.m. - 2:00 p.m.
<table>
<thead>
<tr>
<th>Code</th>
<th>CRN</th>
<th>Days</th>
<th>Time</th>
<th>Credit</th>
<th>Description</th>
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<tr>
<td>CHIN_V 491-011</td>
<td>W1</td>
<td>Mon-Wed</td>
<td>2:00 p.m. - 5:30 p.m.</td>
<td>100</td>
<td>Classical Chinese I (Heritage): Development, performance, intercultural interactions, and multimedia adaptations of modern Chinese drama. Recommended pre-requisites: one of CHIN 437, CHIN 443, CHIN 444, CHIN 444, CHIN 447, CHIN 448, or placement approval.</td>
</tr>
<tr>
<td>CHIN_V 485-022</td>
<td>W2</td>
<td>022</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>485</td>
<td>Contemporary Chinese II (Heritage): From the 21st century adapted from literary works. Recommended pre-requisites: one of CHIN 437, CHIN 443, CHIN 444, CHIN 444, CHIN 447, CHIN 448, or placement approval.</td>
</tr>
<tr>
<td>CINE_V 100-001</td>
<td>W1</td>
<td>001</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>100</td>
<td>Introduction to Cinema Studies: Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.</td>
</tr>
<tr>
<td>CINE_V 100-003</td>
<td>W2</td>
<td>003</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>100</td>
<td>Introduction to Cinema Studies: Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.</td>
</tr>
<tr>
<td>CINE_V 100-004</td>
<td>W1</td>
<td>004</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>100</td>
<td>Introduction to Cinema Studies: Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.</td>
</tr>
<tr>
<td>CINE_V 100-011</td>
<td>W1</td>
<td>011</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>100</td>
<td>Introduction to Cinema Studies: Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.</td>
</tr>
<tr>
<td>CINE_V 100-012</td>
<td>W1</td>
<td>012</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>100</td>
<td>Introduction to Cinema Studies: Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.</td>
</tr>
<tr>
<td>CINE_V 100-013</td>
<td>W1</td>
<td>013</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>100</td>
<td>Introduction to Cinema Studies: Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.</td>
</tr>
<tr>
<td>CINE_V 100-031</td>
<td>W1</td>
<td>031</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>100</td>
<td>Introduction to Cinema Studies: Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.</td>
</tr>
<tr>
<td>CINE_V 100-032</td>
<td>W1</td>
<td>032</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>100</td>
<td>Introduction to Cinema Studies: Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.</td>
</tr>
<tr>
<td>CINE_V 100-033</td>
<td>W1</td>
<td>033</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>100</td>
<td>Introduction to Cinema Studies: Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.</td>
</tr>
<tr>
<td>CINE_V 100-041</td>
<td>W1</td>
<td>041</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>100</td>
<td>Introduction to Cinema Studies: Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.</td>
</tr>
<tr>
<td>CINE_V 100-042</td>
<td>W1</td>
<td>042</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>100</td>
<td>Introduction to Cinema Studies: Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.</td>
</tr>
<tr>
<td>CINE_V 100-043</td>
<td>W1</td>
<td>043</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>100</td>
<td>Introduction to Cinema Studies: Basic aesthetic, economic, sociological, and technological aspects of film. Credit will be granted for only one of FIST 100 or CINE 100.</td>
</tr>
<tr>
<td>CINE_V 300-002</td>
<td>W1</td>
<td>002</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>100</td>
<td>Introduction to Canadian Cinema: History and aesthetics of Canadian cinema. Credit will be granted for only one of FIST 300 or CINE 300.</td>
</tr>
<tr>
<td>CINE_V 210-001</td>
<td>W2</td>
<td>001</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>210</td>
<td>Early Cinema: Aesthetics, economics, history, and technological characteristics of international early film. Credit will be granted for only one of FIST 210 or CINE 210.</td>
</tr>
<tr>
<td>CINE_V 220-002</td>
<td>W2</td>
<td>002</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>220</td>
<td>Hollywood Cinema 1930-1960: 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.</td>
</tr>
<tr>
<td>CINE_V 220-021</td>
<td>W2</td>
<td>021</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>220</td>
<td>Hollywood Cinema 1930-1960: 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.</td>
</tr>
</tbody>
</table>
CINE_V 220-023  CINE_V 230-023 Hollywood Cinema 1930-1960  W2  Analysis of the aesthetic, economic, historic and technological characteristics of the Classical Hollywood period. Credit will be granted for only one of FIST 220 or CINE 230.
  In Person Learning  Fri  10:00 a.m. - 11:00 a.m.

CINE_V 240-001  CINE_V 240 001 Media Industries  W1  Overview of today’s film and media industries, and of the concepts governing their practices. Credit will be granted for only one of FIST 240 or CINE 240.
  In Person Learning  Tue Thu  11:00 a.m. - 12:30 p.m.

CINE_V 240-002  CINE_V 240 002 Media Industries  W2  Overview of today’s film and media industries, and of the concepts governing their practices. Credit will be granted for only one of FIST 240 or CINE 240.
  In Person Learning  Tue Thu  10:00 a.m. - 11:30 a.m.

CINE_V 300-001  CINE_V 300 001 Cult Cinema  W1  Overview of world cult cinema. Credit will be granted for only one of FIST 300 or CINE 300.
  In Person Learning  Fri  12:00 p.m. - 1:00 p.m.

CINE_V 331-002  CINE_V 331 002 Studies in Film Theory  W1  A seminar introducing the many theoretical approaches to film: formalist, historical, Marxist, psychoanalytic, semiotic, and structuralist. Credit will be granted for only one of FIST 331 or CINE 331.
  In Person Learning  Thu  11:00 a.m. - 12:30 p.m.

CINE_V 332-001  CINE_V 332 001 Studies in Genre or Period  W2  A seminar examining one or more genres or periods, such as the Western, Film Noir, Science-Fiction, Films of the 1980's. Also includes study of national cinemas. Credit will be granted for only one of FIST 332 or CINE 332.
  In Person Learning  Fri  10:00 a.m. - 1:00 p.m.

CINE_V 334-001  CINE_V 334 001 Seminar in Documentary  W1  An analysis of the representational strategies and ethics of the form. Credit will be granted for only one of FIST 334 or CINE 334.
  In Person Learning  Wed  6:00 p.m. - 8:00 p.m.

CINE_V 336-001  CINE_V 336 001 Seminar in European Cinema  W2  Topics may include a study of a European national cinema. Credit will be granted for only one of FIST 336 or CINE 336.
  In Person Learning  Wed  1:00 p.m. - 2:00 p.m.

CINE_V 338-001  CINE_V 338 001 Asian and Australian Cinema  W2  Topics may include an analysis of national cinema, such as that of China, India, or Australia. Credit will be granted for only one of FIST 338 or CINE 338.
  In Person Learning  Mon  10:00 a.m. - 12:30 p.m.

CINE_V 340-001  CINE_V 340 001 Media Audiences  W1  Overview of approaches for studying audiences and receptions of film and contemporary media. Credit will be granted for only one of FIST 340 or CINE 340.
  In Person Learning  Mon  2:00 p.m. - 3:00 p.m.

CINE_V 430-001  CINE_V 430 001 Studies in Animation  W1  A seminar examining the work of one or more directors, such as John Ford, Francois Truffaut, Denez Arnaud, Margueritte Van Trots, or of a screenwriter over many films. Credit will be granted for only one of FIST 430 or CINE 430.
  In Person Learning  Arranged  Arranged

CINE_V 432-A_001  CINE_V 432  A, _A01 Seminar in Motion Picture Forms  W2  Animation, experimental, and/or multimedia.
  In Person Learning  Tue  10:00 a.m. - 12:30 p.m.

CINE_V 438-B_001  CINE_V 438  B, _B01 Studies in Film  W2  A seminar devoted to a topic of current interest in film. Topics will change from year to year. May be repeated for credit when topic differs. Credit will be granted for only one of FIST 438 or CINE 438.
  In Person Learning  Wed  11:00 a.m. - 1:00 p.m.

CINE_V 438-001  CINE_V 438 001 Seminar in American Cinema Since 1960  W2  Topics may include an analysis of a specific period. Credit will be granted for only one of FIST 436 or CINE 436.
  In Person Learning  Mon  2:00 p.m. - 3:00 p.m.

CINE_V 438-002  CINE_V 438 002 Seminar in Canadian Cinema  W2  Topics may include an analysis of the Canadian Governmental agencies supporting Film Production. Credit will be granted for only one of FIST 438 or CINE 438.
  In Person Learning  Arranged  Arranged

CINE_V 445-001  CINE_V 445 001 Majors and Honours Seminar  W1  Credit will be granted for only one of FIST 445 or CINE 445.
  In Person Learning  Wed  2:00 p.m. - 3:00 p.m.

CINE_V 449-001  CINE_V 449 001 Honours Essay  W1-2  A course allowing honours students to work with a faculty member on a major research paper. Credit will be granted for only one of FIST 449 or CINE 449.
  In Person Learning  Arranged  Arranged

CIVL_V 201-101  CIVL_V 201 101 Introduction to Civil Engineering  W1  The design process, graphical visualization and computational tools, civil engineering disciplines, decision-making, teamwork, conceptual design project reflecting community, economic, environmental, sustainability and technical considerations. This course is not eligible for Credit/D/Fail grading. [5-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 120, ENGL 121, WRDS 150. Corequisite: CIVL 201. Equivalency: APSC 201
  Hybrid Learning  Thu  12:30 p.m. - 2:00 p.m.

CIVL_V 203-101  CIVL_V 203 101 Technical Communication in Civil Engineering  W1  Written and oral communication in civil engineering. Business correspondence, business meetings, poster presentations, oral presentations and technical reports. Restricted to students in second year of the Civil Engineering program. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 120, ENGL 121, WRDS 150. Corequisite: CIVL 203. Equivalency: APSC 203
  In Person Learning  Mon Wed Fri  12:00 p.m. - 1:00 p.m.

CIVL_V 203-102  CIVL_V 203 102 Technical Communication in Civil Engineering  W1  Written and oral communication in civil engineering. Business correspondence, business meetings, poster presentations, oral presentations and technical reports. Restricted to students in second year of the Civil Engineering program. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 120, ENGL 121, WRDS 150. Corequisite: CIVL 203. Equivalency: APSC 203
  In Person Learning  Mon Wed Fri  12:00 p.m. - 1:00 p.m.

CIVL_V 203-103  CIVL_V 203 103 Technical Communication in Civil Engineering  W1  Written and oral communication in civil engineering. Business correspondence, business meetings, poster presentations, oral presentations and technical reports. Restricted to students in second year of the Civil Engineering program. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 120, ENGL 121, WRDS 150. Corequisite: CIVL 203. Equivalency: APSC 203
  In Person Learning  Mon Wed Fri  2:00 p.m. - 3:00 p.m.

CIVL_V 203-104  CIVL_V 203 104 Technical Communication in Civil Engineering  W1  Written and oral communication in civil engineering. Business correspondence, business meetings, poster presentations, oral presentations and technical reports. Restricted to students in second year of the Civil Engineering program. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of APSC 176, ENGL 110, ENGL 111, ENGL 120, ENGL 121, WRDS 150. Corequisite: CIVL 203. Equivalency: APSC 203
  In Person Learning  Mon Wed Fri  2:00 p.m. - 3:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CIVL 230-101</td>
<td>Soil Mechanics I</td>
<td>3-0-2</td>
<td>Mon Wed Fri</td>
<td>In Person Learning</td>
<td>11:00 a.m. - 1:00 p.m.</td>
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<tr>
<td>CIVL 250-101</td>
<td>Fundamentals of Environmental Engineering</td>
<td>3-0-0</td>
<td>Tue Thu</td>
<td>In Person Learning</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>CIVL 230-120</td>
<td>Fluid Mechanics I</td>
<td>3-0-0</td>
<td>Tue Thu</td>
<td>In Person Learning</td>
<td>3:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>CIVL 230-130</td>
<td>Structural Mechanics</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 4:30 p.m.</td>
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<tr>
<td>CIVL 230-140</td>
<td>Construction Engineering and Management</td>
<td>3-0-2</td>
<td>Mon Wed Fri</td>
<td>In Person Learning</td>
<td>3:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>CIVL 230-150</td>
<td>Engineering and Sustainable Development</td>
<td>3-0-2</td>
<td>Online Learning</td>
<td>Arranged</td>
<td>11:00 a.m. - 1:00 p.m.</td>
</tr>
</tbody>
</table>

**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 105.
- 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. [3-2-2] Prerequisite: One of CIVL 230, MECH 260, WOOD 276. or third-year standing in ENVE.
- Stress and strain, Hooke's law, axially loaded members, torsion, shear forces and bending moments in beams, bending and shear stresses in beams, composite members, introduction to inelastic and statically indeterminate problems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of PHYS 170, MATH 101.
- Deflection of beams and structural systems: analysis of determinate structures; combined axial load and bending; beams, columns, bending (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 MATH 152, CIVL 203, CIVL 230.
- Implications of a finite biosphere and the complexities inherent in environmental decision-making. [3-0-2]
CIVL 301-101 CIVL 301
Modeling and Decision Making in Civil Engineering

3:00 p.m. - 5:00 p.m.
In Person Learning
Micro Web Site

CIVL 301-T1A CIVL 301
Modeling and Decision Making in Civil Engineering

In Person Learning
Thu
2:30 p.m. - 3:30 p.m.

CIVL 302-201 CIVL 201
Civil Engineering Impacts

W2
The social and biological context of infrastructure and the impact of civil engineering on people, the economy, and the environment. Specific topics vary from year to year: (3-0-0) Prerequisite: CIVL 201.
In Person Learning
Arranged

CIVL 302-201 CIVL 201
Civil Engineering Impacts

W2
The social and biological context of infrastructure and the impact of civil engineering on people, the economy, and the environment. Specific topics vary from year to year: (3-0-0) Prerequisite: CIVL 201.
In Person Learning
Arranged

CIVL 302-204 CIVL 204
Civil Engineering Impacts

W2
Computational and numerical solutions to civil engineering problems; application to civil engineering design project that reflects community, economic, environmental and technical considerations. This course is not eligible for Credit/D/Fail grading. (3-2*-1) Prerequisite: All of CIVL 201, 203, 215, 231, MATH 256.
In Person Learning
Micro Web
Fri
8:00 a.m. - 9:00 a.m.

CIVL 302-101 CIVL 301
Computational Tools in Civil Engineering

W1
Computational and numerical solutions to civil engineering problems; application to civil engineering design project that reflects community, economic, environmental and technical considerations. This course is not eligible for Credit/D/Fail grading. (3-2*-1) Prerequisite: All of CIVL 201, 203, 215, 231, MATH 256.
In Person Learning
Micro Web
Fri
8:00 a.m. - 9:00 a.m.

CIVL 303-201 CIVL 201
Introduction to Environmental Engineering Applications

W2
Environmental legislation, risk assessment, urban water, mass balance; water and wastewater treatment; environmental impact assessment. This course is not eligible for Credit/D/Fail grading. (3-2*-1) Prerequisite: CIVL 201.
In Person Learning
Micro Web
Fri
8:00 a.m. - 10:30 a.m.

CIVL 311-101 CIVL 311
Soil Mechanics II

W1
One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL 210]
In Person Learning
Micro Web
Fri
3:00 p.m. - 5:00 p.m.

CIVL 311-11A CIVL 311
Soil Mechanics II

W1
One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL 210]
In Person Learning
Micro (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 311-11B CIVL 311
Soil Mechanics II

W1
One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL 210]
In Person Learning
Micro (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 311-11C CIVL 311
Soil Mechanics II

W1
One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL 210]
In Person Learning
Micro (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 311-11D CIVL 311
Soil Mechanics II

W1
One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL 210]
In Person Learning
Micro (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 311-11E CIVL 311
Soil Mechanics II

W1
One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL 210]
In Person Learning
Micro (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 311-11F CIVL 311
Soil Mechanics II

W1
One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL 210]
In Person Learning
Micro (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 311-11G CIVL 311
Soil Mechanics II

W1
One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL 210]
In Person Learning
Micro (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 311-11H CIVL 311
Soil Mechanics II

W1
One-dimensional compression and stress-strain response of soils with application to estimation of the settlements and capacities of foundations and of retaining walls. This course is not eligible for Credit/D/Fail grading. [3-2*-1] Prerequisite: [CIVL 210]
In Person Learning
Micro (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 315-101 CIVL 315
Road Mechanics II

W1
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 CIVL 201, 203 and all of CIVL 215, MATH 256.
In Person Learning
Micro Web
Fri
1:00 p.m. - 2:00 p.m.

CIVL 315-11A CIVL 315
Road Mechanics II

W1
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 CIVL 201, 203 and all of CIVL 215, MATH 256.
In Person Learning
Micro (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 315-11B CIVL 315
Road Mechanics II

W1
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 CIVL 201, 203 and all of CIVL 215, MATH 256.
In Person Learning
Micro (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 315-11C CIVL 315
Road Mechanics II

W1
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 CIVL 201, 203 and all of CIVL 215, MATH 256.
In Person Learning
Micro (Alternate weeks)
4:00 p.m. - 6:00 p.m.
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.

In Person Learning
Mon (Alternate weeks)
4:00 p.m. - 6:00 p.m.

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.

In Person Learning
Thu (Alternate weeks)
2:00 p.m. - 4:00 p.m.

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; culvert and bridge hydraulics. 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
Mon (Alternate weeks)
2:00 p.m. - 4:00 p.m.

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; culvert and bridge hydraulics. 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

Credit/D/Fail grading. [3-2*-1] Prerequisite: CIVL 215 and one of APSC 201, CIVL 203, ENVE 201.

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; culvert and bridge hydraulics. This course is not eligible for Credit/D/Fail grading.

CIVL 215-L2O CIVL 316 L2O Hydrology and Open Channel Flow W2
In Person Learning Thu (Alternate weeks)
4:00 p.m. - 6:00 p.m.

CIVL 215-L2E CIVL 316 L2E Hydrology and Open Channel Flow W2
In Person Learning Tue (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 215-L2F CIVL 316 L2F Hydrology and Open Channel Flow W2
In Person Learning Tue (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 215-L2G CIVL 316 L2G Hydrology and Open Channel Flow W2
In Person Learning Thu (Alternate weeks)
4:00 p.m. - 6:00 p.m.

CIVL 215-L2H CIVL 316 L2H Hydrology and Open Channel Flow W2
In Person Learning Thu (Alternate weeks)
4:00 p.m. - 6:00 p.m.

CIVL 215-L2I CIVL 316 L2I Hydrology and Open Channel Flow W2
In Person Learning Wed (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 215-L2J CIVL 316 L2J Hydrology and Open Channel Flow W2
In Person Learning Wed (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 215-L2K CIVL 316 L2K Hydrology and Open Channel Flow W2
In Person Learning Wed (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 215-L2L CIVL 316 L2L Hydrology and Open Channel Flow W2
In Person Learning Wed (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 215-L2M CIVL 316 L2M Hydrology and Open Channel Flow W2
In Person Learning Thu (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 215-L2N CIVL 316 L2N Hydrology and Open Channel Flow W2
In Person Learning Thu (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 215-L2O CIVL 316 L2O Hydrology and Open Channel Flow W2
In Person Learning Thu (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 215-L2P CIVL 316 L2P Hydrology and Open Channel Flow W2
In Person Learning Thu (Alternate weeks)
2:00 p.m. - 4:00 p.m.

CIVL 215-T2A CIVL 316 T2A Hydrology and Open Channel Flow W2
In Person Learning Thu 1:00 p.m. - 2:00 p.m.

Civil Engineering Materials

Credit/D/Fail grading. [3-0-2] Prerequisite: CIVL 231, APSC 278, APSC 279

Introduction to steel and timber structures: design objectives, design loads and load combinations, structural safety, material properties, design of tension and compression members, beams, columns, and connections. This course is not eligible for Credit/D/Fail grading.

CIVL 220-101 CIVL 320 101 Civil Engineering Materials W1
In Person Learning Thu 9:30 a.m. - 11:00 a.m.

CIVL 231-201 CIVL 331 201 Steel and Timber Design W2
In Person Learning Micro Wed Fri 8:00 a.m. - 9:00 a.m.

CIVL 231-T2A CIVL 331 T2A Steel and Timber Design W1
In Person Learning Fri 8:00 a.m. - 11:00 a.m.

CIVL 232-101 CIVL 332 101 Structural Analysis W1
In Person Learning Thu 10:00 a.m. - 3:30 p.m.

CIVL 232-T1A CIVL 332 T1A Structural Analysis W1
In Person Learning Thu 12:10 p.m. - 2:30 p.m.

The structure and properties of common civil engineering materials: aggregates, Portland cement, concrete, wood, steel, and other construction materials. The emphasis is on the relationship between the structure of materials and their mechanical and durability properties. This course is not eligible for Credit/D/Fail grading.

CIVL 233-201 CIVL 333 201 Steel and Timber Design W2
In Person Learning Wed Fri 8:00 a.m. - 9:00 a.m.

CIVL 234-201 CIVL 334 201 Structural Analysis W1
In Person Learning Thu 10:00 a.m. - 3:30 p.m.
In Person Learning

**Transportation Engineering I**

- W2
- The analysis and design of transportation facilities: vehicle movement and vehicle/pavement interaction; geometric design of roadways; traffic flow analysis and level of service; fundamentals of interaction design; traffic safety. This course is not eligible for Credit/D/Fail grading. [3-0-4]
- Prerequisite: STAT 251.
- In Person Learning
- Tue Thu
- 9:30 a.m. - 11:00 a.m.

**Profession and Law in Civil Engineering**

- W1
- The Professional Governance Act; professional ethics, conflicts of interest, confidentiality and accountability, health and safety, sustainable development and environmental stewardship, equity considerations; design and construction contracts, specifications and bidding; labour and employment law; dispute resolution; evidence and expert witnesses; tests and legal liability. This course is not eligible for Credit/D/Fail grading. [3-0-0]
- In Person Learning
- Tue Thu
- 11:00 a.m. - 12:30 p.m.

**Engineering Economics Analysis**

- W2
- Time value of money, cash flow analysis, compounding options, depreciation, taxes, and inflation; financial accounting; company structures; public sector projects; decision making. This course is not eligible for Credit/D/Fail grading. [3-0-0]
- In Person Learning
- Tue Thu
- 12:30 p.m. - 2:00 p.m.

**Water Treatment and Waste Management**

- W1
- Environmental contamination, regulatory requirements, site investigations, migration of contaminants, containment systems, site remediation technologies, design considerations related to soil contamination interactions, hydrogeology, geophysics and types of contaminants. Design and performance case histories. [2-0-0] Prerequisite: CIVL 310 and fourth-year standing.
- In Person Learning
- Mon Wed Fri
- 10:00 a.m. - 11:00 a.m.

**Geo-Environmental Engineering**

- W2
- Design of municipal infrastructure, including streets, water supply networks, and sewers, garbage collection and solid waste management. Focus on solutions for providing 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. [3-0-4] Prerequisite: All of CIVL 215, CIVL 316.
- In Person Learning
- Mon Wed Fri
- 9:00 a.m. - 10:00 a.m.

**Foundation Engineering I**

- W1
- Advanced topics include site investigation, ground water problems, deep foundations, load transfer in soils, bored and driven piles, and drilled shafts. 
- Aspects of Geotechnical Engineering. Design considerations illustrated by case histories pertinent to BC. Topics include: site investigation; terrain analysis; in situ testing; groundwater problems; deep foundations; load transfer in soils; bored and driven piles; drilled shafts. 
- In Person Learning
- Mon Wed Fri
- 11:00 a.m. - 12:30 p.m.

**Foundation Engineering II**

- W2
- Identification and evaluation of solutions to construction site operation problems: the relationship between construction and geotechnical engineering. Geotechnical aspects of design and construction including foundation design; retaining structures; earth structures; earthquake loading; slope protection; field instrumentation. This course is not eligible for Credit/D/Fail grading. [3-0-4] Prerequisite: All of CIVL 311, CIVL 315, CIVL 316, CIVL 319, CIVL 411.
- In Person Learning
- Mon Wed Fri
- 11:00 a.m. - 12:30 p.m.

**Design of Earth Dams and Containment Structures**

- W2
- Disaster and failure of containment structures: planning and design for construction site operations; factors influencing the design of earth dams; stability and deformation under static and earthquake loading; stress protection; field instrumentation. This course is not eligible for Credit/D/Fail grading. [3-0-4] Prerequisite: All of CIVL 315, CIVL 316, CIVL 319, CIVL 403.
- In Person Learning
- Mon Wed Fri
- 9:00 a.m. - 10:00 a.m.

**Design of Simple One-Way Members Including Beams, Columns, Slabs and Footings**

- W2
- 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 conservation, and traffic simulation. Other topics at the discretion of the instructor. [3-0-4] Prerequisite: CIVL 210.
- In Person Learning
- Mon Wed Fri
- 9:00 a.m. - 10:00 a.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. [3-2*-1] Prerequisite: CIVL 231.

Continuous systems; lumped mass models, modal analysis, response spectra. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CIVL 203. and fourth-year standing.

Design of timber structural elements using limit states design principles; joints and fasteners; sawn timber and engineered wood products, timber frame systems and timber walls. Credit will be granted for only one of CIVL 430 or CIVL 516. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of CIVL 301, WOOD 386.

The credit value for this course will be determined in consultation with the student prior to the registration. Independent studies on a special topic. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.

In Person Learning 445 430 12:30 p.m. - 2:00 p.m.

Traffic operations and network analysis: microscopic; traffic models and flow-dynamics analysis; queuing theory and gaps; advanced signalized interactions 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: CIVL 340

Building science concepts associated with the design of modern buildings, focusing particularly on the building envelope's role in environmental separation, controlling the movement of heat, air, and moisture in liquid and vapor states. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: CIVL 340

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 340

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 303, and fourth-year standing.

Design of simple one-way members including beams, columns, slabs and footings. This course is not eligible for Credit/D/Fail grading. [2*-0-2] Prerequisite: CIVL 231.

Integration and application of previously acquired knowledge and skills to design solutions for a multi-disciplinary civil engineering project. Focus on conceptual and preliminary design. This course is not eligible for Credit/D/Fail grading. [2*-0-4] Prerequisite: CIVL 203, and fourth-year standing.

Integration and application of previously acquired knowledge and skills to design solutions for a multi-disciplinary civil engineering project. Focus on conceptual and preliminary design. This course is not eligible for Credit/D/Fail grading. [2*-0-4] Prerequisite: CIVL 203, and fourth-year standing.

Building science concepts associated with the design of modern buildings, focusing particularly on the building envelope's role in environmental separation, controlling the movement of heat, air, and moisture in liquid and vapor states. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Fourth-year standing.

Traffic operations and network analysis: microscopic; traffic models and flow-dynamics analysis; queuing theory and gaps; advanced signalized interactions 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: CIVL 340

In Person Learning 445 446 445 12:30 p.m. - 2:00 p.m.
Topics in Civil Engineering
Seminar or lecture. This course is not eligible for Credit/D/Fail grading.
In Person Learning
Thu Tue 2:00 p.m. - 3:30 p.m.

Course 49B M_201

Course 49B N_201

Course 49B R_201

Course 49B S_201

Course 504 101

Course 504 201

Course 505 201

Course 507 101

Course 509 101

Course 511 101

Course 513 201

Course 516 201

Course 517 101

Course 518 101

Course 520 101

Course 521 201

Course 522 201

Course 523 201

Course 526 101

Course 527 101

Course 528 201

Course 529 201

Course 530 201

Course 531 101

Course 532 201
Numerical techniques, weighted residual methods, finite differences, finite elements. Formulations using energy principles, shape functions, conformity, stiffness and mass matrices. Consistent load vectors. Applications to linear problems. Numerical integration and equation solvers. Dynamic problems. Introduction to nonlinear problems. This course is not eligible for Credit/D/Fail grading.

Wave theories; wave shoaling, refraction and diffraction; reflection; tide and currents; random waves; wave generation; coastal structures; sedimentation; shoreline processes; harbor design; coastal modelling. Credit will be granted for only one of CIVL 417 or CIVL 540. This course is not eligible for Credit/D/Fail grading.

Wave theories; wave shoaling, refraction and diffraction; reflection; tide and currents; random waves; wave generation; coastal structures; sedimentation; shoreline processes; harbor design; coastal modelling. Credit will be granted for only one of CIVL 417 or CIVL 540. This course is not eligible for Credit/D/Fail grading.

Analysis of density stratified flows with application to water quality problems in inland and coastal waters. This course is not eligible for Credit/D/Fail grading.

Physical processes that affect the behaviour of lakes, including reservoirs, water-filled mine pits, mine tailings ponds and other standing water bodies. Impacts of these processes on water quality, and methods used in the rehabilitation of lakes. This course is not eligible for Credit/D/Fail grading.

Physical and mathematical models of turbulent flow suitable for engineering estimates and predictions. This course is not eligible for Credit/D/Fail grading.

Modelling hydrologic processes. Flow forecasting models for watersheds. Hydrology in a global perspective. Hydrological measurement techniques. This course is not eligible for Credit/D/Fail grading.

Optimization and simulation and their use in civil engineering design, analysis, and operation. Problem formulation, classical solution techniques, and heuristic approaches, and their applications to the disciplines within civil engineering are addressed. This course is not eligible for Credit/D/Fail grading.

Case history studies of hydroelectric projects and water supply demands. Graphs on the engineering works of Fail Tersaft and current environmental aspects of these projects. This course is not eligible for Credit/D/Fail grading.

Parameters governing containment removal and system throughput in microfiltration and ultrafiltration for drinking water and wastewater treatment. This course is not eligible for Credit/D/Fail grading. [1.0-E]

Sampling, investigations, fans and transport of chemicals in soil, water, sediment, plants and air; exposure pathways assessment and ecotoxicological principles for receptors; risk-based approach to site remediation, treatment and control technologies. This course is not eligible for Credit/D/Fail grading.

Field and laboratory experimental studies of advanced aspects of soil behaviour; compressibility, shear strength, pore water pressure; dynamic tests; advanced instrumentation and measurement techniques; research reports required. This course is not eligible for Credit/D/Fail grading. [Prec: CIVL111]

Field and laboratory experimental studies of advanced aspects of soil behaviour; compressibility, shear strength, pore water pressure; dynamic tests; advanced instrumentation and measurement techniques; research reports required. This course is not eligible for Credit/D/Fail grading. [Prec: CIVL111]

Soil composition and geological factors affecting engineering properties, stress and strain in a point, principle of effective stress, stress-strain relations; theories of primary and secondary consolidation, settlement; shear testing equipment, stress-strain and behaviour of soil under static and dynamic loading. This course is not eligible for Credit/D/Fail grading. [Prec: CIVL111]

Degree and application of sampling and data analysis programs as they apply to environmental engineering. This course is not eligible for Credit/D/Fail grading. [Prec: CIVL111]

Fate of contaminants in inland and coastal waters. Pollutants associated with pulp mills, waste treatment plants, mining operations and other sources. Natural processes (physical, chemical, and biological) affecting the ultimate fate and impact of these pollutants. This course is not eligible for Credit/D/Fail grading.

Development of the principles of selected physical and chemical treatment unit operations. Applications in both wastewater and wastewater treatment. This course is not eligible for Credit/D/Fail grading.

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Fate of contaminants in inland and coastal waters. Pollutants associated with pulp mills, waste treatment plants, mining operations and other sources. Natural processes (physical, chemical, and biological) affecting the ultimate fate and impact of these pollutants. This course is not eligible for Credit/D/Fail grading.

Development of the principles of secondary, biological treatment processes, with application to both municipal and industrial wastewater treatment. Discussion of different treatment methodologies, incorporating both aerobic and anaerobic microbiological processes. This course is not eligible for Credit/D/Fail grading.

Soil composition and geological factors affecting engineering properties, stress and strain in a point, principle of effective stress, stress-strain relations; theories of primary and secondary consolidation, settlement; shear testing equipment, stress-strain and behaviour of soil under static and dynamic loading. This course is not eligible for Credit/D/Fail grading. [Prec: CIVL111]

Field and laboratory experimental studies of advanced aspects of soil behaviour; compressibility, shear strength, pore water pressure; dynamic tests; advanced instrumentation and measurement techniques; research reports required. This course is not eligible for Credit/D/Fail grading. [Prec: CIVL111]

Soil composition and geological factors affecting engineering properties, stress and strain in a point, principle of effective stress, stress-strain relations; theories of primary and secondary consolidation, settlement; shear testing equipment, stress-strain and behaviour of soil under static and dynamic loading. This course is not eligible for Credit/D/Fail grading. [Prec: CIVL111]

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Soil composition and geological factors affecting engineering properties, stress and strain in a point, principle of effective stress, stress-strain relations; theories of primary and secondary consolidation, settlement; shear testing equipment, stress-strain and behaviour of soil under static and dynamic loading. This course is not eligible for Credit/D/Fail grading. [Prec: CIVL111]

Field and laboratory experimental studies of advanced aspects of soil behaviour; compressibility, shear strength, pore water pressure; dynamic tests; advanced instrumentation and measurement techniques; research reports required. This course is not eligible for Credit/D/Fail grading. [Prec: CIVL111]
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Year</th>
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<td>CIVL_V 597-203</td>
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<td>CIVL_V 598-W_201</td>
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<td>Topics in Civil Engineering</td>
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<td>CIVL_V 599-101</td>
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<tr>
<td>CNPS_V 362-L2C</td>
<td>Basic Interviewing Skills</td>
<td>W2</td>
<td>Development of basic interviewing skills for counselling and guidance. [3-3]</td>
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<td>Wed 12:00 p.m. - 1:30 p.m.</td>
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<td>CNPS_V 362-L2D</td>
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<td>W2</td>
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<td>CNPS_V 362-L3A</td>
<td>Basic Interviewing Skills</td>
<td>W2</td>
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<td>In Person Learning</td>
<td>Thu 12:00 p.m. - 1:30 p.m.</td>
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<td>CNPS_V 362-L3B</td>
<td>Basic Interviewing Skills</td>
<td>W2</td>
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<td>CNPS_V 362-L3C</td>
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<td>CNPS_V 362-L3D</td>
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<td>W2</td>
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<td>CNPS_V 363-63A</td>
<td>Career Counselling</td>
<td>W1</td>
<td>Critical survey of career counselling theory and practice. [3-0]</td>
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<td>CNPS_V 363-63B</td>
<td>Career Counselling</td>
<td>W1</td>
<td>Critical survey of career counselling theory and practice. [3-0]</td>
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<td>Career Counselling</td>
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<tr>
<td>CNPS_V 363-63G</td>
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<td>CNPS_V 364-63A</td>
<td>Family Education and Consultation</td>
<td>W1</td>
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<td>CNPS_V 364-63B</td>
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<td>W1</td>
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<td>W1</td>
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### Course Descriptions

- **Introduction to Theories of Counselling**
  - An overview of selected theories of counselling. [3-0] Online Learning | Arranged

- **The Role of the Teacher in Guidance**
  - 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. [3-1] Online Learning | Arranged

- **Career Planning and Decision Making**
  - 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. [3-1] Online Learning | Arranged

- **Guidance Planning and Decision-making**
  - Major counselling theories, interventions for change and corresponding skill development. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CPNS 565-63C] The credit value for this course will be determined in consultation with the student prior to the registration. [1-0] Online Learning | Arranged

- **Career Planning and Decision Making**
  - Major counselling theories, interventions for change and corresponding skill development. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CPNS 565-63C] The credit value for this course will be determined in consultation with the student prior to the registration. [1-0] Online Learning | Arranged

- **Guidance Planning and Decision-making**
  - Major counselling theories, interventions for change and corresponding skill development. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CPNS 565-63C] The credit value for this course will be determined in consultation with the student prior to the registration. [1-0] Online Learning | Arranged

- **Guidance Planning and Decision-making**
  - Major counselling theories, interventions for change and corresponding skill development. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CPNS 565-63C] The credit value for this course will be determined in consultation with the student prior to the registration. [1-0] Online Learning | Arranged

- **Guidance Planning and Decision-making**
  - Major counselling theories, interventions for change and corresponding skill development. This course is not eligible for Credit/D/Fail grading. Prerequisite: [CPNS 565-63C] The credit value for this course will be determined in consultation with the student prior to the registration. [1-0] Online Learning | Arranged

- **Guidance Planning and Decision-making**
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Understanding and Designing Cognitive Systems

Introduction to the development and use of accounting information for management planning and control and the implementation of cost information for financial reporting. Credit will be granted for only one of COES 200 or COMM 200. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of two courses: COMM 151, COMM 152 or COMM 154.

In Person Learning
Mon, Wed
9:30 a.m. - 11:00 a.m.

Understanding and Designing Cognitive Systems

Basic concepts of finance, including security valuation, security markets, and financial decisions concerning risk and return. Credit will be granted for only one of COEC 371 or COMM 371. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of ECON 315, ECON 316 or (b) ECON 338. Equivalency: COMM 370

In Person Learning
Wed, Fri
3:00 p.m. - 5:00 p.m.

Understanding and Designing Cognitive Systems

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In Person Learning
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9:30 a.m. - 11:00 a.m.

Understanding and Designing Cognitive Systems

Basic concepts of finance, including security valuation, security markets, and financial decisions concerning risk and return. Credit will be granted for only one of COEC 371 or COMM 371. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of ECON 315, ECON 316 or (b) ECON 338. Equivalency: COMM 370

In Person Learning
Wed, Fri
3:00 p.m. - 5:00 p.m.

Understanding and Designing Cognitive Systems

Basic concepts of finance, including security valuation, security markets, and financial decisions concerning risk and return. Credit will be granted for only one of COEC 371 or COMM 371. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of ECON 315, ECON 316 or (b) ECON 338. Equivalency: COMM 370

In Person Learning
Mon, Wed
9:30 a.m. - 11:00 a.m.
Training, Development, and Performance Management

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. [3-2-0] Prerequisite: COGS 200. And 3 credits of CPSC. In Person Learning Wed 1:00 p.m. - 3:00 p.m.

COGS_V 300-107 COGS_V 300 107 Understanding and Designing Cognitive Systems W2 Theory and methods for integrating diverse disciplinary content in cognitive systems. [3-2-0] Prerequisite: COGS 200. And 3 credits of CPSC. In Person Learning Fri 11:00 a.m. - 12:30 p.m.

COGS_V 303-101 COGS_V 303 101 Research Methods in Cognitive Systems W1 Examination and comparison of the research methodologies of different disciplines relevant to cognitive systems. [1-4-0] Prerequisite: COGS 200. In Person Learning Fri 1:00 p.m. - 4:00 p.m.

COGS_V 303-202 COGS_V 303 202 Research Methods in Cognitive Systems W2 Examination and comparison of the research methodologies of different disciplines relevant to cognitive systems. [1-4-0] Prerequisite: COGS 200. In Person Learning Thu 2:00 p.m. - 5:00 p.m.

COGS_V 303-201 COGS_V 303 201 Research Methods in Cognitive Systems W2 Examination and comparison of the research methodologies of different disciplines relevant to cognitive systems. [1-4-0] Prerequisite: COGS 200. In Person Learning Thu 1:00 p.m. - 4:00 p.m.

COGS_V 308-202 COGS_V 308 202 Research Methods in Cognitive Systems W2 Examination and comparison of the research methodologies of different disciplines relevant to cognitive systems. [1-4-0] Prerequisite: COGS 200. Arranged Arranged

COGS_V 402-101 COGS_V 402 101 Seminar in Cognitive Systems W1 Interdisciplinary seminar integrating theory, methods, and current research topics. [1-0-4] Prerequisite: COGS 300. In Person Learning Mon-Thu 9:30 a.m. - 11:00 a.m.

COGS_V 402-301 COGS_V 402 301 Seminar in Cognitive Systems W2 Interdisciplinary seminar integrating theory, methods, and current research topics. [1-0-4] Prerequisite: COGS 300. In Person Learning Mon-Wed 11:00 a.m. - 12:30 p.m.

COGS_V 402-302 COGS_V 402 302 Seminar in Cognitive Systems W2 Interdisciplinary seminar integrating theory, methods, and current research topics. [1-0-4] Prerequisite: COGS 300. In Person Learning Tue-Thu 12:30 p.m. - 2:00 p.m.

COGS_V 405-101 COGS_V 405 101 Seminar in Cognitive Systems W1 Interdisciplinary seminar integrating theory, methods, and current research topics. [1-0-4] Prerequisite: COGS 300. In Person Learning Mon-Thu 9:30 a.m. - 11:00 a.m.

COGS_V 406-201 COGS_V 406 201 International Human Resource Management W2 Application of human resource management principles 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 204. In Person Learning Arranged Arranged

COGS_V 433-201 COGS_V 433 201 Employment Law W2 Introduction to legislation and application of legal principles that govern the employment relationship. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of COMM 301, COMM 303. In Person Learning Fri 12:30 p.m. - 3:30 p.m.
Describe, compare, and apply the main theories used in corpus linguistics, using qualitative and quantitative corpora, to perform diachronic and synchronic analyses. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Mon Wed  8:00 a.m. - 9:30 a.m.

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.

In Person Learning  Tue  4:00 p.m. - 6:00 p.m.

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.

In Person Learning  Mon Wed  9:30 a.m. - 12:00 p.m.

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.

In Person Learning  Mon  2:00 p.m. - 4:00 p.m.

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.

In Person Learning  Mon  4:00 p.m. - 6:00 p.m.

Identify and differentiate morphological processes occurring in natural language for implementation in computational linguistics applications. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Mon Wed  11:00 a.m. - 12:30 p.m.

Computational Morphology

In Person Learning  Wed  2:00 p.m. - 4:00 p.m.

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: COLX 535.

In Person Learning  Tue Thu  11:00 a.m. - 12:30 p.m.

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: COLX 535.

In Person Learning  Tue Thu  11:00 a.m. - 12:30 p.m.

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: COLX 535.

In Person Learning  Tue Thu  11:00 a.m. - 12:30 p.m.

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, COLX 521.

In Person Learning  Wed  4:00 p.m. - 6:00 p.m.

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, COLX 521.

In Person Learning  Wed  2:00 p.m. - 4:00 p.m.

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, COLX 521.

In Person Learning  Wed  2:00 p.m. - 4:00 p.m.

Language processing to analyze lexical semantics: WordNet, FrameNet, and the semantic web, applied to word sense disambiguation, entailment, question-answering, and knowledge base populations. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 521.

In Person Learning  Tue Thu  9:30 a.m. - 11:00 a.m.

Language processing to analyze lexical semantics: WordNet, FrameNet, and the semantic web, applied to word sense disambiguation, entailment, question-answering, and knowledge base populations. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 521.

In Person Learning  Tue  2:00 p.m. - 4:00 p.m.

Language processing to analyze lexical semantics: WordNet, FrameNet, and the semantic web, applied to word sense disambiguation, entailment, question-answering, and knowledge base populations. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 521.

In Person Learning  Tue  4:00 p.m. - 6:00 p.m.

Statistical and neural approaches to natural language meaning in computational semantics. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 561.

In Person Learning  Tue Thu  9:30 a.m. - 11:00 a.m.

Statistical and neural approaches to natural language meaning in computational semantics. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 561.

In Person Learning  Tue  2:00 p.m. - 4:00 p.m.

Statistical and neural approaches to natural language meaning in computational semantics. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 561.

In Person Learning  Tue  4:00 p.m. - 6:00 p.m.

Data crawling, annotation, evaluation, and modelling lexical information. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 565.

In Person Learning  Tue Thu  9:30 a.m. - 11:00 a.m.
Data crawling, annotation, evaluation, and modelling lexical information. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 563.

Data crawling, annotation, evaluation, and modelling lexical information. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 563.

Computational tools in relation to low-resource and other under-documented and very-low-resource language. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 563.

Computational tools in relation to low-resource and other under-documented and very-low-resource language. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 563.

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Data crawling, annotation, evaluation, and modelling lexical information. Restricted to students in the M.D.S. program with Computational Linguistics option. This course is not eligible for Credit/D/Fail grading. Prerequisite: COLX 563.

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<table>
<thead>
<tr>
<th>Code</th>
<th>Term</th>
<th>Number</th>
<th>Type</th>
<th>Description</th>
<th>Schedule</th>
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<tbody>
<tr>
<td>COMM_V</td>
<td>101</td>
<td>D09</td>
<td>Business Fundamentals</td>
<td>The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.</td>
<td>Fri 12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>COMM_V</td>
<td>101</td>
<td>D10</td>
<td>Business Fundamentals</td>
<td>An introduction to the roles and responsibilities of business at individual, organizational, and societal levels. Students will examine their personal values and 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.</td>
<td>Fri 11:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>COMM_V</td>
<td>101</td>
<td>D11</td>
<td>Business Fundamentals</td>
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<td>Fri 12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>COMM_V</td>
<td>101</td>
<td>D12</td>
<td>Business Fundamentals</td>
<td>The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.</td>
<td>Fri 1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>COMM_V</td>
<td>101</td>
<td>D13</td>
<td>Business Fundamentals</td>
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<tr>
<td>COMM_V</td>
<td>101</td>
<td>D14</td>
<td>Business Fundamentals</td>
<td>The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.</td>
<td>Fri 12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>COMM_V</td>
<td>105</td>
<td>D15</td>
<td>Business Fundamentals</td>
<td>The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.</td>
<td>Fri 1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>COMM_V</td>
<td>105</td>
<td>D16</td>
<td>Business Fundamentals</td>
<td>The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.</td>
<td>Fri 2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>COMM_V</td>
<td>105</td>
<td>D17</td>
<td>Business Fundamentals</td>
<td>The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.</td>
<td>Fri 3:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>COMM_V</td>
<td>105</td>
<td>D18</td>
<td>Business Fundamentals</td>
<td>The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.</td>
<td>Fri 4:00 p.m. - 5:00 p.m.</td>
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<td>COMM_V</td>
<td>105</td>
<td>D19</td>
<td>Business Fundamentals</td>
<td>The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.</td>
<td>Fri 5:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>COMM_V</td>
<td>105</td>
<td>D20</td>
<td>Business Fundamentals</td>
<td>The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.</td>
<td>Fri 6:00 p.m. - 7:00 p.m.</td>
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<tr>
<td>COMM_V</td>
<td>105</td>
<td>D21</td>
<td>Business Fundamentals</td>
<td>An introduction to the roles and responsibilities of business at individual, organizational, and societal levels. Students will examine their personal values and 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.</td>
<td>Fri 4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>COMM_V</td>
<td>110</td>
<td>D10</td>
<td>Business Fundamentals</td>
<td>The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.</td>
<td>Tue Thu 8:00 a.m. - 9:00 a.m.</td>
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<tr>
<td>COMM_V</td>
<td>110</td>
<td>D11</td>
<td>Business Fundamentals</td>
<td>The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.</td>
<td>Tue Thu 9:30 a.m. - 10:30 a.m.</td>
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<tr>
<td>COMM_V</td>
<td>110</td>
<td>D11</td>
<td>Business Fundamentals</td>
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<tr>
<td>COMM_V</td>
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<td>Business Fundamentals</td>
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<td>Tue Thu 12:30 a.m. - 1:00 p.m.</td>
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<tr>
<td>COMM_V</td>
<td>110</td>
<td>D13</td>
<td>Business Fundamentals</td>
<td>The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.</td>
<td>Tue Thu 1:30 p.m. - 2:30 p.m.</td>
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<tr>
<td>COMM_V</td>
<td>110</td>
<td>D14</td>
<td>Business Fundamentals</td>
<td>The different disciplines of business and their combination in management planning and decision-making. This course is not eligible for Credit/D/Fail grading.</td>
<td>Tue Thu 11:00 a.m. - 12:00 a.m.</td>
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</tbody>
</table>
An introduction to the roles and responsibilities of business at individual, organizational, and societal levels. Students will examine their personal values and by the foundation for ongoing, active exploration of career paths through which they can achieve their goals. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Tuesday, Thursday

8:00 a.m. - 9:00 a.m.
An introduction to the roles and responsibilities of business at individual, organizational, and societal levels. Students will examine their personal values and by the foundation for ongoing, active exploration of career paths through which they can achieve their goals. This course is not eligible for Credit/D/Fail grading.

In Person Learning 8:00 a.m. - 9:00 a.m. Tue Thu

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

In Person Learning 11:00 a.m. - 12:30 p.m. Fri

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

In Person Learning 3:00 p.m. - 4:00 p.m. Fri

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

In Person Learning 3:00 p.m. - 4:00 p.m. Fri

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

In Person Learning 6:00 p.m. - 7:00 p.m. Fri

In Person Learning 7:00 p.m. - 8:00 p.m. Fri

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

In Person Learning 3:00 p.m. - 4:00 p.m. Wed

In Person Learning 4:00 p.m. - 5:00 p.m. Wed

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

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In Person Learning 8:00 a.m. - 9:00 a.m. Wed

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

In Person Learning 11:00 a.m. - 12:30 p.m. Wed

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

In Person Learning 1:00 p.m. - 2:30 p.m. Wed

In Person Learning 2:30 p.m. - 4:00 p.m. Wed

In Person Learning 3:00 p.m. - 4:00 p.m. Wed

In Person Learning 4:00 p.m. - 5:00 p.m. Wed
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.

Compostute: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 181, MATH 184.

Equivalency: COMM290

Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 181, MATH 184.

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.

Compostute: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 181, MATH 184.

Equivalency: COMM290

Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 181, MATH 184.

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.

Compostute: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 181, MATH 184.

Equivalency: COMM290

Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 181, MATH 184.
<table>
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<tr>
<th>Course Code</th>
<th>Section</th>
<th>Credits</th>
<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
<th>Comments</th>
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<tr>
<td>COMM 190-L12</td>
<td>100</td>
<td>1.12</td>
<td>Introduction to Quantitative Decision-Making</td>
<td>W1</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning Thu</td>
<td>2.00 p.m. - 3.00 p.m.</td>
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<tr>
<td>COMM 190-L13</td>
<td>100</td>
<td>1.13</td>
<td>Introduction to Quantitative Decision-Making</td>
<td>W1</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning Thu</td>
<td>3:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>COMM 190-L14</td>
<td>100</td>
<td>1.14</td>
<td>Introduction to Quantitative Decision-Making</td>
<td>W1</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning Fr</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>COMM 190-L15</td>
<td>100</td>
<td>1.15</td>
<td>Introduction to Quantitative Decision-Making</td>
<td>W1</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning Fr</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>COMM 190-L16</td>
<td>100</td>
<td>1.16</td>
<td>Introduction to Quantitative Decision-Making</td>
<td>W1</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning Fr</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>COMM 190-L17</td>
<td>100</td>
<td>1.17</td>
<td>Introduction to Quantitative Decision-Making</td>
<td>W1</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning Fr</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>COMM 190-L18</td>
<td>100</td>
<td>1.18</td>
<td>Introduction to Quantitative Decision-Making</td>
<td>W1</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning Fr</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>COMM 190-L19</td>
<td>100</td>
<td>1.19</td>
<td>Introduction to Quantitative Decision-Making</td>
<td>W1</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning Fr</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<td>COMM 190-L20</td>
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<td>1.20</td>
<td>Introduction to Quantitative Decision-Making</td>
<td>W1</td>
<td>6:00 p.m. - 7:00 p.m.</td>
<td>In Person Learning Fr</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<td>Introduction to Quantitative Decision-Making</td>
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<td>In Person Learning Fr</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<td>Introduction to Quantitative Decision-Making</td>
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<td>8:00 p.m. - 9:00 p.m.</td>
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<tr>
<td>COMM 190-L23</td>
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<td>Introduction to Quantitative Decision-Making</td>
<td>W1</td>
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<td>Introduction to Quantitative Decision-Making</td>
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<td>10:00 p.m. - 11:00 p.m.</td>
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<td>COMM 190-L25</td>
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<td>1.25</td>
<td>Introduction to Quantitative Decision-Making</td>
<td>W1</td>
<td>11:00 p.m. - 12:00 p.m.</td>
<td>In Person Learning Fr</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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</table>

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 once of COMM 190, COMM 290, ECON 325, ECON 327, PSYC 366, STAT 241, or STAT 251. This course is not eligible for Credit/D/Fail grading.

Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Equivalency: COMM290

Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

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 once of COMM 190, COMM 290, ECON 325, ECON 327, PSYC 366, STAT 241, or STAT 251. This course is not eligible for Credit/D/Fail grading.

Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Equivalency: COMM290

Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

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 once of COMM 190, COMM 290, ECON 325, ECON 327, PSYC 366, STAT 241, or STAT 251. This course is not eligible for Credit/D/Fail grading.

Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Equivalency: COMM290

Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

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 once of COMM 190, COMM 290, ECON 325, ECON 327, PSYC 366, STAT 241, or STAT 251. This course is not eligible for Credit/D/Fail grading.

Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Equivalency: COMM290

Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

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 once of COMM 190, COMM 290, ECON 325, ECON 327, PSYC 366, STAT 241, or STAT 251. This course is not eligible for Credit/D/Fail grading.

Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Equivalency: COMM290

Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.
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 226, ECON 235, ECON 325, ECON 327, PSYC 366, STAT 241, or STAT 251. This course is not eligible for Credit/D/Fail grading.

Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM291

In Person Learning Fri

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

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 226, ECON 235, ECON 325, ECON 327, PSYC 366, STAT 241, or STAT 251. This course is not eligible for Credit/D/Fail grading.

Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM291

In Person Learning Fri

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

Behaviour in organizations as it affects people as individuals, their relationships with others, their performance in groups and their effectiveness at work. Credit will be granted for only one of COMM 192, COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading.

Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COMM291

In Person Learning Fri

3:30 p.m. - 5:00 p.m.

Methods and applications of statistics in business; data analysis, descriptive regression; data generation; sampling distributions; hypothesis testing; confidence intervals; two-sample problems; inference in regression. Credit will be granted for only one of COMM 190, BOX 100, COMM 391, ECON 226, ECON 235, ECON 325, ECON 327, PSYC 262, PSYC 275, PSYC 276, PSYC 284, PSYC 381, SOC 328, STAT 200, or STAT 203. This course is not eligible for Credit/D/Fail grading.

Prerequisite: One of COMM 180, COMM 188, COMM 268. Equivalency: COMM291

In Person Learning Mon Wed

3:30 p.m. - 5:00 p.m.

Methods and applications of statistics in business; data analysis, descriptive regression; data generation; sampling distributions; hypothesis testing; confidence intervals; two-sample problems; inference in regression. Credit will be granted for only one of COMM 190, BOX 100, COMM 391, ECON 226, ECON 235, ECON 325, ECON 327, PSYC 262, PSYC 275, PSYC 276, PSYC 284, PSYC 381, SOC 328, STAT 200, or STAT 203. This course is not eligible for Credit/D/Fail grading.

Prerequisite: One of COMM 180, COMM 188, COMM 268. Equivalency: COMM291

In Person Learning Tue Thu

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

Methods and applications of statistics in business; data analysis, descriptive regression; data generation; sampling distributions; hypothesis testing; confidence intervals; two-sample problems; inference in regression. Credit will be granted for only one of COMM 190, BOX 100, COMM 391, ECON 226, ECON 235, ECON 325, ECON 327, PSYC 262, PSYC 275, PSYC 276, PSYC 284, PSYC 381, SOC 328, STAT 200, or STAT 203. This course is not eligible for Credit/D/Fail grading.

Prerequisite: One of COMM 180, COMM 188, COMM 268. Equivalency: COMM291

In Person Learning Tue Thu

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

Behaviour in organizations as it affects people as individuals, their relationships with others, their performance in groups and their effectiveness at work. Credit will be granted for only one of COMM 192, COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM291

In Person Learning Mon Wed

8:00 a.m. - 9:30 a.m.

Behaviour in organizations as it affects people as individuals, their relationships with others, their performance in groups and their effectiveness at work. Credit will be granted for only one of COMM 192, COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM291

In Person Learning Mon Wed

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

Behaviour in organizations as it affects people as individuals, their relationships with others, their performance in groups and their effectiveness at work. Credit will be granted for only one of COMM 192, COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM291

In Person Learning Mon Wed

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

Behaviour in organizations as it affects people as individuals, their relationships with others, their performance in groups and their effectiveness at work. Credit will be granted for only one of COMM 192, COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM291

In Person Learning Mon Wed

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

Behaviour in organizations as it affects people as individuals, their relationships with others, their performance in groups and their effectiveness at work. Credit will be granted for only one of COMM 192, COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM291

In Person Learning Mon Wed

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

Behaviour in organizations as it affects people as individuals, their relationships with others, their performance in groups and their effectiveness at work. Credit will be granted for only one of COMM 192, COMM 292, COMM 321, COMM 329, or COMR 329. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM291

In Person Learning Mon Wed

12:30 p.m. - 2:00 p.m.
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<th>Course</th>
<th>Time</th>
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<td>COMM 196-101</td>
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<td>COMM 196-116</td>
<td>W1</td>
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Behaviour in organizations affects people as individuals, their relationships with others, their performance in groups, and effectiveness at work. Credit will be granted for only one of COMM 192, COMM 292, COMM 321, COMM 329, or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292

Course Description:

- 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.

Course Notes:

- 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

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<tr>
<th>Course</th>
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<td>COMM 196-116</td>
<td>W1</td>
<td>116</td>
<td>Business Communications I</td>
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</table>

Behaviour in organizations affects people as individuals, their relationships with others, their performance in groups, and effectiveness at work. Credit will be granted for only one of COMM 192, COMM 292, COMM 321, COMM 329, or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292

Course Description:

- 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, COMM 292, COMM 321, COMM 329, or COMM 395. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 292

Course Notes:

- Credit will be granted for only one of COMM 196, COMM 292, COMM 321, COMM 329, or COMM 395. 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  Mon Wed
2:00 a.m. - 3:30 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
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
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  Mon Wed
1:30 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 Wed
5:00 p.m. - 6:00 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
7:30 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
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.

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
5:00 p.m. - 6:00 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  Wed
4:00 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  Wed
5:00 p.m. - 6:00 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  Fri
1:00 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  Fri
2:00 p.m. - 3:00 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  Wed
5:00 p.m. - 6:00 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  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  Fri
12:00 p.m. - 1:00 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  Fri
1:00 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  Fri
2:00 p.m. - 3:00 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  Fri
3:00 p.m. - 4:00 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  Fri
4:00 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  Fri
5:00 p.m. - 6:00 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  Fri
6:00 p.m. - 7:00 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  Fri
7:00 p.m. - 8:00 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

<table>
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<th>Course Code</th>
<th>Section</th>
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<th>Days</th>
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<td>202</td>
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<td>CMV 203-015</td>
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<td>Mon</td>
<td>D20</td>
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<td>CMV 203-016</td>
<td>202</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>CMV 203-017</td>
<td>202</td>
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<td>CMV 203-018</td>
<td>202</td>
<td>3:00 p.m. - 4:00 p.m.</td>
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<td>CMV 203-019</td>
<td>202</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>Wed</td>
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<tr>
<td>CMV 203-020</td>
<td>202</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>Wed</td>
<td>D20</td>
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</tbody>
</table>
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.

**Managing the Employment Relationship**

**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.

**Managing the Employment Relationship**

**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.

**Managing the Employment Relationship**

**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 190, COMM 290 and either (a) all of ECON 101, ECON 102 or (b) ECON 191, COMM 290. This course is not eligible for Credit/D/Fail grading.

Managing the Employment Relationship

The design and management of systems to make products, provide services and deliver them to the end user. Credit will be granted for only one of COMM 204, COMM 398, or COMR 398. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 190, COMM 290 and one of COMM 191, COMM 290.

Logistics and Operations Management

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 190, COMM 290 and either (a) all of ECON 101, ECON 102 or (b) ECON 191, COMM 290. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Mon Wed

103

Logistics and Operations Management

3:30 p.m. - 5:00 p.m.

In Person Learning

Mon Wed

204

Logistics and Operations Management

204

Logistics and Operations Management

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

In Person Learning

Mon Wed

205

2:00 p.m. - 3:30 p.m.

In Person Learning

Mon Wed

206

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

In Person Learning

Mon Wed

207

8:00 a.m. - 9:30 a.m.

In Person Learning

Mon Wed

105

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

In Person Learning

Mon Wed

3:30 p.m. - 5:00 p.m.

In Person Learning

Mon Wed

106

2:00 p.m. - 3:30 p.m.

In Person Learning

Mon Wed

107

3:30 p.m. - 5:00 p.m.

In Person Learning

Mon Wed

108

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

In Person Learning

Mon Wed

109

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

In Person Learning

Mon Wed

110

2:00 p.m. - 3:30 p.m.

In Person Learning

Mon Wed

111

3:30 p.m. - 5:00 p.m.

In Person Learning

Mon Wed

112

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

In Person Learning

Mon Wed

113

2:00 p.m. - 3:30 p.m.

In Person Learning

Mon Wed

114

3:30 p.m. - 5:00 p.m.

In Person Learning

Mon Wed

115

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

In Person Learning

Mon Wed

116

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

In Person Learning

Mon Wed

117

2:00 p.m. - 3:30 p.m.

In Person Learning

Mon Wed

118

3:30 p.m. - 5:00 p.m.

In Person Learning

Mon Wed

119

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

In Person Learning

Mon Wed

120

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

In Person Learning

Mon Wed

121

3:00 a.m. - 5:00 a.m.

In Person Learning

Mon Wed

122

12:00 a.m. - 2:00 a.m.

In Person Learning

Mon Wed

123

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

In Person Learning

Mon Wed

124

3:00 a.m. - 5:00 a.m.

In Person Learning

Mon Wed

125

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

In Person Learning

Mon Wed

126

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

In Person Learning

Mon Wed

127

3:00 a.m. - 5:00 a.m.

In Person Learning

Mon Wed

128

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

In Person Learning

Mon Wed

129

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

In Person Learning

Mon Wed

130
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<th>Course Code</th>
<th>Course Title</th>
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<th>Hours</th>
<th>Mode</th>
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<tr>
<td>COMM 293-101</td>
<td>COMM 293-101</td>
<td>Introduction to Management Information Systems</td>
<td>2.00</td>
<td>Mon Wed</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<td>COMM 293-102</td>
<td>COMM 293-102</td>
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<td>2.00</td>
<td>Mon Wed</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<td>2.00</td>
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<td>9:30 a.m. - 11:00 a.m.</td>
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<td>Introduction to Management Information Systems</td>
<td>2.00</td>
<td>Mon Wed</td>
<td>12:30 p.m. - 2:00 p.m.</td>
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<td>COMM 293-105</td>
<td>COMM 293-105</td>
<td>Business Communications</td>
<td>2.00</td>
<td>Mon Wed</td>
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<td>COMM 293-106</td>
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<td>2.00</td>
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<td>3:30 p.m. - 5:00 p.m.</td>
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<td>COMM 293-107</td>
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<td>Business Communications</td>
<td>2.00</td>
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<td>12:30 p.m. - 2:00 p.m.</td>
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<td>2.00</td>
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<td>2.00</td>
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<td>12:30 p.m. - 2:00 p.m.</td>
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<td>3:30 p.m. - 5:00 p.m.</td>
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<td>2.00</td>
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<td>12:30 p.m. - 2:00 p.m.</td>
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<td>Business Communications</td>
<td>2.00</td>
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<td>3:30 p.m. - 5:00 p.m.</td>
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<td>COMM 293-115</td>
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<td>Business Communications</td>
<td>2.00</td>
<td>Mon Wed</td>
<td>12:30 a.m. - 2:00 a.m.</td>
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<td>Business Communications</td>
<td>2.00</td>
<td>Mon Wed</td>
<td>3:30 a.m. - 5:00 a.m.</td>
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<td>2.00</td>
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<td>12:30 a.m. - 2:00 a.m.</td>
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<td>COMM 293-118</td>
<td>COMM 293-118</td>
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<td>2.00</td>
<td>Mon Wed</td>
<td>3:30 a.m. - 5:00 a.m.</td>
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<td>COMM_V</td>
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<tr>
<td>COMM_V</td>
<td>296-101</td>
<td>101</td>
<td>W1</td>
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<td>Basic considerations affecting the domestic and international marketing of goods and services. Credit will be granted for any one of COMM 294, COMM 420, COMM 465, or COMM 465. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COEC 293.</td>
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<tr>
<td>COMM_V</td>
<td>296-105</td>
<td>105</td>
<td>W1</td>
<td></td>
<td>Basic considerations affecting the domestic and international marketing of goods and services. Credit will be granted for any one of COMM 294, COMM 420, COMM 465, or COMM 465. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184. Equivalency: COEC 293.</td>
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Basic considerations affecting the domestic and international marketing of goods and services. Credit will be granted for only one of COMM 294, COMM 295, COMM 420, COMM 465, or COMM 473. This course is not eligible for Credit/No Credit grading. Corequisite: COMM 293 and one of COMM 296, ECON 201, ECON 203.

Basic considerations affecting the domestic and international marketing of goods and services. Credit will be granted for only one of COMM 294, COMM 295, COMM 420, COMM 465, or COMM 473. This course is not eligible for Credit/No Credit grading. Corequisite: COMM 293 and one of COMM 296, ECON 201, ECON 203.

Basic considerations affecting the domestic and international marketing of goods and services. Credit will be granted for only one of COMM 294, COMM 295, COMM 420, COMM 465, or COMM 473. This course is not eligible for Credit/No Credit grading. Corequisite: COMM 293 and one of COMM 296, ECON 201, ECON 203.

In Person Learning Mon Wed

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COMM 298-101 COMM_V 201 205 Introduction to Finance [3-0-0] Credit/D/Fail grading. Prerequisite: COMM 203.

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.

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.

Evaluation of investment in real estate assets; proforma analysis, property and asset management, equity securitization, appraisal, and international real estate investment. This course is not eligible for Credit/D/Fail grading.

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.

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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.
Application of descriptive and inferential statistics to decisions in core Human Resource (HR) areas, including recruitment, selection, compensation, training, and performance management using organizations. HR data and human capital metrics. Machine learning and AI in strategic HR decision making. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 190, COMM 205.

In Person Learning  Mon Wed  10:30 a.m. - 2:00 p.m.

Introduction to information technology-related to business use. Design, implementation and application of Information Systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 205, CPSC 210.

In Person Learning  Thu  3:30 p.m. - 6:30 p.m.

Introduction to information technology-related to business use. Design, implementation and application of Information Systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 205, CPSC 210.

In Person Learning  Fri  12:30 p.m. - 3:30 p.m.

Business fundamentals in the digital economy: leveraging digitization and automation; data and analytics; platforms; crowdsourcing; understanding the impact of digital technologies on firms, markets, economies as well as individuals and society. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.

In Person Learning  Mon Wed  5:00 p.m. - 6:30 p.m.

Introduction to object-oriented computer programming; computational thinking; program design; scripting; documentation techniques; file handling; database access; and web crawling techniques. Students will apply data structures and algorithms to the development of business analytics and other related applications. Credit will be granted for only one of COMM 207 and CPSC 210. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.

In Person Learning  Mon Wed  2:00 p.m. - 3:30 p.m.

Introduction to object-oriented computer programming; computational thinking; program design; scripting; documentation techniques; file handling; database access; and web crawling techniques. Students will apply data structures and algorithms to the development of business analytics and other related applications. Credit will be granted for only one of COMM 207 and CPSC 210. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205.

In Person Learning  Tue Thu  11:00 a.m. - 12:30 p.m.

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 210, COMM 214, Corequisite: Either (a) all of COMM 297, COMM 397 or (b) COMM 298.

In Person Learning  Wed  9:30 a.m. - 11:00 a.m.

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 210, COMM 214, Corequisite: Either (a) all of COMM 297, COMM 397 or (b) COMM 298.

In Person Learning  Wed  9:30 a.m. - 11:00 a.m.

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 210, COMM 214, Corequisite: Either (a) all of COMM 297, COMM 397 or (b) COMM 298.

In Person Learning  Wed  9:30 a.m. - 11:00 a.m.

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 210, COMM 214, Corequisite: Either (a) all of COMM 297, COMM 397 or (b) COMM 298.

In Person Learning  Wed  9:30 a.m. - 11:00 a.m.

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 210, COMM 214, Corequisite: Either (a) all of COMM 297, COMM 397 or (b) COMM 298.

In Person Learning  Wed  9:30 a.m. - 11:00 a.m.

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 210, COMM 214, Corequisite: Either (a) all of COMM 297, COMM 397 or (b) COMM 298.

In Person Learning  Wed  9:30 a.m. - 11:00 a.m.

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 210, COMM 214, Corequisite: Either (a) all of COMM 297, COMM 397 or (b) COMM 298.

In Person Learning  Wed  9:30 a.m. - 11:00 a.m.

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 210, COMM 214, Corequisite: Either (a) all of COMM 297, COMM 397 or (b) COMM 298.

In Person Learning  Wed  9:30 a.m. - 11:00 a.m.

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In Person Learning  Wed  9:30 a.m. - 11:00 a.m.

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 210, COMM 214, Corequisite: Either (a) all of COMM 297, COMM 397 or (b) COMM 298.

In Person Learning  Wed  9:30 a.m. - 11:00 a.m.

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 210, COMM 214, Corequisite: Either (a) all of COMM 297, COMM 397 or (b) COMM 298.

In Person Learning  Wed  9:30 a.m. - 11:00 a.m.

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 205, COMM 204 and one of COMM 190, COMM 200 and one of COMM 201, COMM 291.

In Person Learning  Mon Wed  9:30 a.m. - 11:00 a.m.

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 205, COMM 204 and one of COMM 190, COMM 200 and one of COMM 201, COMM 291.

In Person Learning  Mon Wed  9:30 a.m. - 11:00 a.m.

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 205, COMM 204 and one of COMM 190, COMM 200 and one of COMM 201, COMM 291.

In Person Learning  Mon Wed  9:30 a.m. - 11:00 a.m.
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<td>COMM.V 355-201</td>
<td>Cost Accounting</td>
<td>W2</td>
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<td>9:30 a.m. - 12:00 p.m.</td>
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<td>Income Taxation</td>
<td>W1</td>
<td>3</td>
<td>8:00 a.m. - 9:30 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM.V 355-202</td>
<td>Cost Accounting</td>
<td>W2</td>
<td>3</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM.V 362-101</td>
<td>Consumer Behaviour</td>
<td>W1</td>
<td>3</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM.V 362-102</td>
<td>Consumer Behaviour</td>
<td>W1</td>
<td>3</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM.V 362-201</td>
<td>Consumer Behaviour</td>
<td>W2</td>
<td>2</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM.V 362-202</td>
<td>Consumer Behaviour</td>
<td>W2</td>
<td>2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM.V 362-203</td>
<td>Consumer Behaviour</td>
<td>W2</td>
<td>2</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM.V 363-101</td>
<td>Marketing Analysis</td>
<td>W1</td>
<td>3</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM.V 363-102</td>
<td>Marketing Analysis</td>
<td>W1</td>
<td>3</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM.V 363-103</td>
<td>Marketing Analysis</td>
<td>W1</td>
<td>3</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM.V 363-201</td>
<td>Marketing Analysis</td>
<td>W2</td>
<td>3</td>
<td>8:00 a.m. - 9:30 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM.V 363-202</td>
<td>Marketing Analysis</td>
<td>W2</td>
<td>3</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM.V 363-203</td>
<td>Marketing Analysis</td>
<td>W2</td>
<td>3</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM.V 365-101</td>
<td>Market Research</td>
<td>W1</td>
<td>3</td>
<td>8:00 a.m. - 9:30 a.m.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>

The provisions 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. Prerequisites: All of COMM 293, COMM 294 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291.

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. Prerequisites: COMM 296.

A study of income tax from the standpoint of the individual and business enterprise. This course is not eligible for Credit/D/Fail grading. Prerequisites: COMM293, COMM457.

A study of income tax from the standpoint of the individual and business enterprise. This course is not eligible for Credit/D/Fail grading. Prerequisites: 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. Prerequisites: COMM 296.

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. Prerequisites: COMM 296.

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. Prerequisites: COMM 296.

The process of marketing research including topics such as problem/opportunity formulation, research objectives, data sources, research mention design, sampling, data collection and processing and methods of data analysis. This course is not eligible for Credit/D/Fail grading. Prerequisites: COMM 293 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291 and one of COMM 295, ECON 201, ECON 301. Co-requisites: COMM 200.
COMM_V 201-101 COMM_V 365 201 Corporate Finance

The process of marketing research including topics such as problem/opportunity formulation, research objectives, data sources, research/instrument design, sampling, data collection and processing and methods of data analysis. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291 and one of COMM 295, ECON 201, ECON 301. Corequisite: COMM 205.

In Person Learning Mon Wed
3:00 p.m. - 5:00 p.m.

COMM_V 201-102 COMM_V 365 202 Market Research

The process of marketing research including topics such as problem/opportunity formulation, research objectives, data sources, research/instrument design, sampling, data collection and processing and methods of data analysis. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291 and one of COMM 295, ECON 201, ECON 301. Corequisite: COMM 205.

In Person Learning Mon Wed
3:00 p.m. - 5:00 p.m.

COMM_V 201-201 COMM_V 365 201 Corporate Finance

The process of marketing research including topics such as problem/opportunity formulation, research objectives, data sources, research/instrument design, sampling, data collection and processing and methods of data analysis. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 296 and one of COMM 190, COMM 290 and one of COMM 191, COMM 291 and one of COMM 295, ECON 201, ECON 301. Corequisite: COMM 205.

In Person Learning Mon Wed
2:00 p.m. - 3:30 p.m.

COMM_V 201-202 COMM_V 365 202 Corporate Finance

In Person Learning Mon Wed
3:00 p.m. - 5:00 p.m.

COMM_V 203-101 COMM_V 370 105 Corporate Finance

Examination of corporate enterprise decisions including capital budgeting, corporate enterprise decisions including capital budgeting, corporate enterprise decisions including capital budgeting, corporate enterprise decisions including capital budgeting. 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 206. Equivalency: COEC 370

In Person Learning Mon Wed
8:00 a.m. - 9:30 a.m.

COMM_V 203-102 COMM_V 370 106 Corporate Finance

Examination of corporate enterprise decisions including capital budgeting, corporate enterprise decisions including capital budgeting, corporate enterprise decisions including capital budgeting. 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 206. Equivalency: COEC 370

In Person Learning Mon Wed
8:00 a.m. - 9:30 a.m.

COMM_V 203-103 COMM_V 370 107 Corporate Finance

Examination of corporate enterprise decisions including capital budgeting, corporate enterprise decisions including capital budgeting, corporate enterprise decisions including capital budgeting. 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 206. Equivalency: COEC 370

In Person Learning Mon Wed
11:00 a.m. - 12:30 p.m.

COMM_V 203-104 COMM_V 370 108 Corporate Finance

Examination of corporate enterprise decisions including capital budgeting, corporate enterprise decisions including capital budgeting, corporate enterprise decisions including capital budgeting. 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 206. Equivalency: COEC 370

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

COMM_V 204-101 COMM_V 365 105 Management

Basic concepts of finance, including security valuation, equity markets, and financial decisions concerning risk and return. Credit will be granted for only one of COMM 297 or ECON 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: ECON 271

In Person Learning Mon Wed
8:00 a.m. - 9:30 a.m.

COMM_V 204-102 COMM_V 365 106 Management

Basic concepts of finance, including security valuation, equity markets, and financial decisions concerning risk and return. Credit will be granted for only one of COMM 297 or ECON 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: ECON 271

In Person Learning Mon Wed
8:00 a.m. - 9:30 a.m.

COMM_V 204-103 COMM_V 365 107 Management

Basic concepts of finance, including security valuation, equity markets, and financial decisions concerning risk and return. Credit will be granted for only one of COMM 297 or ECON 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: ECON 271

In Person Learning Mon Wed
8:00 a.m. - 9:30 a.m.

COMM_V 204-104 COMM_V 365 108 Management

Basic concepts of finance, including security valuation, equity markets, and financial decisions concerning risk and return. Credit will be granted for only one of COMM 297 or ECON 370. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: ECON 271

In Person Learning Mon Wed
8:00 a.m. - 9:30 a.m.
Basic concepts of finance, including security valuation, security markets, and financial decisions concerning risk and return. Credit will be granted for only one of COMM 371 or COEC 371. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. Equivalency: COEC 271. In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.

Introduction to methodologies and evidence concerning the structure and operation of security markets and the valuation of financial securities including stocks, bonds, options and futures contracts; portfolio management, corporate finance and investment decisions. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371. In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.

Introduction to methodologies and evidence concerning the structure and operation of security markets and the valuation of financial securities including stocks, bonds, options and futures contracts; portfolio management, corporate finance and investment decisions. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371. In Person Learning Mon Wed 8:00 a.m. - 9:10 a.m.

Introduction to methodologies and evidence concerning the structure and operation of security markets and the valuation of financial securities including stocks, bonds, options and futures contracts; portfolio management, corporate finance and investment decisions. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371. In Person Learning Mon Wed 9:30 a.m. - 10:00 a.m.

Introduction to methodologies and evidence concerning the structure and operation of security markets and the valuation of financial securities including stocks, bonds, options and futures contracts; portfolio management, corporate finance and investment decisions. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371. In Person Learning Mon Wed 12:00 p.m. - 2:00 p.m.

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. - 3:10 p.m.

Introduction to methodologies and evidence concerning the structure and operation of security markets and the valuation of financial securities including stocks, bonds, options and futures contracts; portfolio management, corporate finance and investment decisions. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371. In Person Learning Mon Wed 9:30 a.m. - 12:30 a.m.

The role and operation of financial institutions, including banks, and the financial systems and markets in which they function, including those involving payments processes and the creation and use of fiat and digital money including cryptocurrencies. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. In Person Learning Tue Thu 11:00 a.m. - 12:10 a.m.

The role and operation of financial institutions, including banks, and the financial systems and markets in which they function, including those involving payments processes and the creation and use of fiat and digital money including cryptocurrencies. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.

The role and operation of financial institutions, including banks, and the financial systems and markets in which they function, including those involving payments processes and the creation and use of fiat and digital money including cryptocurrencies. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 298. In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.

The psychological processes that give rise to decision-making biases in investment settings and counter-strategies to minimize their negative effects on financial decisions. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 11:00 a.m. - 12:30 a.m.

The psychological processes that give rise to decision-making biases in investment settings and counter-strategies to minimize their negative effects on financial decisions. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

The role and operation of financial institutions, including banks, and the financial systems and markets in which they function, including those involving payments processes and the creation and use of fiat and digital money including cryptocurrencies. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 12:00 p.m. - 2:00 p.m.

Structure, nature and institutions of foreign-exchange markets, including spot, forward, futures, options, and offshore currency markets. Factors affecting exchange rates are also discussed. Credit will be granted for only one of ECON 456, COMM 371, or COEC 377. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371. Equivalency: COEC 377. In Person Learning Mon Wed 12:00 p.m. - 2:00 p.m.

Structure, nature and institutions of foreign-exchange markets, including spot, forward, futures, options, and offshore currency markets. Factors affecting exchange rates are also discussed. Credit will be granted for only one of ECON 456, COMM 371, or COEC 377. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371. Equivalency: COEC 377. In Person Learning Mon Wed 12:00 p.m. - 2:00 p.m.

Approved and supervised work experience for a minimum of 3.5 months. Normally taken during the winter term of the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Commerce. Option-specific prerequisites apply. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

Approved and supervised work experience for a minimum of 3.5 months. Normally taken during the winter term of the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Commerce. Option-specific prerequisites apply. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

Approved and supervised work experience for a minimum of 3.5 months. Normally taken during the summer term of the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Commerce. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM381]. In Person Learning Arranged Arranged

Approved and supervised work experience for a minimum of 3.5 months. Normally taken during the summer term of the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Commerce. This course is not eligible for Credit/D/Fail grading. Prerequisite: [COMM381]. In Person Learning Arranged Arranged

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 380 and COMM 382. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM882. In Person Learning Tue Thu 8:00 a.m. - 9:10 a.m.

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 380 and COMM 382. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM882. In Person Learning Tue Thu 8:30 a.m. - 11:00 a.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Year</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM_V 386_C_101</td>
<td>Topics in Business III</td>
<td>2</td>
<td>W2</td>
<td>12:30 p.m.</td>
<td>Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386. 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. Equivalency: COEC 387, COMR 386.</td>
</tr>
<tr>
<td>COMM_V 386_I_101</td>
<td>Topics in Business III</td>
<td>2</td>
<td>W2</td>
<td>9:30 a.m.</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386. 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. Equivalency: COEC 387, COMR 386.</td>
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<td>COMM_V 386_L_101</td>
<td>Topics in Business III</td>
<td>2</td>
<td>W2</td>
<td>11:00 a.m.</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386. 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. Equivalency: COEC 387, COMR 386.</td>
</tr>
<tr>
<td>COMM_V 386_A_101</td>
<td>Topics in Business III</td>
<td>2</td>
<td>W1</td>
<td>10:30 a.m.</td>
<td>Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386. 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. Equivalency: COEC 387, COMR 386.</td>
</tr>
<tr>
<td>COMM_V 386_P_101</td>
<td>Topics in Business III</td>
<td>2</td>
<td>W1-2</td>
<td>2:00 p.m.</td>
<td>Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386. 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. Equivalency: COEC 387, COMR 386.</td>
</tr>
<tr>
<td>COMM_V 386_T_101</td>
<td>Topics in Business III</td>
<td>2</td>
<td>W1</td>
<td>11:00 a.m.</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386. 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. Equivalency: COEC 387, COMR 386.</td>
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<tr>
<td>COMM_V 386_T_201</td>
<td>Topics in Business III</td>
<td>2</td>
<td>W2</td>
<td>11:00 a.m.</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386. 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. Equivalency: COEC 387, COMR 386.</td>
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<tr>
<td>COMM_V 386_U_101</td>
<td>Topics in Business III</td>
<td>2</td>
<td>W1</td>
<td>12:30 p.m.</td>
<td>Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386. 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. Equivalency: COEC 387, COMR 386.</td>
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<tr>
<td>COMM_V 387_101</td>
<td>Entrepreneurial Finance and Private Equity</td>
<td>3</td>
<td>W1</td>
<td>11:00 a.m.</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COEC 387, COMR 386.</td>
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<tr>
<td>COMM_V 387_102</td>
<td>Entrepreneurial Finance and Private Equity</td>
<td>3</td>
<td>W1</td>
<td>11:00 a.m.</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COEC 387, COMR 386.</td>
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<tr>
<td>COMM_V 388_101</td>
<td>Design Methods for Business Innovation</td>
<td>3</td>
<td>W1</td>
<td>12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386, COMM 387.</td>
</tr>
<tr>
<td>COMM_V 388_201</td>
<td>Design Methods for Business Innovation</td>
<td>3</td>
<td>W2</td>
<td>12:30 p.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386, COMM 387.</td>
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<tr>
<td>COMM_V 389_101</td>
<td>Commercial Law</td>
<td>3</td>
<td>W1</td>
<td>11:00 a.m.</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386, COMM 387.</td>
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<tr>
<td>COMM_V 389_201</td>
<td>Commercial Law</td>
<td>3</td>
<td>W2</td>
<td>11:00 a.m.</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386, COMM 387.</td>
</tr>
<tr>
<td>COMM_V 390_101</td>
<td>Commercial Law</td>
<td>3</td>
<td>W1</td>
<td>12:30 p.m.</td>
<td>Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386, COMM 387.</td>
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<tr>
<td>COMM_V 390_201</td>
<td>Commercial Law</td>
<td>3</td>
<td>W2</td>
<td>12:30 p.m.</td>
<td>Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386, COMM 387.</td>
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<tr>
<td>COMM_V 391_101</td>
<td>Commercial Law</td>
<td>3</td>
<td>W1</td>
<td>11:00 a.m.</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386, COMM 387.</td>
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<tr>
<td>COMM_V 391_201</td>
<td>Commercial Law</td>
<td>3</td>
<td>W2</td>
<td>12:30 p.m.</td>
<td>Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386, COMM 387.</td>
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<tr>
<td>COMM_V 392_101</td>
<td>Commercial Law</td>
<td>3</td>
<td>W1</td>
<td>12:30 p.m.</td>
<td>Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386, COMM 387.</td>
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<tr>
<td>COMM_V 392_201</td>
<td>Commercial Law</td>
<td>3</td>
<td>W2</td>
<td>12:30 p.m.</td>
<td>Wed</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 386, COMM 387.</td>
</tr>
</tbody>
</table>

This course is not eligible for Credit/D/Fail grading. Equivalency: COEC387, COMR387.
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.

Environment, Society, and Government

Roles of government and business in the Canadian economy, emphasizing interactions with the environment and society, including Indigenous communities. Ethical foundations of government, business and personal decision-making. Credit will be granted for only one of ECON 201 or COMM 394. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 202. Equivalency: ECON 394.

Commercial Law

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.

Environment, Society, and Government

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.

Commercial Law

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.

Environment, Society, and Government

Roles of government and business in the Canadian economy, emphasizing interactions with the environment and society, including Indigenous communities. Ethical foundations of government, business and personal decision-making. Credit will be granted for only one of ECON 201 or COMM 394. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 202. Equivalency: ECON 394.

Commercial Law

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.

Commercial Law

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.
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<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 294-101</td>
<td>Business Communications</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM 294-102</td>
<td>Business Communications</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM 294-103</td>
<td>Business Communications</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM 294-201</td>
<td>Business Communications</td>
<td>W2</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM 294-202</td>
<td>Business Communications</td>
<td>W2</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM 294-301</td>
<td>Business Communications</td>
<td>W2</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM 294-302</td>
<td>Business Communications</td>
<td>W2</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>COMM 294-303</td>
<td>Business Communications</td>
<td>W2</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one of COMM 396, COMM 390, COMM 220, or ENGL 301. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 295. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301. Equivalency: COMM 194.

Roles of government and business in the Canadian economy, emphasizing interactions with the environment and society, including Indigenous communities. Ethical foundations of government, business and personal decision making. Credit will be granted for only one of COMM 295, COMM 396, or COMM 394. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301. Equivalency: COMM 194.

Understanding non-written communications in day-to-day business. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301. Equivalency: COMM 194.

ECON 301. Equivalency: COEC394

Roles of government and business in the Canadian economy, emphasizing interactions with the environment and society, including Indigenous communities. Ethical foundations of government, business and personal decision making. Credit will be granted for only one of COMM 295, COMM 396, or COMM 394. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301. Equivalency: COMM 194.

Roles of government and business in the Canadian economy, emphasizing interactions with the environment and society, including Indigenous communities. Ethical foundations of government, business and personal decision making. Credit will be granted for only one of COMM 295, COMM 396, or COMM 394. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301. Equivalency: COMM 194.

Roles of government and business in the Canadian economy, emphasizing interactions with the environment and society, including Indigenous communities. Ethical foundations of government, business and personal decision making. Credit will be granted for only one of COMM 295, COMM 396, or COMM 394. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301. Equivalency: COMM 194.
An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

Hybrid Learning
Tue Thu
2:00 p.m. - 3:10 p.m.

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

In Person Learning
Tue Thu
1:30 p.m. - 5:00 p.m.

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

In Person Learning
Wed Fri
8:00 a.m. - 8:10 a.m.

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

In Person Learning
Wed Fri
9:30 a.m. - 11:00 a.m.

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

In Person Learning
Mon Fri
2:00 p.m. - 3:30 p.m.

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

Hybrid Learning
Wed Fri
3:30 p.m. - 5:00 p.m.

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

In Person Learning
Mon Fri
12:30 p.m. - 2:00 p.m.

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

In Person Learning
Mon Fri
11:00 a.m. - 1:00 p.m.

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

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

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

In Person Learning
Tue Thu
3:30 p.m. - 5:00 p.m.

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

Hybrid Learning
Wed Fri
3:30 p.m. - 5:00 p.m.

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

Hybrid Learning
Wed Fri
12:30 p.m. - 2:00 p.m.

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

In Person Learning
Wed Fri
9:30 a.m. - 11:00 a.m.

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

In Person Learning
Tue Thu
5:00 p.m. - 7:00 p.m.

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

In Person Learning
Mon Fri
5:00 p.m. - 7:00 p.m.

An activity-focused course providing the opportunity to study and practice forms of written communication needed in business. Credit will be granted for only one COMM 396, COMM 390, COMM 220, or ENG 101. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 196. Equivalency: COMM 390

In Person Learning
Mon Fri
5:00 p.m. - 7:00 p.m.
COMM_V 405-101 COMM_V 405 101 Real Estate Finance W1 The role of mortgage markets, mathematical analysis of return and valuation issue and methods of dealing with lender and borrower risk exposure. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 297, COMM 298.
In Person Learning Mon Wed 2:00 p.m. - 3:10 p.m.

COMM_V 405-102 COMM_V 405 102 Real Estate Finance W1 The role of mortgage markets, mathematical analysis of return and valuation issue and methods of dealing with lender and borrower risk exposure. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 297, COMM 298.
In Person Learning Mon Wed 3:30 p.m. - 5:00 p.m.

COMM_V 407-201 COMM_V 407 201 Real Estate Economics W2 The economics of real estate markets. Topics include real estate cycles and bubbles, search models and vacancy, the relationship between interest rate and the economy, housing demand, and models of housing supply. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301.
In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

COMM_V 407-202 COMM_V 407 202 Real Estate Economics W2 The economics of real estate markets. Topics include real estate cycles and bubbles, search models and vacancy, the relationship between interest rate and the economy, housing demand, and models of housing supply. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 295, ECON 201, ECON 301.
In Person Learning Tue Thu 2:00 p.m. - 3:10 p.m.

COMM_V 408-201 COMM_V 408 201 Real Estate Development W2 The development process from theories of development, market analysis, site selection, project design, land use regulations and financial analysis. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 297, COMM 298.
In Person Learning Tue Thu 9:00 a.m. - 10:30 a.m.

COMM_V 410-001 COMM_V 410 001 Dual Degree Year 4 at University of Hong Kong W1, 2 This student is registered in the Dual Degree Bachelor of Commerce program with the University of British Columbia (UBC) and the University of Hong Kong (HKU). For complete details please see the University of Hong Kong academic record.
In Person Learning Arranged Arranged

COMM_V 412-101 COMM_V 412 101 Negotiation W1 Negotiation simulations to provide experience and confidence in the negotiation process and to develop effective skills for achieving objectives. This course is not eligible for Credit/D/Fail grading.
In Person Learning Arranged Arranged

COMM_V 412-102 COMM_V 412 102 Negotiation W1 Negotiation simulations to provide experience and confidence in the negotiation process and to develop effective skills for achieving objectives. This course is not eligible for Credit/D/Fail grading.
In Person Learning Arranged Arranged

COMM_V 412-201 COMM_V 412 201 Negotiation W2 Negotiation simulations to provide experience and confidence in the negotiation process and to develop effective skills for achieving objectives. This course is not eligible for Credit/D/Fail grading.
In Person Learning Fri 9:00 a.m. - 10:00 a.m.

COMM_V 412-202 COMM_V 412 202 Negotiation W2 Negotiation simulations to provide experience and confidence in the negotiation process and to develop effective skills for achieving objectives. This course is not eligible for Credit/D/Fail grading.
In Person Learning Fri 1:00 p.m. - 2:00 p.m.

COMM_V 414-101 COMM_V 414 101 Data Visualization and Business Analytics W1 Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.
In Person Learning Tue Thu 1:00 p.m. - 2:00 p.m.

COMM_V 414-102 COMM_V 414 102 Data Visualization and Business Analytics W1 Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.
In Person Learning Tue Thu 3:30 p.m. - 4:30 p.m.

COMM_V 414-201 COMM_V 414 201 Data Visualization and Business Analytics W2 Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.
In Person Learning Tue Thu 9:30 a.m. - 10:30 a.m.

COMM_V 414-202 COMM_V 414 202 Data Visualization and Business Analytics W2 Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.
In Person Learning Tue Thu 11:00 a.m. - 12:00 a.m.

COMM_V 414-203 COMM_V 414 203 Data Visualization and Business Analytics W2 Descriptive analytics including data analysis and visualization. Predictive analytics including forecasting and various statistical techniques. Decision trees, and discrete event simulation. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.
In Person Learning Mon Wed 1:30 p.m. - 2:30 p.m.

COMM_V 415-101 COMM_V 415 101 Quantitative Policy Analysis W1 Quantitative evaluation of public policies using statistical evaluation methods, cost benefit, and effectiveness analysis. Public policies affecting service provision and infrastructure investment in air, rail, marine, public transit, and pipelines evaluated on pricing, operating costs, productivity, safety, security, and the environment. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 204, ECON 201, ECON 301.
In Person Learning Tue Thu 9:30 a.m. - 11:10 a.m.

COMM_V 415-201 COMM_V 415 201 Quantitative Policy Analysis W2 Quantitative evaluation of public policies using statistical evaluation methods, cost benefit, and effectiveness analysis. Public policies affecting service provision and infrastructure investment in air, rail, marine, public transit, and pipelines evaluated on pricing, operating costs, productivity, safety, security, and the environment. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 204, ECON 201, ECON 301.
In Person Learning Arranged Arranged

COMM_V 420-001 COMM_V 420 001 Marketing W1 Basic considerations affecting the domestic and international marketing of goods and services. Analytical frameworks and techniques that are used to guide marketing strategy decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.
In Person Learning Thu 2:30 p.m. - 4:00 p.m.

COMM_V 420-002 COMM_V 420 002 Marketing W2 Basic considerations affecting the domestic and international marketing of goods and services. Analytical frameworks and techniques that are used to guide marketing strategy decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.
In Person Learning Thu 3:30 p.m. - 5:00 p.m.

COMM_V 420-003 COMM_V 420 003 Marketing W1 Basic considerations affecting the domestic and international marketing of goods and services. Analytical frameworks and techniques that are used to guide marketing strategy decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.
In Person Learning Thu 4:00 p.m. - 5:30 p.m.

COMM_V 420-004 COMM_V 420 004 Marketing W2 Basic considerations affecting the domestic and international marketing of goods and services. Analytical frameworks and techniques that are used to guide marketing strategy decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.
In Person Learning Thu 5:30 p.m. - 7:00 p.m.

COMM_V 421-001 COMM_V 421 001 Introductory Finance W2 Introduces the basic principles of financial valuation, including the time value of money and the risk/return tradeoff. Develops tools for the quantitative analysis of corporate and/or individual financing and saving decisions, and of capital budgeting decisions. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading.
In Person Learning Tue 2:00 p.m. - 3:30 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credit</th>
<th>Title</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>COMM 431-001</td>
<td>3</td>
<td>Introductory Finance</td>
<td>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 financial decision-making. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue 1:30 p.m. - 3:00 p.m.</td>
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<tr>
<td>COMM 431-003</td>
<td>3</td>
<td>Introductory Finance</td>
<td>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 financial decision-making. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue 4:00 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>COMM 431-201</td>
<td>3</td>
<td>Law of Business Organizations and Corporate Governance</td>
<td>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 financial decision-making. For Master of Management - Dual Degree Option students only. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue 12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>COMM 433-201</td>
<td>3</td>
<td>Information Systems Analysis and Design</td>
<td>The process of information systems development; modern techniques and tools for systems analysis and design. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 335, CPSC 310. In Person Learning Thu 6:00 p.m. - 9:00 p.m.</td>
</tr>
<tr>
<td>COMM 436-101</td>
<td>3</td>
<td>Information Systems Analysis and Design</td>
<td>The process of information systems development; modern techniques and tools for systems analysis and design. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 335, CPSC 310. In Person Learning Wed 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>COMM 436-103</td>
<td>3</td>
<td>Information Systems Analysis and Design</td>
<td>The process of information systems development; modern techniques and tools for systems analysis and design. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 435, CPSC 310. In Person Learning Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>COMM 436-201</td>
<td>3</td>
<td>Information Systems Analysis and Design</td>
<td>The process of information systems development; modern techniques and tools for systems analysis and design. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 335, CPSC 310. In Person Learning Mon 3:30 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>COMM 437-101</td>
<td>3</td>
<td>Database Technology</td>
<td>Theory and technology of database management from an applications perspective; database design; database administration. Credit will be granted for only one of COMM 437, CSOE 437, CPSC 436 or CPSC 536. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 335. In Person Learning Wed 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>COMM 437-201</td>
<td>3</td>
<td>Database Technology</td>
<td>Theory and technology of database management from an applications perspective; database design; database administration. Credit will be granted for only one of COMM 437, CSOE 437, CPSC 436 or CPSC 536. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 335. In Person Learning Wed 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>COMM 437-202</td>
<td>3</td>
<td>Database Technology</td>
<td>Theory and technology of database management from an applications perspective; database design; database administration. Credit will be granted for only one of COMM 437, CSOE 437, CPSC 436 or CPSC 536. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 335. In Person Learning Wed 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>COMM 438-101</td>
<td>3</td>
<td>Management of Information Systems</td>
<td>Managerial issues in the administration of computerized information systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205. In Person Learning Wed 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>COMM 438-102</td>
<td>3</td>
<td>Management of Information Systems</td>
<td>Managerial issues in the administration of computerized information systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205. In Person Learning Wed 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>COMM 438-201</td>
<td>3</td>
<td>Management of Information Systems</td>
<td>Managerial issues in the administration of computerized information systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205. In Person Learning Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>COMM 438-202</td>
<td>3</td>
<td>Management of Information Systems</td>
<td>Managerial issues in the administration of computerized information systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205. In Person Learning Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>COMM 438-203</td>
<td>3</td>
<td>Management of Information Systems</td>
<td>Managerial issues in the administration of computerized information systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 205. In Person Learning Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>COMM 439-101</td>
<td>3</td>
<td>Business Telecommunications</td>
<td>Basic data communications concepts and technology; local area, wide area, and enterprise networks; the Internet, wireless networking; network development life cycle; network security and management. Credit will be granted for only one of COMM 439, CPSC 439, or CPSC 539. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 393. In Person Learning Mon 6:00 p.m. - 9:00 p.m.</td>
</tr>
<tr>
<td>COMM 439-101</td>
<td>3</td>
<td>Business Telecommunications</td>
<td>Basic data communications concepts and technology; local area, wide area, and enterprise networks; the Internet, wireless networking; network development life cycle; network security and management. Credit will be granted for only one of COMM 439, CPSC 439, or CPSC 539. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 393. In Person Learning Mon 6:00 p.m. - 9:00 p.m.</td>
</tr>
<tr>
<td>COMM 439-202</td>
<td>3</td>
<td>Business Telecommunications</td>
<td>Basic data communications concepts and technology; local area, wide area, and enterprise networks; the Internet, wireless networking; network development life cycle; network security and management. Credit will be granted for only one of COMM 439, CPSC 439, or CPSC 539. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 393. In Person Learning Mon 6:00 p.m. - 9:00 p.m.</td>
</tr>
<tr>
<td>COMM 443-101</td>
<td>3</td>
<td>Service Operations</td>
<td>Basic data communications concepts and technology; local area, wide area, and enterprise networks; the Internet, wireless networking; network development life cycle; network security and management. Credit will be granted for only one of COMM 439, CPSC 439, or CPSC 539. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 393. In Person Learning Mon 6:00 p.m. - 9:00 p.m.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Days</td>
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<tr>
<td>------------</td>
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<tr>
<td>COMM 443-102</td>
<td>COMM V 443-102 Service Operations</td>
<td>4.0</td>
<td>W1</td>
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<tr>
<td>COMM 443-110</td>
<td>COMM V 443-110 Service Operations</td>
<td>3.0</td>
<td>W1</td>
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<tr>
<td>COMM 443-201</td>
<td>COMM V 443-201 Service Operations</td>
<td>3.0</td>
<td>W2</td>
</tr>
<tr>
<td>COMM 443-202</td>
<td>COMM V 443-202 Service Operations</td>
<td>3.0</td>
<td>W2</td>
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<tr>
<td>COMM 444-101</td>
<td>COMM V 444-101 Air Transportation</td>
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<td>W1</td>
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<tr>
<td>COMM 444-201</td>
<td>COMM V 444-201 Air Transportation</td>
<td>1.0</td>
<td>W2</td>
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<tr>
<td>COMM 445-101</td>
<td>COMM V 445-101 Maritime and International Transportation</td>
<td>1.0</td>
<td>W2</td>
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<tr>
<td>COMM 450-101</td>
<td>COMM V 450-101 Financial Accounting: Intermediate II</td>
<td>3.0</td>
<td>W1</td>
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<tr>
<td>COMM 450-102</td>
<td>COMM V 450-102 Financial Accounting: Intermediate II</td>
<td>3.0</td>
<td>W1</td>
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<tr>
<td>COMM 450-103</td>
<td>COMM V 450-103 Financial Accounting: Intermediate II</td>
<td>3.0</td>
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<tr>
<td>COMM 450-201</td>
<td>COMM V 450-201 Financial Accounting: Intermediate II</td>
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<td>W2</td>
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<tr>
<td>COMM 452-101</td>
<td>COMM V 452-101 Taxes and Decision Making</td>
<td>1.0</td>
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<tr>
<td>COMM 452-201</td>
<td>COMM V 452-201 Taxes and Decision Making</td>
<td>1.0</td>
<td>W2</td>
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<tr>
<td>COMM 453-101</td>
<td>COMM V 453-101 Accounting for Management Control and Incentives</td>
<td>1.0</td>
<td>W1</td>
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<tr>
<td>COMM 453-201</td>
<td>COMM V 453-201 Accounting for Management Control and Incentives</td>
<td>1.0</td>
<td>W2</td>
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**Course Descriptions:**

- **Financial Accounting: Intermediate II**
  - This course is designed to cover service operations in general (25%), health care operations (25%), and revenue management (25%). Applications of queuing models will be included in both services in general and healthcare. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.

- **Supply Chain Management**
  - This course is designed to cover service operations in general (25%), health care operations (25%), and revenue management (25%). Applications of queuing models will be included in both services in general and healthcare. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.

- **Accounting for Management Control and Incentives**
  - This course is designed to cover service operations in general (25%), health care operations (25%), and revenue management (25%). Applications of queuing models will be included in both services in general and healthcare. This course is not eligible for Credit/D/Fail grading. Prerequisite: COMM 204.

- **Taxes and Decision Making**
  - This course is designed to cover service operations in general (25%), health care operations (25%), and revenue management (25%). Applications of queuing models will be included in both services in general and healthcare. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 204, ECON 201, ECON 301.

- **Integrated Management of Production and Logistics Systems**
  - This course is designed to cover service operations in general (25%), health care operations (25%), and revenue management (25%). Applications of queuing models will be included in both services in general and healthcare. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 204, ECON 201, ECON 301.

- **Project Management**
  - This course is designed to cover service operations in general (25%), health care operations (25%), and revenue management (25%). Applications of queuing models will be included in both services in general and healthcare. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 204, ECON 201, ECON 301.
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<thead>
<tr>
<th>Course Code</th>
<th>CRN</th>
<th>Type</th>
<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Prerequisite(s)</th>
<th>Location</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>COMM 463-210</td>
<td>454</td>
<td>202</td>
<td>Accounting for Management Control and Incentives</td>
<td>W2</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>Design of accounting systems for facilitating and influencing management decisions, with emphasis on performance evaluation in organizations. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>COMM 463-101</td>
<td>455</td>
<td>101</td>
<td>Principles of Auditing</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Principles of internal control, audit evidence, sampling and testing; audit reports; standards; responsibilities of the external auditor. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>COMM 463-102</td>
<td>455</td>
<td>202</td>
<td>Principles of Auditing</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Principles of internal control, audit evidence, sampling and testing; audit reports; standards; responsibilities of the external auditor. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>COMM 463-201</td>
<td>455</td>
<td>201</td>
<td>Principles of Auditing</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Principles of internal control, audit evidence, sampling and testing; audit reports; standards; responsibilities of the external auditor. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>COMM 463-210</td>
<td>455</td>
<td>202</td>
<td>Principles of Auditing</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>COMM 463-201</td>
<td>456</td>
<td>201</td>
<td>Financial Statement Analysis</td>
<td>W2</td>
<td>8:00 a.m. - 9:30 a.m.</td>
<td>Financial Statement Analysis</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<tr>
<td>COMM 463-202</td>
<td>456</td>
<td>202</td>
<td>Financial Statement Analysis</td>
<td>W2</td>
<td>8:00 a.m. - 9:30 a.m.</td>
<td>Financial Statement Analysis</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<tr>
<td>COMM 464-101</td>
<td>460</td>
<td>101</td>
<td>Social and Nonprofit Marketing</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Social and Nonprofit Marketing</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<tr>
<td>COMM 464-101</td>
<td>461</td>
<td>101</td>
<td>Business Development</td>
<td>W1</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>Business Development</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<td>COMM 464-201</td>
<td>462</td>
<td>201</td>
<td>Integrated Marketing Communication</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Integrated Marketing Communication</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<td>COMM 464-201</td>
<td>463</td>
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<td>Public Relations</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>Mon Wed</td>
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<td>COMM 464-101</td>
<td>464</td>
<td>101</td>
<td>Digital Marketing</td>
<td>W1</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>Digital Marketing</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<td>COMM 464-201</td>
<td>464</td>
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<td>Digital Marketing</td>
<td>W2</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>Digital Marketing</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<td>COMM 464-202</td>
<td>464</td>
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<td>Digital Marketing</td>
<td>W2</td>
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<td>In Person Learning</td>
<td>Mon Wed</td>
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<td>COMM 465-001</td>
<td>466</td>
<td>001</td>
<td>New Venture Design</td>
<td>W1-2</td>
<td>6:00 p.m. - 9:00 p.m.</td>
<td>New Venture Design</td>
<td>In Person Learning</td>
<td>Tue</td>
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<td>COMM 465-201</td>
<td>466</td>
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<td>New Venture Design</td>
<td>W2</td>
<td>6:00 p.m. - 9:00 p.m.</td>
<td>New Venture Design</td>
<td>In Person Learning</td>
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<td>COMM 467-101</td>
<td>467</td>
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<td>Branch Management</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>In Person Learning</td>
<td>Mon Wed</td>
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<td>COMM 467-201</td>
<td>467</td>
<td>201</td>
<td>Branch Management</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Branch Management</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<td>COMM 468-101</td>
<td>468</td>
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<td>Marketing Applications</td>
<td>W1</td>
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<td>Marketing Applications</td>
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<td>COMM 468-201</td>
<td>468</td>
<td>201</td>
<td>Marketing Applications</td>
<td>W2</td>
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<td>Marketing Applications</td>
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<td>COMM 468-202</td>
<td>468</td>
<td>202</td>
<td>Marketing Applications</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Marketing Applications</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<tr>
<td>COMM_V480-201</td>
<td>Marketing Applications</td>
<td>3</td>
<td>Applied marketing planning with emphasis on a major industrial analysis and the subsequent development of a detailed marketing plan for an operating organization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 362, COMM 363, COMM 365. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>COMM_V480-204</td>
<td>Marketing Applications</td>
<td>3</td>
<td>Applied marketing planning with emphasis on a major industrial analysis and the subsequent development of a detailed marketing plan for an operating organization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 362, COMM 363, COMM 365. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>COMM_V470-201</td>
<td>Venture Capital</td>
<td>3</td>
<td>Theory and evidence concerning venture capital markets. Contracting, fundraising, and financing choice covered in depth, with the aim of enabling students to raise money for entrepreneurial ventures or to invest in entrepreneurial ventures. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 370, COMM 387. In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>COMM_V470-202</td>
<td>Venture Capital</td>
<td>3</td>
<td>Theory and evidence concerning venture capital markets. Contracting, fundraising, and financing choice covered in depth, with the aim of enabling students to raise money for entrepreneurial ventures or to invest in entrepreneurial ventures. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 370, COMM 387. In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>COMM_V471-101</td>
<td>Mergers and Acquisitions</td>
<td>3</td>
<td>Mergers and acquisitions as a focal point in making important corporate decisions. 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.</td>
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<tr>
<td>COMM_V471-102</td>
<td>Mergers and Acquisitions</td>
<td>3</td>
<td>Mergers and acquisitions as a focal point in making important corporate decisions. 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.</td>
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<tr>
<td>COMM_V474-101</td>
<td>Fixed Income Markets and Management</td>
<td>3</td>
<td>Fixed-income instruments and derivatives, risk profiles, and their use in establishing fixed-income investment portfolios. Performance attribution techniques. This course is not eligible for Credit/D/Fail grading. Corequisite: COMM 276. In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>COMM_V474-201</td>
<td>Fixed Income Markets and Management</td>
<td>3</td>
<td>Fixed-income instruments and derivatives, risk profiles, and their use in establishing fixed-income investment portfolios. Performance attribution techniques. This course is not eligible for Credit/D/Fail grading. Corequisite: COMM 276. In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>COMM_V475-201</td>
<td>Investment Policy</td>
<td>3</td>
<td>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.</td>
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<tr>
<td>COMM_V475-102</td>
<td>Investment Policy</td>
<td>3</td>
<td>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.</td>
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<tr>
<td>COMM_V476-201</td>
<td>Advanced Topics in Investment Management</td>
<td>3</td>
<td>Applications of contemporary research, innovations, and technologies in the allocation of capital across asset classes, portfolios of assets, and individual securities. Empirical analyses of current market data using software and quantitative tools to implement potential investment and trading strategies. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of COMM 370, COMM 371. In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>COMM_V477-201</td>
<td>Risk Management and Financial Engineering</td>
<td>3</td>
<td>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 276. In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>COMM_V479-101</td>
<td>Advanced Topics in Corporate Finance</td>
<td>3</td>
<td>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.</td>
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<tr>
<td>COMM_V480-601</td>
<td>Co-operative Work Placement III</td>
<td>3</td>
<td>Approved and supervised work experience for a minimum of 16 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: All of COMM 304, COMM 305. In Person Learning Arranged Arranged</td>
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<tr>
<td>COMM_V480-602</td>
<td>Co-operative Work Placement III</td>
<td>3</td>
<td>Approved and supervised work experience for a minimum of 16 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: COMM 304, COMM 305. In Person Learning Arranged Arranged</td>
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<tr>
<td>COMM_V481-601</td>
<td>Co-operative Work Placement IV</td>
<td>3</td>
<td>Approved and supervised work experience for a minimum of 16 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: COMM 304, COMM 305. In Person Learning Arranged Arranged</td>
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<tr>
<td>COMM_V481-602</td>
<td>Co-operative Work Placement IV</td>
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<td>Approved and supervised work experience for a minimum of 16 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: COMM 304, COMM 305. In Person Learning Arranged Arranged</td>
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<tr>
<td>COMM_V482-201</td>
<td>New Product Development</td>
<td>3</td>
<td>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 482. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>COMM_V482-202</td>
<td>New Product Development</td>
<td>3</td>
<td>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 482. In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>COMM_V483-201</td>
<td>Leadership and General Management</td>
<td>3</td>
<td>Integration and application of business knowledge to make business decisions across disciplines. Development of personal leadership ability and style. Case-based with guest speakers. This course is not eligible for Credit/D/Fail grading. In Person Learning Sat Sun 8:00 a.m. - 9:00 p.m.</td>
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<tr>
<td>COMM_V484-201</td>
<td>Sustainability Marketing</td>
<td>3</td>
<td>Role of marketing in creating social value. Integration of marketing fundamentals with core social, environmental, and economic principles of sustainability. Analysis of current sustainability trends. Development of strategic and practical marketing recommendations for for-profit enterprises. Potential and pitfalls of sustainability marketing. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>COMM_V 485-101</td>
<td>Social Entrepreneurship</td>
<td>3</td>
<td>W1</td>
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<td>COMM_V 486-A_101</td>
<td>Special Topics in Business</td>
<td>2</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<td>COMM_V 486-E_101</td>
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<td>2</td>
<td>W1</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<td>2</td>
<td>W2</td>
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<td>W2</td>
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<td>COMM_V 486-L_101</td>
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<td>W1-2</td>
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<tr>
<td>COMM_V 486-O_101</td>
<td>Special Topics in Business</td>
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<td>W1</td>
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<td>COMM_V 486-T_101</td>
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<tr>
<td>COMM_V 486-T_102</td>
<td>Special Topics in Business</td>
<td>2</td>
<td>W1</td>
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<td>COMM_V 486-Y_101</td>
<td>Special Topics in Business</td>
<td>2</td>
<td>W1</td>
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<tr>
<td>COMM_V 489-201</td>
<td>Applied Methods in Technology Start-ups at CDL</td>
<td>2</td>
<td>W2</td>
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<td>COMM_V 490-A_101</td>
<td>Directed Studies in Commerce</td>
<td>2</td>
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<td>COMM_V 490-A_102</td>
<td>Directed Studies in Commerce</td>
<td>2</td>
<td>W1-2</td>
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<td>COMM_V 490-A_201</td>
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<td>2</td>
<td>W2</td>
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<tr>
<td>COMM_V 490-C_101</td>
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<td>2</td>
<td>W1</td>
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<tr>
<td>COMM_V 491-101</td>
<td>Strategic Management</td>
<td>2</td>
<td>W1</td>
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<td>COMM_V 491-102</td>
<td>Strategic Management</td>
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<td>COMM_V 491-103</td>
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<td>2</td>
<td>W1</td>
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COMM_V 491-104 COMM_V 491 104 Strategic Management W1 Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 395, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COMM 491. In Person Learning Mon Wed 3:30 p.m. – 5:00 p.m.

COMM_V 491-105 COMM_V 491 105 Strategic Management W1 Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 395, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COMM 491. In Person Learning Mon Wed 2:00 p.m. – 3:10 p.m.

COMM_V 491-106 COMM_V 491 106 Strategic Management W1 Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 395, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COMM 491. In Person Learning Mon Wed 1:30 p.m. – 3:00 p.m.

COMM_V 491-201 COMM_V 491 201 Strategic Management W2 Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 395, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COMM 491. In Person Learning Mon Wed 8:00 a.m. – 9:10 a.m.

COMM_V 491-202 COMM_V 491 202 Strategic Management W2 Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 395, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COMM 491. In Person Learning Mon Wed 9:30 a.m. – 11:00 a.m.

COMM_V 491-203 COMM_V 491 203 Strategic Management W2 Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 395, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COMM 491. In Person Learning Mon Wed 2:00 p.m. – 3:10 p.m.

COMM_V 491-204 COMM_V 491 204 Strategic Management W2 Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 395, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COMM 491. In Person Learning Mon Wed 3:30 p.m. – 5:00 p.m.

COMM_V 491-205 COMM_V 491 205 Strategic Management W2 Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 395, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COMM 491. In Person Learning Tue Thu 2:00 p.m. – 3:10 p.m.

COMM_V 491-206 COMM_V 491 206 Strategic Management W2 Concepts and processes for the strategic management of private sector, single and multi-business unit enterprises are analysed using the case method. Methodologies which draw on economic and organizational theory are integrated to form the foundations for strategic analyses. Credit will be granted for only one of COMM 491 or COEC 491. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 395, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COMM 491. In Person Learning Tue Thu 3:30 p.m. – 5:00 p.m.

COMM_V 497-101 COMM_V 497 101 New Enterprise Development W1 The particular problems and experiences encountered in starting, developing and managing new enterprises. The course includes lectures, guest speakers, and case studies. Credit will be granted for only one of COMM 497, COMM 466, COMM 497, COMM 497, APSC 466, or APSC 496. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 395, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COMM 497. In Person Learning Mon Wed 3:30 p.m. – 5:00 p.m.

COMM_V 497-201 COMM_V 497 201 New Enterprise Development W2 The particular problems and experiences encountered in starting, developing and managing new enterprises. The course includes lectures, guest speakers, and case studies. Credit will be granted for only one of COMM 497, COMM 466, COMM 497, COMM 497, APSC 466, or APSC 496. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) all of COMM 395, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COMM 497. In Person Learning Mon Wed 11:00 a.m. – 12:30 p.m.

COMM_V 498-101 COMM_V 498 101 International Business Management W1 Development of general environmental framework for international business studies by drawing on international and development economics, research into government-business relations and studies in comparative socio-cultural systems and political systems. Credit will be granted for only one of COMM 498 or COEC 498. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (b) all of COMM 395, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COMM 498. In Person Learning Tue Thu 9:30 a.m. – 11:10 a.m.

COMM_V 498-102 COMM_V 498 102 International Business Management W1 Development of general environmental framework for international business studies by drawing on international and development economics, research into government-business relations and studies in comparative socio-cultural systems and political systems. Credit will be granted for only one of COMM 498 or COEC 498. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (b) all of COMM 395, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COMM 498. In Person Learning Tue Thu 11:30 a.m. – 12:30 p.m.

COMM_V 498-201 COMM_V 498 201 International Business Management W2 Development of general environmental framework for international business studies by drawing on international and development economics, research into government-business relations and studies in comparative socio-cultural systems and political systems. Credit will be granted for only one of COMM 498 or COEC 498. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (b) all of COMM 395, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COMM 498. In Person Learning Mon Wed 2:00 p.m. – 3:10 p.m.

COMM_V 498-202 COMM_V 498 202 International Business Management W2 Development of general environmental framework for international business studies by drawing on international and development economics, research into government-business relations and studies in comparative socio-cultural systems and political systems. Credit will be granted for only one of COMM 498 or COEC 498. This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (b) all of COMM 395, COMM 395 or (b) COMM 396. Fourth-year standing. Equivalency: COMM 498. In Person Learning Tue Thu 8:00 a.m. – 9:10 a.m.
<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Week(s)</th>
<th>Description</th>
<th>Grading Options</th>
<th>Learning Mode</th>
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<tr>
<td>COMM_V 623-001</td>
<td>Qualitative Research Methods in Organizational Behaviour</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>
<td>COMM_V 625-A_001</td>
<td>Advanced Topics in Organizational Behaviour</td>
<td>W2</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>COMM_V 626-001</td>
<td>Advanced Topics in Organizational Theory</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>COMM_V 627-001</td>
<td>Advanced Behavioural Research Methods</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
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<tr>
<td>COMM_V 628-001</td>
<td>Organizational Studies Research 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>COMM_V 633-001</td>
<td>Modelling Methods in the Research and Practice of Information Systems</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. Pre-requisite: At least nine graduate course credits in information system topics.</td>
<td>In Person Learning</td>
<td>Mon Tue</td>
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<tr>
<td>COMM_V 634-001</td>
<td>Empirical Research Methods in Information Systems</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>COMM_V 634-003</td>
<td>Empirical Research Methods in Information Systems</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Wed Thu Fri</td>
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<tr>
<td>COMM_V 635-001</td>
<td>Advanced Topics in Management Information Systems</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu Fri</td>
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<tr>
<td>COMM_V 636-001</td>
<td>Advanced Topics in Transportation</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>COMM_V 636-002</td>
<td>Advanced Topics in Transportation</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed Thu Fri</td>
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<tr>
<td>COMM_V 649-001</td>
<td>Ph.D. 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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<td>COMM_V 649-002</td>
<td>Ph.D. 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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<td>COMM_V 649-003</td>
<td>Ph.D. 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>COMM_V 651-001</td>
<td>Analysis of Accounting Information in Markets</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon</td>
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<tr>
<td>COMM_V 654-001</td>
<td>Analysis of Accounting Information in Organizations</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Tue</td>
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<tr>
<td>COMM_V 655-001</td>
<td>Stock Market Inefficiencies</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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<td>COMM_V 657-001</td>
<td>Empirical Methods in Accounting Research</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
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<tr>
<td>COMM_V 659-001</td>
<td>Advanced Topics in Empirical Accounting Research</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Tue Wed Fri</td>
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<tr>
<td>COMM_V 660-001</td>
<td>Research Seminar in Marketing</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<td>COMM_V 661-001</td>
<td>Analytical Methods and Models in Marketing</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<tr>
<td>COMM_V 662-001</td>
<td>Buyer Behaviour</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<tr>
<td>COMM_V 662-002</td>
<td>Buyer Behaviour</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu Fri</td>
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Topics in Business I
9:00 a.m. - 12:00 p.m.

Advanced Topics in Strategy and Business Economics
This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 186

Advanced Topics in Theoretical Asset Pricing

Advanced Topics in Empirical Asset Pricing

Introduction to Business
An overview of all functional areas of business. Students will be introduced to the computer and internet tools commonly used in business. For non-Commerce students only. Credit will be granted for only one of COMM 110 or COMM 110A. Equivalency: COMM 110

Entrepreneurship
Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMM 280 or COMM 280A. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 280

Research Seminar in Finance Workshop

Research Seminar in Strategy and Business Economics

Applied Research in Business Economics and Strategy
An overview of all functional areas of business. Students will be introduced to the computer and internet tools commonly used in business. For non-Commerce students only. Credit will be granted for only one of COMM 110 or COMM 110A. Equivalency: COMM 110

Consumer Judgment and Decision Making

Theory of Finance

Advanced Topics in Theoretical Corporate Finance

Advanced Topics in Empirical Corporate Finance

Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMM 280 or COMM 280A. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 280

Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMM 280 or COMM 280A. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 280

Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMM 280 or COMM 280A. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 280

Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMM 280 or COMM 280A. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 280

Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMM 280 or COMM 280A. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 280

Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMM 280 or COMM 280A. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 280

Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMM 280 or COMM 280A. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 280

Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMM 280 or COMM 280A. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 280

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Entrepreneurial essentials from creating viable opportunities through building a founding team, strategic planning, going to market, fleshing out an organization and planning the future of the business. Credit will be granted for only one of COMM 280 or COMM 280A. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 280
COMR_V 280-103

COMR_V

280

103

Entrepreneurship

W1

COMR_V 280-104

COMR_V

280

104

Entrepreneurship

W1

COMR_V 280-201

COMR_V

280

201

Entrepreneurship

W2

COMR_V 280-202

COMR_V

280

202

Entrepreneurship

W2

COMR_V 329-101

COMR_V

329

101

Principles of Organizational Behaviour

W1

COMR_V 329-102

COMR_V

329

102

Principles of Organizational Behaviour

W1

COMR_V 329-103

COMR_V

329

103

Principles of Organizational Behaviour

W1

COMR_V 329-104

COMR_V

329

104

Principles of Organizational Behaviour

W1

COMR_V 329-201

COMR_V

329

201

Principles of Organizational Behaviour

W2

COMR_V 329-202

COMR_V

329

202

Principles of Organizational Behaviour

W2

COMR_V 329-203

COMR_V

329

203

Principles of Organizational Behaviour

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
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
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
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
An introductory examination of work organizations and the behaviour of individuals within them.
Phenomena to be studied include organizational structure, environments, group processes,
motivation and leadership (for non-Commerce students only). Not for students with credit for, or
exemption from, COMM 192, COMM 292, COMM 321, or COMM 329. This course is not eligible for
Credit/D/Fail grading. Equivalency: COMM 329
An introductory examination of work organizations and the behaviour of individuals within them.
Phenomena to be studied include organizational structure, environments, group processes,
motivation and leadership (for non-Commerce students only). Not for students with credit for, or
exemption from, COMM 192, COMM 292, COMM 321, or COMM 329. This course is not eligible for
Credit/D/Fail grading. Equivalency: COMM 329
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motivation and leadership (for non-Commerce students only). Not for students with credit for, or
exemption from, COMM 192, COMM 292, COMM 321, or COMM 329. This course is not eligible for
Credit/D/Fail grading. Equivalency: COMM 329

W2

Fundamental economic issues faced by entrepreneurs who want to commercialize innovations within
start-ups and established firms. Credit will be granted for only one of COMR 382 or COMM 382. This
course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310.
Corequisite: One of COMM 280, COMR 280. Equivalency: COMM382
In Person Learning

COMR_V 382-201

COMR_V

382

COMR_V 382-202

COMR_V

382

COMR_V 386-I_201

COMR_V

386

COMR_V 386-L_201

COMR_V

386

COMR_V 387-101

COMR_V 387-102

COMR_V 388-101

COMR_V 388-201

COMR_V

COMR_V

COMR_V

COMR_V

387

387

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388

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Economics of Entrepreneurship and Innovation

In Person Learning

Tue Thu

3:30 p.m. - 5:00 p.m.

In Person Learning

Tue Thu

10:30 a.m. - 12:00 p.m.

In Person Learning

Mon Wed

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

In Person Learning

Mon Wed

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

In Person Learning

Tue Thu

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

In Person Learning

Tue Thu

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

In Person Learning

Tue Thu

2:00 p.m. - 3:30 p.m.

In Person Learning

Arranged

Arranged

In Person Learning

Tue Thu

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

In Person Learning

Tue Thu

2:00 p.m. - 3:30 p.m.

Hybrid Learning

Thu

3:30 p.m. - 6:30 p.m.

Tue Thu

8:00 a.m. - 9:30 a.m.

Tue Thu

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

202

Economics of Entrepreneurship and Innovation

W2

Fundamental economic issues faced by entrepreneurs who want to commercialize innovations within
start-ups and established firms. Credit will be granted for only one of COMR 382 or COMM 382. This
course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310.
Corequisite: One of COMM 280, COMR 280. Equivalency: COMM382
In Person Learning

I

I_201

Topics in Business III

W2

This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 280, COMR 280.
Equivalency: COMM386

In Person Learning

Mon Wed

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

L

L_201

Topics in Business III

W2

This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 280, COMR 280.
Equivalency: COMM386

In Person Learning

Mon Wed

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

W1

Financial issues encountered by entrepreneurs and those active on the investing side of
entrepreneurship, such as working for banks, venture capital firms, or corporate venture
organizations, or anyone interacting with entrepreneurs and private equity investors. Credit will be
granted for only one of COMR 387, COEC 387, or COMM 387. This course is not eligible for
Credit/D/Fail grading. Corequisite: One of COMM 280, COMR 280. Equivalency: COEC387, COMM387 In Person Learning

Mon Wed

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

W1

Financial issues encountered by entrepreneurs and those active on the investing side of
entrepreneurship, such as working for banks, venture capital firms, or corporate venture
organizations, or anyone interacting with entrepreneurs and private equity investors. Credit will be
granted for only one of COMR 387, COEC 387, or COMM 387. This course is not eligible for
Credit/D/Fail grading. Corequisite: One of COMM 280, COMR 280. Equivalency: COEC387, COMM387 In Person Learning

Mon Wed

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

W1

Studio-based experience in thinking strategies and design processes applied to business innovation in
the private, public, and social sectors. Emphasis on problem solving, co-creation, and innovation for
external clients in a collaborative environment. Credit will be granted for only one of COMR 388 or
COMM 388. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 280,
COMR 280. Equivalency: COMM388
In Person Learning

Wed

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

W2

Studio-based experience in thinking strategies and design processes applied to business innovation in
the private, public, and social sectors. Emphasis on problem solving, co-creation, and innovation for
external clients in a collaborative environment. Credit will be granted for only one of COMR 388 or
COMM 388. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 280,
COMR 280. Equivalency: COMM388
In Person Learning

Wed

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

101

102

101

201

Entrepreneurial Finance and Private Equity

Entrepreneurial Finance and Private Equity

Design Methods for Business Innovation

Design Methods for Business Innovation


The role and importance of creativity in developing successful business solutions. Credit will be granted for only one of COMM 398 or COMM 458. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 253, COMM 280. Equivalency: COMM 457.

The design and management of systems that efficiently and effectively supply products and services to the end user. The concepts apply to a variety of settings such as manufacturing, logistics, healthcare, and others (for Non-Commerce students only). Not for students with credit for, or exemption from, COMM 298 or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 458.

Hybrid Learning

Arranged

In Person Learning

Arranged

Creative thinking, design, and implementation of new ideas and innovations on a business level. (For non-Commerce students only). Not for students with credit for, or exemption from, COMM 298 or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 458.

The design and management of systems that efficiently and effectively supply products and services to the end user. The concepts apply to a variety of settings such as manufacturing, logistics, healthcare, and others (for Non-Commerce students only). Not for students with credit for, or exemption from, COMM 298 or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 458.

In Person Learning

Arranged

Hybrid Learning

Arranged

Fundamentals of Managerial 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 298, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457.

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 298, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457.

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 298, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457.

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 298, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457.

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 298, COMM 320, or COMM 457. This course is not eligible for Credit/D/Fail grading. Equivalency: COMM 457.
null
A conceptual and practical introduction to the major areas of business strategy with an integrative perspective on managing a business. Includes the analysis of a business and its environment, the development and evaluation of strategic alternatives, and implementation of change (for non-Commerce students only in fourth year). Not for students with credit for, or exemption from, COMM 497 or COMM 498. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of COMM 293, COMM 497, COMM 498 and either (a) all of ECON 101, ECON 302 or (b) all of ECON 310, ECON 302 or all of ECON 310, ECON 320 or all of ECON 310, ECON 320, ECON 331 or all of ECON 310, ECON 331 or all of ECON 310, ECON 310. Co-operative: One of COMM 320, COMM 320 and one of COMM 465, COMM 460 and one of COMM 473, COMM 473. Equivalency: COMM497.

**In Person Learning**

Tu Th 5:00 p.m. - 6:30 p.m.

**In Person Learning**

Tue Thu 5:00 p.m. - 6:30 p.m.

**In Person Learning**

Tu Thu 3:30 p.m. - 5:00 p.m.

**In Person Learning**

W2 11:00 a.m. - 12:00 p.m.

**In Person Learning**

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

**In Person Learning**

W1

311 or (c) ECON 100 or (d) all of ECON 101, ECON 311 or (e) all of ECON 102, ECON 310. Co-operative: One of COMM 320, COMM 320 and one of COMM 465, COMM 460 and one of COMM 473, COMM 473. Equivalency: COMM497.

**In Person Learning**

Tu Th 8:00 a.m. - 9:30 a.m.

**In Person Learning**

Tu Th 8:30 a.m. - 11:00 a.m.

**In Person Learning**

Tue Thu 3:30 p.m. - 5:00 p.m.

**In Person Learning**

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

**In Person Learning**

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

**In Person Learning**

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

**In Person Learning**

Mon Wed 3:00 p.m. - 4:30 p.m.

**In Person Learning**

Mon Thu 3:00 p.m. - 4:30 p.m.

**In Person Learning**

Mon Wed 3:00 p.m. - 4:30 p.m.

**In Person Learning**

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

**In Person Learning**

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

**In Person Learning**

Mon Thu 9:30 a.m. - 10:30 a.m.

**In Person Learning**

In Person Learning

200 082 202 Foundations of Conservation

Conceptual/Foundations of conservation; means of conserving nature and natural resources. [3-0-0] Prerequisite: One of COMM 329, COMM 329 and one of COMM 465, COMM 485 and one of COMM 473, COMM 473. Equivalency: COMM497.

**In Person Learning**

In Person Learning

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

**In Person Learning**

Mon Wed Fri 3:00 p.m. - 4:30 p.m.

**In Person Learning**

In Person Learning

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

**In Person Learning**

Mon Thu 9:30 a.m. - 10:30 a.m.

**In Person Learning**

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

**In Person Learning**

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

**In Person Learning**

Mon Wed 3:00 p.m. - 4:30 p.m.
Elements of Biodiversity

The units of biodiversity, from genes to ecosystems, how they are structured in space, and their importance to humans and ecosystem health. (3-0-0) Prerequisite: One of ARBI 200, BIOL 101, FRST 201, MATH 100, GEOS 102. Credit will be granted for only one of FRST 314, BIOL 314.

Conservation Science and Sustainability

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 BIOL 101, FRST 101, MATH 100, GEOS 102, GEOS 103. Second-year standing required.

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.

Indigenous Forestry

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] or [FRST 300].

Sustainable Energy: Policy and Governance

Energy as a global policy problem; current energy challenges; energy systems and energy analysis; the politics and policy of energy alternatives. (3-0-0) Prerequisite: Third- or fourth-year standing; 100-level MATH course.

Conservation Decision-Making and Policy

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] or [FRST 300].

Integrated Field School

Field methods, research and analysis, community-oriented projects, and the interactions between biological and social aspects of conservation research. Students may not take any other courses in conjunction with CONS 451. Restricted to B.Sc. in Natural Resources Conservation students in the fourth year of the Science and Management Major or B.Sc. in Natural Resources students in the fourth year of the Science and Management Specialization of the Conservation Major. This course is not eligible for Credit/D/Fail grading. (10-10-10) Prerequisite: All of CONS 101, CONS 240, CONS 440, CONS 441, FRST 302, FRST 306, FRST 307.

Global Perspectives: Capstone

Theory, tools and practical skills needed to conduct conservation planning at the community level. Address issues of developing and implementing plans in the context of sustainability goals, political realities and diverse public opinion. (3-0-0)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Credits</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONS V 481-101</td>
<td>Conservation Planning in Practice</td>
<td>W1</td>
<td>3-0-0</td>
<td>In Person Learning</td>
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<tr>
<td>CONS V 481-102</td>
<td>Conservation Planning in Practice</td>
<td>W1</td>
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<tr>
<td>CONS V 481-103</td>
<td>Conservation Planning in Practice</td>
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<tr>
<td>CONS V 486-201</td>
<td>Fish Conservation and Management</td>
<td>W2</td>
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<td>Fish Conservation and Management</td>
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<td>W1</td>
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In Person Learning
Computing Systems I
8:00 a.m. - 10:00 a.m.
Software Construction I
Computing Systems I
2:00 p.m. - 4:00 p.m.

In Person Learning
Computing Systems II
Wed
A
W1
L1A
8:00 a.m. - 10:00 a.m.
Wed
Software Construction I
In Person Learning
In Person Learning
Software Construction I
Computing Systems I
W1
221
A_T1A
Computing Systems II
W1
W1
528
201
W1
In Person Learning
Software Construction I
1:30 p.m. - 3:30 p.m.

In Person Learning
Computing Systems II
Wed
Social Science Research Methods and Design for Natural Resource Management
CPEN_V
211
L1D
4:00 p.m. - 6:00 p.m.
L2B
2:00 p.m. - 4:00 p.m.
A_L1A
11:00 a.m. - 1:00 p.m.
CPEN_V
Computing Systems I
L1C
In Person Learning
T1A
W2
Computing Systems I
L1B
A
CPEN_V
1:00 p.m. - 3:00 p.m.
W1
211
A_L1C
CPEN_V
221-A_T1A
CPEN_V 221-A_L1C
CPEN_V 221-A_L1B
CPEN_V 212-L2B
CPEN_V 211-L1E
CPEN_V 211-L1C
CPEN_V 211-L1B
CONS_V 528-201
APSC 160.
software, testing, verification, abstract data types, object-oriented design, type hierarchies,
Design, implementation, reasoning about software systems: abstraction and specification of
APSC 160.
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<p>| CRDN_V | 221-A_T1B | CRDN_V | 221-A_T1B | Software Construction I | W1 | 12:00 p.m. - 3:00 p.m. | 12:00 p.m. - 3:00 p.m. | 201. | 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: CPEN 180. | In Person Learning | Wed | 5:00 p.m. - 6:10 p.m. |
| CRDN_V | 221-B_101 | CRDN_V | 221-B_101 | Software Construction I | W1 | Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2] Prerequisite: CPEN 180. | In Person Learning | Tue | 11:00 a.m. - 12:10 p.m. |
| CRDN_V | 221-B_L1A | CRDN_V | 221-B_L1A | Software Construction I | W1 | Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2] Prerequisite: CPEN 180. | In Person Learning | Fri | 2:00 p.m. - 4:00 p.m. |
| CRDN_V | 221-B_L1B | CRDN_V | 221-B_L1B | Software Construction I | W1 | Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2] Prerequisite: CPEN 180. | In Person Learning | Wed | 1:00 p.m. - 3:00 p.m. |
| CRDN_V | 221-B_L1C | CRDN_V | 221-B_L1C | Software Construction I | W1 | Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2] Prerequisite: CPEN 180. | In Person Learning | Mon | 2:00 p.m. - 4:00 p.m. |
| CRDN_V | 221-B_L1A | CRDN_V | 221-B_L1A | Software Construction I | W1 | Design, implementation, reasoning about software systems: abstraction and specification of software, testing, verification, abstract data types, object-oriented design, type hierarchies, concurrent software design. This course is not eligible for Credit/D/Fail grading. [3-2-2] Prerequisite: CPEN 180. | In Person Learning | Mon | 2:00 p.m. - 4:00 p.m. |
| CRDN_V | 223-101 | CRDN_V | 223-101 | Software Design for Engineers I | W1 | Introduction to robust software design: static typing, procedural specifications, unit testing, black-box &amp; 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. [3-3-0] Prerequisite: CPEN 180. | In Person Learning | Mon | 1:00 p.m. - 3:00 p.m. |
| CRDN_V | 223-11A | CRDN_V | 223-11A | Software Design for Engineers I | W1 | Introduction to robust software design: static typing, procedural specifications, unit testing, black-box &amp; 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. [3-3-0] Prerequisite: CPEN 180. | In Person Learning | Tue | 3:00 p.m. - 5:00 p.m. |
| CRDN_V | 223-11B | CRDN_V | 223-11B | Software Design for Engineers I | W1 | Introduction to robust software design: static typing, procedural specifications, unit testing, black-box &amp; 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. [3-3-0] Prerequisite: CPEN 180. | In Person Learning | Tue | 3:00 p.m. - 5:00 p.m. |
| CRDN_V | 223-11C | CRDN_V | 223-11C | Software Design for Engineers I | W1 | Introduction to robust software design: static typing, procedural specifications, unit testing, black-box &amp; 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. [3-3-0] Prerequisite: CPEN 180. | In Person Learning | Mon | 10:00 a.m. - 12:30 p.m. |
| CRDN_V | 280-101 | CRDN_V | 280-101 | Technical Communication | W1 | Written and oral communication in engineering. Technical description, report preparation, business correspondence, and presentation of technical material. Restricted to students in second year of Electrical and Computer Engineering programs. Credit will be granted for only one of ELEC 281, CPEN 281, BENG 201 or APSC 201. This course is not eligible for Credit/D/Fail grading. [1-0-1] Prerequisite: One of APSC 176, 178, ENGL 110, 111, 112, ENG 120, 121, WRDS 150. | In Person Learning | Mon Wed Fri | 1:00 p.m. - 2:00 p.m. |
| CRDN_V | 280-102 | CRDN_V | 280-102 | Technical Communication | W1 | Written and oral communication in engineering. Technical description, report preparation, business correspondence, and presentation of technical material. Restricted to students in second year of Electrical and Computer Engineering programs. Credit will be granted for only one of ELEC 281, CPEN 281, BENG 201 or APSC 201. This course is not eligible for Credit/D/Fail grading. [1-0-1] Prerequisite: One of APSC 176, 178, ENGL 110, 111, 112, ENG 120, 121, WRDS 150. | In Person Learning | Mon Wed Fri | 11:00 a.m. - 12:10 p.m. |
| CRDN_V | 280-103 | CRDN_V | 280-103 | Technical Communication | W1 | Written and oral communication in engineering. Technical description, report preparation, business correspondence, and presentation of technical material. Restricted to students in second year of Electrical and Computer Engineering programs. Credit will be granted for only one of ELEC 281, CPEN 281, BENG 201 or APSC 201. This course is not eligible for Credit/D/Fail grading. [1-0-1] Prerequisite: One of APSC 176, 178, 110, 111, 112, ENG 120, 121, WRDS 150. | In Person Learning | Mon Wed Fri | 2:00 p.m. - 3:00 p.m. |
| CRDN_V | 280-201 | CRDN_V | 280-201 | Computer Engineering Design Studio I | W2 | Design projects involving hardware (electronic devices and circuits, microcomputers) and software. This course is not eligible for Credit/D/Fail grading. [2-4-2] Prerequisite: CPEN 211. Computer: ELEC 281. | In Person Learning | Arranged | Arranged |
| CRDN_V | 280-12A | CRDN_V | 280-12A | 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. [2-4-2] Prerequisite: CPEN 211. Computer: ELEC 281. | In Person Learning | Arranged | Arranged |
| CRDN_V | 280-12B | CRDN_V | 280-12B | Computer Engineering Design Studio I | W2 | Design projects involving hardware (electronic devices and circuits, microcomputers) and software. This course is not eligible for Credit/D/Fail grading. [2-4-2] Prerequisite: CPEN 211. Computer: ELEC 281. | In Person Learning | Arranged | Arranged |
| CRDN_V | 311-101 | CRDN_V | 311-101 | Digital Systems Design | W1 | Advanced combinational and sequential electronic system design. Hardware specification, modeling, and simulation using hardware description languages (HDLs) and CAD tools. Design with programmatic logic including FSFGs. Applications include complex state machines, microcontrollers, arithmetic circuits, and interface units. This course is not eligible for Credit/D/Fail grading. [3-1-2] Prerequisite: One of CPEN 211, CPEN 311. | In Person Learning | Tue | 11:00 a.m. - 12:10 p.m. |
| CRDN_V | 311-102 | CRDN_V | 311-102 | Digital Systems Design | W1 | Advanced combinational and sequential electronic system design. Hardware specification, modeling, and simulation using hardware description languages (HDLs) and CAD tools. Design with programmatic logic including FSFGs. Applications include complex state machines, microcontrollers, arithmetic circuits, and interface units. This course is not eligible for Credit/D/Fail grading. [3-1-2] Prerequisite: One of CPEN 211, CPEN 311. | In Person Learning | Tue | 2:00 p.m. - 4:00 p.m. |
| CRDN_V | 311-11A | CRDN_V | 311-11A | Digital Systems Design | W1 | Advanced combinational and sequential electronic system design. Hardware specification, modeling, and simulation using hardware description languages (HDLs) and CAD tools. Design with programmatic logic including FSFGs. Applications include complex state machines, microcontrollers, arithmetic circuits, and interface units. This course is not eligible for Credit/D/Fail grading. [3-1-2] Prerequisite: One of CPEN 211, CPEN 311. | In Person Learning | Tue | 8:00 a.m. - 10:10 a.m. |</p>
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**Software Construction II**

- **W1**
  - In Person Learning
  - 8:00 a.m. - 11:00 a.m.

- **W2**
  - In Person Learning
  - 1:00 p.m. - 3:00 p.m.

**Digital Systems and Microcomputers**

- **L2D**
  - In Person Learning
  - 2:00 p.m. - 3:30 p.m.
  - 5:00 p.m. - 7:00 p.m.

**Software Construction II**

- **L2D**
  - In Person Learning
  - 3:00 p.m. - 5:00 p.m.

**Digital Systems and Microcomputers**

- **L2D**
  - In Person Learning
  - 8:30 a.m. - 10:30 a.m.

**Digital Systems and Microcomputers**

- **L2D**
  - In Person Learning
  - 1:00 p.m. - 3:00 p.m.
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 one of CPSC 310, CPEN 311. This course is not eligible for Credit/D/Fail grading. (3-2-0) Prerequisite: CPEN 221.

Software Design for Engineers II 11A

Prerequisite: All of CPEN 221, CPSC 221.

Server architectures; session-oriented systems; security and scalability; models of application deployment. This course is not eligible for Credit/D/Fail grading. (3-2-0) Corequisite: CPEN 322.

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Corequisite: CPEN 322.

Corequisite: CPEN 322.

Corequisite: CPEN 322.

Requirements specification, software architecture, implementation, verification, and maintenance. Iterative development. Recognized standards, guidelines, and models. Credit will only be granted for one of CPSC 310, CPEN 311. This course is not eligible for Credit/D/Fail grading. (3-2-0) Prerequisite: All of CPEN 221, CPSC 221.

Operating systems, their design and their implementation. Process concurrency, synchronization, communication and scheduling. Device drivers, memory management, virtual memory, file systems, networking and security. (3-3-0) Prerequisite: CPEN 212 and CPEN 221.

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.

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.

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.

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.

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.

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.

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.

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.

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.
CPEN 333-B_201 CPEN 333 B B_201 Software Design for Engineers II W2 Use of operating systems abstractions: next-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. [3-0-2] Prerequisite: One of CPSC 256, CPEN 223.
In Person Learning Fri 3:00 p.m. - 5:00 p.m.

CPEN 333-B_21A CPEN 333 B B_21A Software Design for Engineers II W1 Use of operating systems abstractions: next-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. [3-0-2] Prerequisite: One of CPSC 256, CPEN 223.
In Person Learning Arranged Arranged

CPEN 333-B_21B CPEN 333 B B_21B Software Design for Engineers II W1 Use of operating systems abstractions: next-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. [3-0-2] Prerequisite: One of CPSC 256, CPEN 223.
In Person Learning Arranged Arranged

CPEN 333-B_21C CPEN 333 B B_21C Software Design for Engineers II W2 Use of operating systems abstractions: next-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. [3-0-2] Prerequisite: One of CPSC 256, CPEN 223.
In Person Learning Sat 11:00 a.m. - 1:00 p.m.

CPEN 355-101 CPEN 355 101 Machine Learning with Engineering Applications W1 Foundations and concepts of data science and machine learning with applications to engineering problems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 152, MATH 221 and one of MATH 208, MATH 209, STAT 212, STAT 240, ECE 305 and one of CPEN 221, CPEN 233, CPSC 256.
In Person Learning Fri 11:00 a.m. - 12:00 p.m.

CPEN 355-201 CPEN 355 201 Machine Learning with Engineering Applications W2 Foundations and concepts of data science and machine learning with applications to engineering problems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 152, MATH 221 and one of MATH 208, MATH 209, STAT 212, STAT 240, ECE 305 and one of CPEN 221, CPEN 233, CPSC 256.
In Person Learning Mon Wed Fri 1:00 p.m. - 2:00 p.m.

CPEN 355-T1A CPEN 355 T1A Machine Learning with Engineering Applications W1 Foundations and concepts of data science and machine learning with applications to engineering problems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 152, MATH 221 and one of MATH 208, MATH 209, STAT 212, STAT 240, ECE 305 and one of CPEN 221, CPEN 233, CPSC 256.
In Person Learning Mon 2:00 p.m. - 3:00 p.m.

CPEN 355-T2A CPEN 355 T2A Machine Learning with Engineering Applications W2 Foundations and concepts of data science and machine learning with applications to engineering problems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 152, MATH 221 and one of MATH 208, MATH 209, STAT 212, STAT 240, ECE 305 and one of CPEN 221, CPEN 233, CPSC 256.
In Person Learning Mon 2:00 p.m. - 3:00 p.m.

CPEN 380-101 CPEN 380 101 Computer Engineering Design Studio I W1 Design and implementation of a hardware platform and software design and implementation at the operating system and application layers. Project management skills. Effective presentations. Going-forward, credit will be given for only one of CPEN291, CPEN391. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: All of CPEN 212, CPSC 221, CPEN 223, CPSC 259.
In Person Learning Fri 9:00 a.m. - 11:00 a.m.

CPEN 380-201 CPEN 380 201 Computer Engineering Design Studio I W2 Design and implementation of a hardware platform and software design and implementation at the operating system and application layers. Project management skills. Effective presentations. Going-forward, credit will be given for only one of CPEN291, CPEN391. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: All of CPEN 212, CPSC 221, CPEN 223, CPSC 259.
In Person Learning Mon 10:00 a.m. - 12:00 p.m.

CPEN 381-11A CPEN 381 11A Computer Engineering Design Studio II W1 Design and implementation of a hardware platform and software design and implementation at the operating system and application layers. Project management skills. Effective presentations. Going-forward, credit will be given for only one of CPEN291, CPEN391. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: All of CPEN 212, CPSC 221, CPEN 223, CPSC 259.
In Person Learning Tue Thu 4:00 p.m. - 7:00 p.m.

CPEN 381-21A CPEN 381 21A Computer Engineering Design Studio II W2 Design and implementation of a hardware platform and software design and implementation at the operating system and application layers. Project management skills. Effective presentations. Going-forward, credit will be given for only one of CPEN291, CPEN391. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: All of CPEN 212, CPSC 221, CPEN 223, CPSC 259.
In Person Learning Tue Thu 11:00 a.m. - 2:00 p.m.

CPEN 381-21B CPEN 381 21B Computer Engineering Design Studio II W2 Design and implementation of a hardware platform and software design and implementation at the operating system and application layers. Project management skills. Effective presentations. Going-forward, credit will be given for only one of CPEN291, CPEN391. This course is not eligible for Credit/D/Fail grading. [2-6-0] Prerequisite: All of CPEN 212, CPSC 221, CPEN 223, CPSC 259.
In Person Learning Tue Thu 2:00 p.m. - 5:00 p.m.

CPEN 400-Q_207 CPEN 400 Q Q_207 Topics in Computer Engineering W2 Lectures or projects on subjects of current interest. In Person Learning Mic Wed 3:00 p.m. - 4:10 p.m.

CPEN 400-Q_21A CPEN 400 Q Q_21A Topics in Computer Engineering W2 Lectures or projects on subjects of current interest. In Person Learning Arranged Arranged

CPEN 400-Q_21B CPEN 400 Q Q_21B Topics in Computer Engineering W2 Lectures or projects on subjects of current interest. In Person Learning Arranged Arranged

CPEN 411-201 CPEN 411 201 Computer Architecture W1 Modern processors, GPUs, and memory hierarchies; quantitative principles and instruction set design; pipelining, superscalar issue, out of order execution, branch prediction and speculation; memory hierarchies, caches, virtual addressing, prefetching, coherence, and consistency; multicore and on-chip networks, and other advanced architectures. Credit will be granted for one of CPSC 411, CPEN 411. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPSC 212, CPEN 211, CPEN 221.
In Person Learning Mon 3:30 p.m. - 5:00 p.m.

CPEN 411-21A CPEN 411 21A Computer Architecture W1 Modern processors, GPUs, and memory hierarchies; quantitative principles and instruction set design; pipelining, supercalar issue, out of order execution, branch prediction and speculation; memory hierarchies, caches, virtual addressing, prefetching, coherence, and consistency; multicore and on-chip networks, and other advanced architectures. Credit will be granted for one of CPSC 411, CPEN 411. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPSC 212, CPEN 211, CPEN 221.
In Person Learning Wed 8:00 a.m. - 10:00 a.m.

CPEN 412-101 CPEN 412 101 Microcomputer Systems Design W1 Microprocessor and system buses; advanced (IO) methods; priority interrupts; event/exception handling; serial (SCI); computer networking; memory system design; interaction of hardware and software, processor memory cache, testing issues, safety critical systems. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: CPEN 411 and one of CPEN 211, CPEN 212.
In Person Learning Wed Fri 12:00 p.m. - 1:30 p.m.
| CRN  | 432-102  | CPEN  | 432  | T22 | Microprocessor Systems Design | W1 | Microprocessor and systems busses; advanced GDD methods; priority interrupts; event/exception handling; vital GDD methods; computer networking; memory system design; interaction of hardware and software, microprocessor components, testability issues, safety critical systems. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPEN 331 and one of CPEN 211, CPEN 312. | In Person Learning | Mon Wed | 12:00 p.m. - 2:00 p.m. |
| CRN  | 432-201  | CPEN  | 432  | 201 | Microprocessor Systems Design | W2 | Microprocessor and systems busses; advanced GDD methods; priority interrupts; event/exception handling; vital GDD methods; computer networking; memory system design; interaction of hardware and software, microprocessor components, testability issues, safety critical systems. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPEN 331 and one of CPEN 211, CPEN 312. | In Person Learning | Wed | 11:00 a.m. - 12:30 p.m. |
| CRN  | 432-21A  | CPEN  | 432  | 21A | Microprocessor Systems Design | W2 | Microprocessor and systems busses; advanced GDD methods; priority interrupts; event/exception handling; vital GDD methods; computer networking; memory system design; interaction of hardware and software, microprocessor components, testability issues, safety critical systems. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPEN 331 and one of CPEN 211, CPEN 312. | In Person Learning | Fri | 12:00 p.m. - 2:00 p.m. |
| CRN  | 431-201  | CPEN  | 412  | 101 | Gate-Model Quantum Computing | W2 | A software-based introduction to gatemodel quantum computing algorithms: Basic elements of quantum computation; analysis and software implementation of gatemodel algorithms, Shor's algorithm, quantum compilation, variational algorithms, Hamiltonian simulations, noise characterization. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of CPEN 221, CPEN 323, CPSC 231, CPSC 313, one of CPSC 112, CPSC 221, CPSC 223. | In Person Learning | Mon | Arranged |
| CRN  | 431-202  | CPEN  | 431  | 201 | Software Testing and Analysis | W2 | Software testing and analysis: traditional vs. modern software engineering approaches; software testing as a discipline; testing concepts; testing fundamentals; testability issues; testability assessment; methods and tools; requirements traceability; communication; software testing process; software testing techniques; software testing strategies; testing early vs. late; test generation; test case construction; test strategy selection; test results analysis; software testing metrics; software testing process and organization; software testing education. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPEN 221, CPEN 331. | In Person Learning | Tue Thu | 9:30 a.m. - 11:00 a.m. |
| CRN  | 431-21A  | CPEN  | 412  | 21A | Software Testing and Analysis | W2 | Software testing and analysis: traditional vs. modern software engineering approaches; software testing as a discipline; testing concepts; testing fundamentals; testability issues; testability assessment; methods and tools; requirements traceability; communication; software testing process; software testing techniques; software testing strategies; testing early vs. late; test generation; test case construction; test strategy selection; test results analysis; software testing metrics; software testing process and organization; software testing education. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPEN 221, CPEN 331. | In Person Learning | Fri | 2:00 p.m. - 4:00 p.m. |
| CRN  | 431-21B  | CPEN  | 431  | 21B | Design of Software Applications | W2 | Design of Distributed Software Applications: communication, processes, routing, synchronization, consistency and replication, fault tolerance, middleware, and security technologies for distributed applications. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of CPEN 331, CPSC 313 and one of CPEN 221, CPEN 231. | In Person Learning | Mon Wed | 11:00 a.m. - 12:30 p.m. |
| CRN  | 431-22A  | CPEN  | 412  | 22A | Design of Software Applications | W2 | Design of Distributed Software Applications: communication, processes, routing, synchronization, consistency and replication, fault tolerance, middleware, and security technologies for distributed applications. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of CPEN 331, CPSC 313 and one of CPEN 221, CPEN 231. | In Person Learning | Mon | 1:00 p.m. - 4:00 p.m. |
| CRN  | 431-22B  | CPEN  | 431  | 22B | Real-time System Design | W1 | Multi-tasking, interrupt-driven systems; task scheduling; schedulability analysis; inter-process communication and synchronization; resource management; performance measurement; hardware/software integration; firmware/software tradeoffs; system reliability. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of CPEN 331, CPEN 313. | In Person Learning | Mon | 10:30 a.m. - 12:00 a.m. |
| CRN  | 441-101  | CPEN  | 441  | 101 | Human-Computer Interfaces in Engineering Design | W1 | Human-Computer Interfaces in Engineering Design: practical issues for interfaces for modern software. Task analysis, user modeling, usability engineering, representations, metaphors, prototyping tools. Applications: interactive multimedia systems, engineering, scientific visualizations, engineering design. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPSC 221 and one of CPEN 221, CPSC 210, CPEN 333. | In Person Learning | Mon Wed | 12:00 p.m. - 2:00 p.m. |
| CRN  | 441-102  | CPEN  | 441  | 102 | Human-Computer Interfaces in Engineering Design | W2 | Human-Computer Interfaces in Engineering Design: practical issues for interfaces for modern software. Task analysis, user modeling, usability engineering, representations, metaphors, prototyping tools. Applications: interactive multimedia systems, engineering, scientific visualizations, engineering design. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPSC 221 and one of CPEN 221, CPSC 210, CPEN 333. | In Person Learning | Thu | 11:00 a.m. - 1:00 p.m. |
| CRN  | 441-201  | CPEN  | 441  | 201 | Human-Computer Interfaces in Engineering Design | W2 | Human-Computer Interfaces in Engineering Design: practical issues for interfaces for modern software. Task analysis, user modeling, usability engineering, representations, metaphors, prototyping tools. Applications: interactive multimedia systems, engineering, scientific visualizations, engineering design. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPSC 221 and one of CPEN 221, CPSC 210, CPEN 333. | In Person Learning | Thu | 5:30 p.m. - 8:30 p.m. |
| CRN  | 441-21A  | CPEN  | 441  | 21A | Human-Computer Interfaces in Engineering Design | W1 | Human-Computer Interfaces in Engineering Design: practical issues for interfaces for modern software. Task analysis, user modeling, usability engineering, representations, metaphors, prototyping tools. Applications: interactive multimedia systems, engineering, scientific visualizations, engineering design. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPSC 221 and one of CPEN 221, CPSC 210, CPEN 333. | In Person Learning | Arranged | Arranged |
| CRN  | 441-21B  | CPEN  | 441  | 21B | Human-Computer Interfaces in Engineering Design | W2 | Human-Computer Interfaces in Engineering Design: practical issues for interfaces for modern software. Task analysis, user modeling, usability engineering, representations, metaphors, prototyping tools. Applications: interactive multimedia systems, engineering, scientific visualizations, engineering design. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPSC 221 and one of CPEN 221, CPSC 210, CPEN 333. | In Person Learning | Arranged | Arranged |
| CRN  | 441-22A  | CPEN  | 441  | 22A | Human-Computer Interfaces in Engineering Design | W2 | Human-Computer Interfaces in Engineering Design: practical issues for interfaces for modern software. Task analysis, user modeling, usability engineering, representations, metaphors, prototyping tools. Applications: interactive multimedia systems, engineering, scientific visualizations, engineering design. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPSC 221 and one of CPEN 221, CPSC 210, CPEN 333. | In Person Learning | Arranged | Arranged |
| CRN  | 441-22B  | CPEN  | 441  | 22B | Human-Computer Interfaces in Engineering Design | W2 | Human-Computer Interfaces in Engineering Design: practical issues for interfaces for modern software. Task analysis, user modeling, usability engineering, representations, metaphors, prototyping tools. Applications: interactive multimedia systems, engineering, scientific visualizations, engineering design. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPSC 221 and one of CPEN 221, CPSC 210, CPEN 333. | In Person Learning | Thu | 8:00 p.m. - 10:00 p.m. |
| CRN  | 441-23A  | CPEN  | 441  | 23A | Human-Computer Interfaces in Engineering Design | W1 | Human-Computer Interfaces in Engineering Design: practical issues for interfaces for modern software. Task analysis, user modeling, usability engineering, representations, metaphors, prototyping tools. Applications: interactive multimedia systems, engineering, scientific visualizations, engineering design. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: CPSC 221 and one of CPEN 221, CPSC 210, CPEN 333. | In Person Learning | Thu | 8:30 p.m. - 10:30 p.m. |
In Person Learning

W1

Introduction to Cybersecurity

Security risks, threats, and vulnerabilities from technical perspectives; cryptography; software and web security; access control; assurance, accountability, usable privacy and security; engineering of secure systems; cryoprocryptography. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of CPEN 331, CPEN 333, CPSC 313.

In Person Learning

Mon Wed

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

W2

Introduction to Cybersecurity

Security risks, threats, and vulnerabilities from technical perspectives; cryptography; software and web security; access control; assurance, accountability, usable privacy and security; engineering of secure systems; cryoprocryptography. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: Use of CPEN 333, CPEN 331, CPSC 313.

In Person Learning

Arranged

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

W2

Introduction to Cybersecurity

Security risks, threats, and vulnerabilities from technical perspectives; cryptography; software and web security; access control; assurance, accountability, usable privacy and security; engineering of secure systems; cryoprocryptography. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: Use of CPEN 333, CPEN 331, CPSC 313.

In Person Learning

Arranged

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

W2

Deep Learning

Fundamentals of deep learning, including architectures (e.g., MLPs, CNNs, RNNs, Transformers, and GNNs) and learning algorithms under different paradigms (supervised / unsupervised / reinforcement learning). Emphasis on design principles and motivating applications. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of MATH 311, MATH 221 and one of MATH 318, MATH 302, STAT 321, ELEC 321 and one of CPEN 211, CPEN 221, CPSC 258.

In Person Learning

Tue Thu

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

W2

Deep Learning

Time-money relationships; economic analysis of alternatives including the effects of interest rates, inflation, depreciation, tax, and uncertainty; cost estimation and budgeting; financial analysis of engineering innovations. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 152, MATH 221 and one of MATH 318, MATH 302, STAT 321, ELEC 321 and one of CPEN 211, CPEN 221, CPSC 258.

In Person Learning

Arranged

5:00 p.m. - 6:30 p.m.

W2

Economic Analysis of Engineering Projects

Time-money relationships; economic analysis of alternatives including the effects of interest rates, inflation, depreciation, tax, and uncertainty; cost estimation and budgeting; financial analysis of engineering innovations. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 152, MATH 221 and one of MATH 318, MATH 302, STAT 321, ELEC 321 and one of CPEN 211, CPEN 221, CPSC 258.

In Person Learning

Arranged

5:00 p.m. - 6:30 p.m.

W2

Economic Analysis of Engineering Projects

Design, analysis, and implementation of solutions in response to a real-world computer engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [3-6-2] Prerequisite: All of CPEN 311, CPEN 321, and one of CPEN 211, CPEN 221, CPSC 252; and one of CPEN 291, CPEN 301.

In Person Learning

Tue Thu

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

W2

Computer Engineering Capstone Design Project

Design, analysis, and implementation of solutions in response to a real-world computer engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [3-6-2] Prerequisite: All of CPEN 311, CPEN 321, and one of CPEN 211, CPEN 221, CPSC 252; and one of CPEN 291, CPEN 301.

In Person Learning

Fri

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

W2

Computer Engineering Capstone Design Project

Design, analysis, and implementation of solutions in response to a real-world computer engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [3-6-2] Prerequisite: All of CPEN 311, CPEN 321, and one of CPEN 211, CPEN 221, CPSC 252; and one of CPEN 291, CPEN 301.

In Person Learning

Fri

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

W2

Computer Engineering Capstone Design Project

Directed research experience. Communication of research ideas. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.

In Person Learning

Arranged

1:00 p.m. - 4:00 p.m.

W1

Research Experience in Computer Engineering

Directed research experience. Communication of research ideas. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.

In Person Learning

Arranged

1:00 p.m. - 4:00 p.m.

W1

Research Experience in Computer Engineering

Economic Analysis of Engineering Projects

Security risks, threats, and vulnerabilities from technical perspectives; cryptography; software and web security; access control; assurance, accountability, usable privacy and security; engineering of secure systems; cryoprocryptography. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: Use of CPEN 333, CPEN 331, CPSC 313.

In Person Learning

Mon Wed

1:00 a.m. - 12:30 a.m.

W2

Undergraduate Thesis

Security risks, threats, and vulnerabilities from technical perspectives; cryptography; software and web security; access control; assurance, accountability, usable privacy and security; engineering of secure systems; cryoprocryptography. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: Use of CPEN 333, CPEN 331, CPSC 313.

In Person Learning

Arranged

5:00 p.m. - 6:30 p.m.

W1

Undergraduate Thesis

Security risks, threats, and vulnerabilities from technical perspectives; cryptography; software and web security; access control; assurance, accountability, usable privacy and security; engineering of secure systems; cryoprocryptography. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: Use of CPEN 333, CPEN 331, CPSC 313.

In Person Learning

Arranged

5:00 p.m. - 6:30 p.m.

W1

Undergraduate Thesis

Security risks, threats, and vulnerabilities from technical perspectives; cryptography; software and web security; access control; assurance, accountability, usable privacy and security; engineering of secure systems; cryoprocryptography. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: Use of CPEN 333, CPEN 331, CPSC 313.

In Person Learning

Arranged

5:00 p.m. - 6:30 p.m.
Computational Thinking
Wed
B_101
12:30 p.m. - 2:00 p.m.
Arranged

Cybersecurity
CPSC_V
W2
522

Parallel and Reconfigurable Computing
CPEN_V
B_101
109
512

Quantum Information and Computation
CPEN_V
W1
514
109

Software Verification and Testing
CPEN_V
W2
534

Trade-offs in Designing Computer Systems
CPEN_V
W2
541

Human-Interface Technologies
CPEN_V
W1
542
201

Architecture for Learning Systems
CPEN_V
W1
520
201

Advanced Computer Architecture
CPEN_V
W2
511
201

Parallel and Reconfigurable Computing
CPEN_V
W1
512
201

Quantum Information and Computation
CPEN_V
W1
514
109

Computer Architecture for Learning Systems
CPEN_V
W1
510
101

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]

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]

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]

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]

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]

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]

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]

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]
Computational Thinking

W1

Meaning and impact of computational thinking. Solving problems using computational thinking, testing, debugging. How computers work. No prior computing experience required. Not for students with existing credit for or exemption from CPSC 107, CPSC 110 or APSC 160. [3-0-1] 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. [3-0-1] 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. [3-0-1] 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. [3-0-1] 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. [3-0-1] 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. [3-0-1] 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. [3-0-1] In Person Learning Wed 4:00 p.m. - 5:00 p.m.

W1

Introduction to Systematic Program Design

W1

Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1] In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

W1

Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1] In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.

W2

Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1] In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

W2

Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1] In Person Learning Tue Thu 1:30 p.m. - 3:00 p.m.

W2

Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1] In Person Learning Arranged Arranged

W1

Introduction to Systematic Program Design

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 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 Fri 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 Fri 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 8:30 a.m. - 9:30 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, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1] In Person Learning Thu 4:00 p.m. - 6:00 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 exemption 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 exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]

Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]

Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]

Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]

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Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]

Computation as a tool for systematic problem solving in non-computer-science disciplines. Introductory programming skills. Not for credit for students who have credit for, or exemption from, or are concurrently taking CPSC 110 or APSC 160. No programming experience expected. [3-0-1]
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
<th>Format</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPSC 103</td>
<td>T2P</td>
<td>Introduction to Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>107-T2P</td>
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<tr>
<td>CPSC 103</td>
<td>T2R</td>
<td>Introduction to Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>107-T2R</td>
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<tr>
<td>CPSC 103</td>
<td>T2S</td>
<td>Introduction to Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>107-T2S</td>
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<tr>
<td>CPSC 103</td>
<td>T2T</td>
<td>Introduction to Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>107-T2T</td>
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<tr>
<td>CPSC 107</td>
<td>VT1</td>
<td>Introduction to Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>107-VT1</td>
</tr>
<tr>
<td>CPSC 107</td>
<td>VT2</td>
<td>Introduction to Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>107-VT2</td>
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<tr>
<td>CPSC 107</td>
<td>VT3</td>
<td>Introduction to Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>107-VT3</td>
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<tr>
<td>CPSC 107</td>
<td>207</td>
<td>Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>107-207</td>
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<tr>
<td>CPSC 107</td>
<td>L2A</td>
<td>Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>107-L2A</td>
</tr>
<tr>
<td>CPSC 107</td>
<td>L2B</td>
<td>Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>107-L2B</td>
</tr>
<tr>
<td>CPSC 107</td>
<td>L2C</td>
<td>Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>107-L2C</td>
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<tr>
<td>CPSC 107</td>
<td>L2D</td>
<td>Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>107-L2D</td>
</tr>
<tr>
<td>CPSC 107</td>
<td>L2E</td>
<td>Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>107-L2E</td>
</tr>
<tr>
<td>CPSC 107</td>
<td>L2F</td>
<td>Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>107-L2F</td>
</tr>
<tr>
<td>CPSC 107</td>
<td>L2G</td>
<td>Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>107-L2G</td>
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<tr>
<td>CPSC 107</td>
<td>L2H</td>
<td>Systematic Program Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>107-L2H</td>
</tr>
<tr>
<td>CPSC 110</td>
<td>101</td>
<td>Computation, Programs, and Programming</td>
<td>Hybrid Learning</td>
<td>W1</td>
<td>8:30 a.m. - 11:00 a.m.</td>
<td>107-101</td>
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<tr>
<td>CPSC 110</td>
<td>102</td>
<td>Computation, Programs, and Programming</td>
<td>Hybrid Learning</td>
<td>W1</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>CPSC 110</td>
<td>103</td>
<td>Computation, Programs, and Programming</td>
<td>Hybrid Learning</td>
<td>W1</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>107-103</td>
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<tr>
<td>CPSC 110</td>
<td>201</td>
<td>Computation, Programs, and Programming</td>
<td>Hybrid Learning</td>
<td>W2</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<td>CRSC_V 110-201</td>
<td>CPSC_V</td>
<td>110</td>
<td>201</td>
<td>Computation, Programs, and Programming</td>
<td>W2</td>
<td>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]</td>
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<tr>
<td>CRSC_V 110-202</td>
<td>CPSC_V</td>
<td>110</td>
<td>202</td>
<td>Computation, Programs, and Programming</td>
<td>W2</td>
<td>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]</td>
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<tr>
<td>CRSC_V 110-CH</td>
<td>CPSC_V</td>
<td>110</td>
<td>CH</td>
<td>Computation, Programs, and Programming</td>
<td>W2</td>
<td>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]</td>
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<tr>
<td>CRSC_V 110-100</td>
<td>CPSC_V</td>
<td>110</td>
<td>100</td>
<td>Computation, Programs, and Programming</td>
<td>W1</td>
<td>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]</td>
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<tr>
<td>CRSC_V 110-100</td>
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<td>110</td>
<td>110</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]
Fundamental program and computation structures. Introductory programming skills. Computation as a tool for information processing, simulation and modeling, and interfacing with the world. [3-1-1] Prerequisite: Principles of Mathematics 12 or Pre-calculus.

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 executions. [3-2-1] Prerequisite: Principles of Mathematics 12 or Pre-calculus.

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- **CPSC 121-L1M**
  - 121
  - L1M
  - Models of Computation
  - W1
  - In Person Learning
  - Fri
  - 8:00 a.m. - 11:00 a.m.

- **CPSC 121-L1N**
  - 121
  - L1N
  - Models of Computation
  - W1
  - In Person Learning
  - Wed
  - 11:00 a.m. - 1:00 p.m.

- **CPSC 121-L1P**
  - 121
  - L1P
  - Models of Computation
  - W1
  - In Person Learning
  - Mon
  - 3:00 p.m. - 5:00 p.m.

- **CPSC 121-L2C**
  - 121
  - L2C
  - Models of Computation
  - W1
  - In Person Learning
  - Thu
  - 1:00 p.m. - 3:00 p.m.

- **CPSC 121-L2D**
  - 121
  - L2D
  - Models of Computation
  - W1
  - In Person Learning
  - Mon
  - 3:00 p.m. - 5:00 p.m.

- **CPSC 121-L2E**
  - 121
  - L2E
  - Models of Computation
  - W1
  - In Person Learning
  - Fri
  - 8:00 a.m. - 11:00 a.m.

- **CPSC 121-L2F**
  - 121
  - L2F
  - Models of Computation
  - W1
  - In Person Learning
  - Mon
  - 11:00 a.m. - 1:00 p.m.

- **CPSC 121-L2G**
  - 121
  - L2G
  - Models of Computation
  - W1
  - In Person Learning
  - Mon
  - 3:00 p.m. - 5:00 p.m.

- **CPSC 121-L2H**
  - 121
  - L2H
  - Models of Computation
  - W1
  - In Person Learning
  - Mon
  - 5:00 p.m. - 7:00 p.m.

- **CPSC 121-L2I**
  - 121
  - L2I
  - Models of Computation
  - W1
  - In Person Learning
  - Mon
  - 11:00 a.m. - 1:00 p.m.

- **CPSC 121-L2J**
  - 121
  - L2J
  - Models of Computation
  - W1
  - In Person Learning
  - Mon
  - 3:00 p.m. - 5:00 p.m.

- **CPSC 121-L2K**
  - 121
  - L2K
  - Models of Computation
  - W1
  - In Person Learning
  - Mon
  - 5:00 p.m. - 7:00 p.m.

- **CPSC 121-L2L**
  - 121
  - L2L
  - Models of Computation
  - W1
  - In Person Learning
  - Mon
  - 11:00 a.m. - 1:00 p.m.

- **CPSC 121-L2M**
  - 121
  - L2M
  - Models of Computation
  - W1
  - In Person Learning
  - Mon
  - 3:00 p.m. - 5:00 p.m.

- **CPSC 121-L2N**
  - 121
  - L2N
  - Models of Computation
  - W1
  - In Person Learning
  - Mon
  - 5:00 p.m. - 7:00 p.m.

- **CPSC 121-L2O**
  - 121
  - L2O
  - Models of Computation
  - W1
  - In Person Learning
  - Mon
  - 11:00 a.m. - 1:00 p.m.

- **CPSC 121-L2P**
  - 121
  - L2P
  - Models of Computation
  - W1
  - In Person Learning
  - Mon
  - 3:00 p.m. - 5:00 p.m.
CPSC_121-1SG CPSC_V 121 L2G Models of Computation
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
In Person Learning Wed 11:00 a.m. - 1:00 p.m.

CPSC_121-1SH CPSC_V 121 L2H Models of Computation
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
In Person Learning Wed 12:00 p.m. - 2:00 p.m.

CPSC_121-1SI CPSC_V 121 L2I Models of Computation
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
In Person Learning Tue 3:00 p.m. - 5:00 p.m.

CPSC_121-1SJ CPSC_V 121 L2J Models of Computation
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
In Person Learning Fri 5:00 a.m. - 11:00 a.m.

CPSC_121-1SL CPSC_V 121 L2L Models of Computation
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
In Person Learning Thu 1:00 p.m. - 3:00 p.m.

CPSC_121-1SM CPSC_V 121 L2M Models of Computation
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
In Person Learning Thu 3:00 p.m. - 5:00 p.m.

CPSC_121-1SN CPSC_V 121 L2N Models of Computation
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
In Person Learning Thu 3:00 p.m. - 5:00 p.m.

CPSC_121-1SO CPSC_V 121 L2O Models of Computation
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
In Person Learning Fri 9:00 a.m. - 11:00 a.m.

CPSC_121-1SP CPSC_V 121 L2P Models of Computation
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
In Person Learning Thu 1:00 p.m. - 3:00 p.m.

CPSC_121-1SQ CPSC_V 121 L2Q Models of Computation
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
In Person Learning Mon 1:00 p.m. - 3:00 p.m.

CPSC_121-1SR CPSC_V 121 L2R Models of Computation
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
In Person Learning Mon 11:00 a.m. - 12:00 p.m.

CPSC_121-1SS CPSC_V 121 L2S Models of Computation
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
In Person Learning Mon 11:00 a.m. - 1:00 p.m.
Models of Computation

Mon
11:00 a.m. - 12:00 p.m.
In Person Learning
121

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

Tue
Thu

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

In Person Learning

Fri

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

Models of Computation

In Person Learning
Mon

Fri

In Person Learning

1. Corequisite: One of CPSC 107, CPSC 110.

2. Corequisite: One of CPSC 107, CPSC 110.

3. Corequisite: One of CPSC 107, CPSC 110.

Physical and mathematical structures of computation. Boolean algebra and combinational 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.
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<th>Days</th>
<th>Time</th>
<th>Location</th>
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<td>W1</td>
<td>Tu</td>
<td>5:00 p.m. - 5:00 p.m.</td>
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<td>CPSC 210-131</td>
<td>CPSC_V</td>
<td>W1</td>
<td>Tu</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>CPSC_V</td>
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<td>CPSC 210-137</td>
<td>CPSC_V</td>
<td>W1</td>
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<td>CPSC 210-138</td>
<td>CPSC_V</td>
<td>W1</td>
<td>Tu</td>
<td>5:00 p.m. - 5:00 p.m.</td>
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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.

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.

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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.

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.

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.
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<th>Course Code</th>
<th>Lecture Room</th>
<th>Time</th>
<th>Title</th>
<th>Instructor</th>
<th>Days</th>
<th>Notes</th>
<th>Location</th>
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<td>CPSC 210-120</td>
<td>L2Q</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>Software Construction</td>
<td>W2</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>Wed</td>
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<td>CPSC 210-128</td>
<td>L2R</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [2-2-0] Prerequisite: One of CPSC 107, CPSC 110.</td>
<td>W2</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>CPSC 210-12S</td>
<td>L2S</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [2-2-0] Prerequisite: One of CPSC 107, CPSC 110.</td>
<td>W2</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>CPSC 210-12T</td>
<td>L2T</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [2-2-0] Prerequisite: One of CPSC 107, CPSC 110.</td>
<td>W2</td>
<td>Mon</td>
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<td>Wed</td>
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<td>CPSC 210-12U</td>
<td>L2U</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [2-2-0] Prerequisite: One of CPSC 107, CPSC 110.</td>
<td>W2</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>Wed</td>
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<td>CPSC 210-12V</td>
<td>L2V</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [2-2-0] Prerequisite: One of CPSC 107, CPSC 110.</td>
<td>W2</td>
<td>Mon</td>
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<td>CPSC 210-12W</td>
<td>L2W</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [2-2-0] Prerequisite: One of CPSC 107, CPSC 110.</td>
<td>W2</td>
<td>Mon</td>
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<td>Wed</td>
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<td>CPSC 210-12Z</td>
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<td>1:00 p.m. - 3:00 p.m.</td>
<td>Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [2-2-0] Prerequisite: One of CPSC 107, CPSC 110.</td>
<td>W2</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>CPSC 210-18A</td>
<td>L1A</td>
<td>201</td>
<td>Introduction to Computer Systems</td>
<td>W1</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Tue</td>
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<tr>
<td>CPSC 210-18B</td>
<td>L1B</td>
<td>201</td>
<td>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.</td>
<td>W1</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Tue</td>
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<tr>
<td>CPSC 210-18C</td>
<td>L1C</td>
<td>201</td>
<td>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.</td>
<td>W1</td>
<td>Tue</td>
<td>In Person Learning</td>
<td>Tue</td>
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<td>CPSC 210-18D</td>
<td>L1D</td>
<td>201</td>
<td>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.</td>
<td>W1</td>
<td>Tue</td>
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<td>Tue</td>
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<td>CPSC 210-18E</td>
<td>L1E</td>
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<td>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.</td>
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<td>CPSC 210-18F</td>
<td>L1F</td>
<td>201</td>
<td>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.</td>
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<td>CPSC 210-18G</td>
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<td>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.</td>
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<td>In Person Learning</td>
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<td>CPSC 210-18H</td>
<td>L1H</td>
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<td>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.</td>
<td>W1</td>
<td>Tue</td>
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<td>CPSC 210-204</td>
<td>L2U</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [2-2-0] Prerequisite: One of CPSC 107, CPSC 110.</td>
<td>W2</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>Fri</td>
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<tr>
<td>CPSC 210-205</td>
<td>L2V</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>Design, development, and analysis of robust software components. Topics such as software design, computational models, data structures, debugging, and testing. [2-2-0] Prerequisite: One of CPSC 107, CPSC 110.</td>
<td>W2</td>
<td>Mon</td>
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<td>CPSC 210-206</td>
<td>L2W</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>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.</td>
<td>W2</td>
<td>Mon</td>
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<td>CPSC 210-207</td>
<td>L2X</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>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.</td>
<td>W2</td>
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<td>CPSC 210-208</td>
<td>L2Y</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>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.</td>
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<td>Mon</td>
<td>In Person Learning</td>
<td>Fri</td>
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<td>9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>12 00 p.m. - 1:00 p.m.</td>
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<td>Mon</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<td>9:00 a.m. - 10:00 a.m.</td>
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<td>9:00 a.m. - 10:00 a.m.</td>
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<td>Mon</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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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.

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.

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.

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.
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 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 1:00 p.m. - 3:00 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 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 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 Mon 3:00 p.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 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 Wed 3:00 p.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 11:00 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.

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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 Tue 11:00 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.

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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 11:00 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 Wed 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 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.

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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.

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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 8:00 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 3:00 p.m. - 5:00 p.m.

Advanced procedural programming. Fundamental algorithms for sorting and searching. Data structures including trees, and hash tables. Introduction to scripting languages and file input/output. [3-2-0] Prerequisite: CPSC 160. In-Person Learning Mon Wed Fri 8:00 a.m. - 9:00 a.m.
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.

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.

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.

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.

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. Use of CPSC 105, CPSC 106, CPEN 221, ECS 211, MATH 200 and one of MATH 210, MATH 211, MATH 212, MATH 221, MATH 222. Credit/D/Fail grading. Prerequisite: [CPSC298] months. Normally taken during the summer following the second year. Technical report required. Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.

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. Use of CPSC 105, CPSC 106, CPEN 221, ECS 211, MATH 200 and one of MATH 210, MATH 211, MATH 212, MATH 221, MATH 222. Credit/D/Fail grading. Prerequisite: [CPSC298] months. Normally taken during the summer following the second year. Technical report required. Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.

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. Use of CPSC 105, CPSC 106, CPEN 221, ECS 211, MATH 200 and one of MATH 210, MATH 211, MATH 212, MATH 221, MATH 222. Credit/D/Fail grading. Prerequisite: [CPSC298] months. Normally taken during the summer following the second year. Technical report required. Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.

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. Use of CPSC 105, CPSC 106, CPEN 221, ECS 211, MATH 200 and one of MATH 210, MATH 211, MATH 212, MATH 221, MATH 222. Credit/D/Fail grading. Prerequisite: [CPSC298] months. Normally taken during the summer following the second year. Technical report required. Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.

Introduction to scripting languages and file input/output. [3-2-0] Prerequisite: APSC 160.

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Introduction to scripting languages and file input/output. [3-2-0] Prerequisite: APSC 160.

Introduction to scripting languages and file input/output. [3-2-0] Prerequisite: APSC 160.
Introduction to Relational Databases

Prerequisite: CPSC 221.

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]
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPSC 304-T2N</td>
<td>CPSC 304-T2N</td>
<td>Introduction to Relational Databases</td>
<td>W2</td>
<td>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 221. In Person Learning Thu 11:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>CPSC 304-T20</td>
<td>CPSC 304-T20</td>
<td>Introduction to Relational Databases</td>
<td>W2</td>
<td>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 221. In Person Learning Thu 1:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>CPSC 304-T2P</td>
<td>CPSC 304-T2P</td>
<td>Introduction to Relational Databases</td>
<td>W2</td>
<td>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 221. In Person Learning Fri 10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>CPSC 304-T2Q</td>
<td>CPSC 304-T2Q</td>
<td>Introduction to Relational Databases</td>
<td>W2</td>
<td>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 221. In Person Learning Fri 11:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>CPSC 310-101</td>
<td>CPSC 310-101</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Tue Thu 8:00 a.m. - 9:30 a.m.</td>
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<tr>
<td>CPSC 310-102</td>
<td>CPSC 310-102</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>CPSC 310-103</td>
<td>CPSC 310-103</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Tue Thu 10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>CPSC 310-201</td>
<td>CPSC 310-201</td>
<td>Introduction to Software Engineering</td>
<td>W2</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Tue Thu 8:00 a.m. - 9:30 a.m.</td>
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<td>CPSC 310-202</td>
<td>CPSC 310-202</td>
<td>Introduction to Software Engineering</td>
<td>W2</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>CPSC 310-11A</td>
<td>CPSC 310-11A</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Fri 2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>CPSC 310-11B</td>
<td>CPSC 310-11B</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Wed 11:00 a.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>CPSC 310-11C</td>
<td>CPSC 310-11C</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Wed 3:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>CPSC 310-11D</td>
<td>CPSC 310-11D</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Wed 11:00 a.m. - 1:00 p.m.</td>
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<tr>
<td>CPSC 310-11E</td>
<td>CPSC 310-11E</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Tue 1:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>CPSC 310-11F</td>
<td>CPSC 310-11F</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Thu 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>CPSC 310-11G</td>
<td>CPSC 310-11G</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Thu 10:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>CPSC 310-11H</td>
<td>CPSC 310-11H</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Wed 9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>CPSC 310-11I</td>
<td>CPSC 310-11I</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Thu 5:00 p.m. - 7:00 p.m.</td>
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<td>CPSC 310-11K</td>
<td>CPSC 310-11K</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Fri 8:00 a.m. - 11:00 a.m.</td>
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<td>CPSC 310-11L</td>
<td>CPSC 310-11L</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Fri 11:00 a.m. - 1:00 p.m.</td>
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<td>CPSC 310-11M</td>
<td>CPSC 310-11M</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Fri 11:00 a.m. - 1:00 p.m.</td>
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<tr>
<td>CPSC 310-11N</td>
<td>CPSC 310-11N</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Tue 1:00 p.m. - 3:00 p.m.</td>
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<td>CPSC 310-11P</td>
<td>CPSC 310-11P</td>
<td>Introduction to Software Engineering</td>
<td>W1</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. Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Fri 11:00 a.m. - 1:00 p.m.</td>
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In Person Learning

T1C

W2

311

L2G

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

In Person Learning

W2

Introduction to Software Engineering

W2

In Person Learning

Introduction to Software Engineering

310

Mon

311

L2F

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

In Person Learning

In Person Learning

310

Mon

Thu

W2

In Person Learning

Definition of Programming Languages

W2

In Person Learning

Definition of Programming Languages

Mon

20:52

S-3-0-1

Prerequisite: CPSC 210.

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. 

Information security. [3-2-0] Prerequisite: All of CPSC 213, CPSC 221.

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.

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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.
CPSC_V 313-201 CPSC_V 313 201 Functional and Logic Programming W2 Principles of symbolic computing, using languages based upon first-order logic and the lambda calculus. Algorithms for implementing such languages. Applications to artificial intelligence and knowledge representation. [3-0-1] Prerequisite: One of CPSC 213, CPSC 221. In Person Learning Arranged Arranged

CPSC_V 313-101 CPSC_V 313 101 Computer Hardware and Operating Systems W1 Instruction sets, pipelining, cache optimization, cooling, 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 Mon Wed Fri 4:00 p.m. - 5:00 p.m.

CPSC_V 313-102 CPSC_V 313 102 Computer Hardware and Operating Systems W1 Instruction sets, pipelining, cache optimization, cooling, 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 Mon Wed Fri 11:00 a.m. - 12:30 p.m.

CPSC_V 313-203 CPSC_V 313 203 Computer Hardware and Operating Systems W2 Instruction sets, pipelining, cache optimization, cooling, 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 Mon Wed Fri 11:00 a.m. - 12:30 p.m.

CPSC_V 313-204 CPSC_V 313 204 Computer Hardware and Operating Systems W2 Instruction sets, pipelining, cache optimization, cooling, 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 Mon Wed Fri 2:00 p.m. - 3:00 p.m.

CPSC_V 313-T1A CPSC_V 313 T1A Computer Hardware and Operating Systems W1 Instruction sets, pipelining, cache optimization, cooling, virtual memory management, dynamically linked libraries, exception processing, execution time of programs. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Fri 12:00 p.m. - 1:00 p.m.

CPSC_V 313-T1B CPSC_V 313 T1B Computer Hardware and Operating Systems W1 Instruction sets, pipelining, cache optimization, cooling, 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 3:00 p.m. - 4:00 p.m.

CPSC_V 313-T1C CPSC_V 313 T1C Computer Hardware and Operating Systems W1 Instruction sets, pipelining, cache optimization, cooling, 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 Wed 3:00 p.m. - 4:00 p.m.

CPSC_V 313-T1D CPSC_V 313 T1D Computer Hardware and Operating Systems W1 Instruction sets, pipelining, cache optimization, cooling, 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 Wed 1:00 p.m. - 2:00 p.m.

CPSC_V 313-T1E CPSC_V 313 T1E Computer Hardware and Operating Systems W1 Instruction sets, pipelining, cache optimization, cooling, virtual memory management, dynamically linked libraries, exception processing, execution time of programs. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Fri 3:00 p.m. - 4:00 p.m.

CPSC_V 313-T1F CPSC_V 313 T1F Computer Hardware and Operating Systems W1 Instruction sets, pipelining, cache optimization, cooling, 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 Wed 5:00 p.m. - 6:00 p.m.

CPSC_V 313-T1G CPSC_V 313 T1G Computer Hardware and Operating Systems W1 Instruction sets, pipelining, cache optimization, cooling, 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 3:00 p.m. - 4:00 p.m.

CPSC_V 313-T1H CPSC_V 313 T1H Computer Hardware and Operating Systems W1 Instruction sets, pipelining, cache optimization, cooling, 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 12:30 p.m. - 1:30 p.m.

CPSC_V 313-T1I CPSC_V 313 T1I Computer Hardware and Operating Systems W1 Instruction sets, pipelining, cache optimization, cooling, virtual memory management, dynamically linked libraries, exception processing, execution time of programs. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Tue 12:00 p.m. - 1:00 p.m.

CPSC_V 313-T1K CPSC_V 313 T1K Computer Hardware and Operating Systems W1 Instruction sets, pipelining, cache optimization, cooling, 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 5:00 p.m. - 6:00 p.m.

CPSC_V 313-T1M CPSC_V 313 T1M Computer Hardware and Operating Systems W1 Instruction sets, pipelining, cache optimization, cooling, virtual memory management, dynamically linked libraries, exception processing, execution time of programs. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Fri 1:00 p.m. - 2:00 p.m.

CPSC_V 313-T2A CPSC_V 313 T2A Computer Hardware and Operating Systems W2 Instruction sets, pipelining, cache optimization, cooling, 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 12:30 p.m. - 1:30 p.m.

CPSC_V 313-T2B CPSC_V 313 T2B Computer Hardware and Operating Systems W2 Instruction sets, pipelining, cache optimization, cooling, 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 Wed 3:00 p.m. - 4:00 p.m.

CPSC_V 313-T2C CPSC_V 313 T2C Computer Hardware and Operating Systems W2 Instruction sets, pipelining, cache optimization, cooling, virtual memory management, dynamically linked libraries, exception processing, execution time of programs. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Fri 3:00 p.m. - 4:00 p.m.

CPSC_V 313-T2D CPSC_V 313 T2D Computer Hardware and Operating Systems W2 Instruction sets, pipelining, cache optimization, cooling, 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 3:00 p.m. - 4:00 p.m.

CPSC_V 313-T2E CPSC_V 313 T2E Computer Hardware and Operating Systems W2 Instruction sets, pipelining, cache optimization, cooling, 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 5:00 p.m. - 6:00 p.m.

CPSC_V 313-T2F CPSC_V 313 T2F Computer Hardware and Operating Systems W2 Instruction sets, pipelining, cache optimization, cooling, virtual memory management, dynamically linked libraries, exception processing, execution time of programs. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. In Person Learning Fri 3:00 p.m. - 4:00 p.m.

CPSC_V 313-T2G CPSC_V 313 T2G Computer Hardware and Operating Systems W2 Instruction sets, pipelining, cache optimization, cooling, 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 5:00 p.m. - 6:00 p.m.
### In Person Learning

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<th>Course Name</th>
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<td>CPSC 217-101</td>
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CPSC_V 317-202 CPSC_V 317 202 Introduction to Computer Networking W2 Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. in Person Learning Mon Wed Fri 11:00 a.m. - 12:00 p.m.

CPSC_V 317-21A CPSC_V 317 21A Introduction to Computer Networking W1 Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. in Person Learning Mon Wed Fri 1:00 p.m. - 2:00 p.m.

CPSC_V 317-21B CPSC_V 317 21B Introduction to Computer Networking W1 Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. in Person Learning Mon Wed Fri 2:00 p.m. - 3:00 p.m.

CPSC_V 317-21C CPSC_V 317 21C Introduction to Computer Networking W1 Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. in Person Learning Mon Wed Fri 3:00 p.m. - 4:00 p.m.

CPSC_V 317-21D CPSC_V 317 21D Introduction to Computer Networking W1 Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. in Person Learning Mon Wed Fri 4:00 p.m. - 5:00 p.m.

CPSC_V 317-T1A CPSC_V 317 T1A Introduction to Computer Networking W1 Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. in Person Learning Mon Wed Fri 1:00 p.m. - 2:00 p.m.

CPSC_V 317-T1B CPSC_V 317 T1B Introduction to Computer Networking W1 Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. in Person Learning Mon Wed Fri 2:00 p.m. - 3:00 p.m.

CPSC_V 317-T1C CPSC_V 317 T1C Introduction to Computer Networking W1 Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. in Person Learning Mon Wed Fri 3:00 p.m. - 4:00 p.m.

CPSC_V 317-T1D CPSC_V 317 T1D Introduction to Computer Networking W1 Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. in Person Learning Mon Wed Fri 4:00 p.m. - 5:00 p.m.

CPSC_V 317-T1E CPSC_V 317 T1E Introduction to Computer Networking W1 Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. in Person Learning Mon Wed Fri 5:00 p.m. - 6:00 p.m.

CPSC_V 317-T1F CPSC_V 317 T1F Introduction to Computer Networking W1 Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. in Person Learning Mon Wed Fri 6:00 p.m. - 7:00 p.m.

CPSC_V 317-T1G CPSC_V 317 T1G Introduction to Computer Networking W1 Computer networking, basic communication protocols, network infrastructure and routing. Common application-level protocols and principles associated with developing distributed applications. [3-0-1] Prerequisite: All of CPSC 213, CPSC 221. in Person Learning Mon Wed Fri 7:00 p.m. - 8:00 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, DSID 300, MATH or STAT at 200 level or above.
In Person Learning Mon Wed Fri 1:00 p.m. - 2:00 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, DSID 300, MATH or STAT at 200 level or above.
In Person Learning Tue 5:00 p.m. - 6:00 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, DSID 300, MATH or STAT at 200 level or above.
In Person Learning Tue 1:30 p.m. - 4:30 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, DSID 300, MATH or STAT at 200 level or above.
In Person Learning Wed 1:00 p.m. - 6:00 p.m.

In Person Learning Fri 10:00 a.m. - 11:00 a.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, DSID 300, MATH or STAT at 200 level or above.
In Person Learning Mon 5:00 p.m. - 6:00 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, DSID 300, MATH or STAT at 200 level or above.
In Person Learning Wed 12:00 p.m. - 1:00 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, DSID 300, MATH or STAT at 200 level or above.
In Person Learning Tue 10:00 a.m. - 10:00 a.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, DSID 300, MATH or STAT at 200 level or above.
In Person Learning Tue 3:00 p.m. - 5:00 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, DSID 300, MATH or STAT at 200 level or above.
In Person Learning Tue 11:00 a.m. - 12:30 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, DSID 300, MATH or STAT at 200 level or above.
In Person Learning Thu 10:00 a.m. - 11:30 a.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, DSID 300, MATH or STAT at 200 level or above.
In Person Learning Tue 1:00 p.m. - 6:00 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, DSID 300, MATH or STAT at 200 level or above.
In Person Learning Fri 11:00 a.m. - 12:30 p.m.

Problem-solving and planning; state/action models and graph searching. Natural language understanding Computational visions. Applications of artificial intelligence. [3-0-2] Prerequisite: CPSC 221.
In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.

Problem-solving and planning; state/action models and graph searching. Natural language understanding Computational visions. Applications of artificial intelligence. [3-0-2] Prerequisite: CPSC 221.
In Person Learning Tue Thu 5:00 p.m. - 6:30 p.m.

Problem-solving and planning; state/action models and graph searching. Natural language understanding Computational visions. Applications of artificial intelligence. [3-0-2] Prerequisite: CPSC 221.
In Person Learning Tue Thu 5:00 p.m. - 6:30 p.m.

In Person Learning Tue Thu 5:30 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 109, CPSC 209, CPSC 211, CPSC 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.
In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.

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 109, CPSC 209, CPSC 211, CPSC 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.
In Person Learning Tue Thu 11:00 a.m. - 12:30 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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Thu
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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Fri
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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Fri
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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Fri
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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Fri
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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Fri
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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Fri
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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Fri
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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Fri
8:00 p.m. - 9:00 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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Fri
9:00 p.m. - 10:00 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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Sat
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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Sat
9:30 a.m. - 10:30 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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Sat
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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Sat
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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Sat
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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Sat
12:30 p.m. - 1:30 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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Sat
1:30 p.m. - 2:30 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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Sat
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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Sat
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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Sat
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, CRIN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110.

In Person Learning
Sat
5:00 p.m. - 6:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Instructor</th>
<th>Time</th>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPSC 340-101</td>
<td>CPSC_V</td>
<td>Thu 9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Machine Learning and Data Mining</td>
</tr>
<tr>
<td>CPSC 340-102</td>
<td>CPSC_V</td>
<td>Thu 10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Machine Learning and Data Mining</td>
</tr>
<tr>
<td>CPSC 340-201</td>
<td>CPSC_V</td>
<td>Thu 1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Machine Learning and Data Mining</td>
</tr>
<tr>
<td>CPSC 340-202</td>
<td>CPSC_V</td>
<td>Thu 2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Machine Learning and Data Mining</td>
</tr>
</tbody>
</table>

**CPSC 340-101**
- Prerequisite: Either (a) one of CPSC 203, CPSC 210, CPEN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110, STAT 302, STAT 308, MATH 318.
- Models of algorithms for dimensionality reduction, nonlinear regression, classification, clustering, and unsupervised learning; applications to computer graphics, computer games, bio-informatics, information retrieval, e-commerce, databases, computer vision and artificial intelligence. (3-0-1)
- Prerequisite: CPSC 221 and one of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 317, MATH 326, MATH 254 and one of STAT 241, STAT 251, ECON 215, ECON 227, MATH 302, STAT 302, MATH 318.

**CPSC 340-102**
- Prerequisite: Either (a) one of CPSC 203, CPSC 210, CPEN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110, STAT 302, STAT 308, MATH 318.
- Models of algorithms for dimensionality reduction, nonlinear regression, classification, clustering, and unsupervised learning; applications to computer graphics, computer games, bio-informatics, information retrieval, e-commerce, databases, computer vision and artificial intelligence. (3-0-1)
- Prerequisite: CPSC 221 and one of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 317, MATH 326, MATH 254 and one of STAT 241, STAT 251, ECON 215, ECON 227, MATH 302, STAT 302, MATH 318.

**CPSC 340-201**
- Prerequisite: Either (a) one of CPSC 203, CPSC 210, CPEN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110, STAT 302, STAT 308, MATH 318.
- Models of algorithms for dimensionality reduction, nonlinear regression, classification, clustering, and unsupervised learning; applications to computer graphics, computer games, bio-informatics, information retrieval, e-commerce, databases, computer vision and artificial intelligence. (3-0-1)
- Prerequisite: CPSC 221 and one of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 317, MATH 326, MATH 254 and one of STAT 241, STAT 251, ECON 215, ECON 227, MATH 302, STAT 302, MATH 318.

**CPSC 340-202**
- Prerequisite: Either (a) one of CPSC 203, CPSC 210, CPEN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110, STAT 302, STAT 308, MATH 318.
- Models of algorithms for dimensionality reduction, nonlinear regression, classification, clustering, and unsupervised learning; applications to computer graphics, computer games, bio-informatics, information retrieval, e-commerce, databases, computer vision and artificial intelligence. (3-0-1)
- Prerequisite: CPSC 221 and one of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 317, MATH 326, MATH 254 and one of STAT 241, STAT 251, ECON 215, ECON 227, MATH 302, STAT 302, MATH 318.

**CPSC 340-701**
- Prerequisite: Either (a) one of CPSC 203, CPSC 210, CPEN 221 or (b) MATH 210 and one of CPSC 107, CPSC 110, STAT 302, STAT 308, MATH 318.
- Models of algorithms for dimensionality reduction, nonlinear regression, classification, clustering, and unsupervised learning; applications to computer graphics, computer games, bio-informatics, information retrieval, e-commerce, databases, computer vision and artificial intelligence. (3-0-1)
- Prerequisite: CPSC 221 and one of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 317, MATH 326, MATH 254 and one of STAT 241, STAT 251, ECON 215, ECON 227, MATH 302, STAT 302, MATH 318.
Models of algorithms for dimensionality reduction, nonlinear regression, classification, clustering and unsupervised learning; applications to computer graphics, computer games, bio-informatics, information retrieval, e-commerce, databases, computer vision and artificial intelligence. [3-0-1]
Prerequisite: CPSC 221 and one of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254 and one of STAT 241, STAT 251, ECON 325, ECON 327, MATH 302, STAT 302, MATH 316.

Models of algorithms for dimensionality reduction, nonlinear regression, classification, clustering and unsupervised learning; applications to computer graphics, computer games, bio-informatics, information retrieval, e-commerce, databases, computer vision and artificial intelligence. [3-0-1]
Prerequisite: CPSC 221 and one of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254 and one of STAT 241, STAT 251, ECON 325, ECON 327, MATH 302, STAT 302, MATH 316.

Basic tools and techniques, teaching a systematic approach to interface design, task analysis, analytic and empirical evaluation methods. [2-2-2] Prerequisite: One of CPSC 210, CPEN 221.
Prerequisite: CPSC 221 and one of MATH 152, MATH 221, MATH 223 and one of MATH 200, MATH 217, MATH 226, MATH 253, MATH 254 and one of STAT 241, STAT 251, ECON 325, ECON 327, MATH 302, STAT 302, MATH 316.

Hybrid Learning
Arranged

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

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

In Person Learning
Mon
3.00 p.m. - 4:00 p.m.

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

In Person Learning
Wed
33.00 a.m. - 11:30 a.m.

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

In Person Learning
Mon
9.00 a.m. - 10:30 a.m.

In Person Learning
Tue
9:00 a.m. - 10:30 a.m.

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

In Person Learning
Arranged

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

In Person Learning
Mon
5:00 p.m. - 6:30 p.m.

In Person Learning
Mon
3:30 p.m. - 5:00 p.m.

In Person Learning
Thu
30.00 a.m. - 12:30 p.m.

In Person Learning
Thu
4:30 p.m. - 6:00 p.m.

In Person Learning
Thu
6:00 p.m. - 8:00 p.m.

In Person Learning
Fri
1:00 p.m. - 3:00 p.m.
<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CPSC_V 344-T1E</td>
<td>CPSC_V</td>
<td>344 T1E</td>
<td>Introduction to Human Computer Interaction Methods</td>
<td>W1</td>
<td>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 203, CPEN 221.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 344-T1F</td>
<td>CPSC_V</td>
<td>344 T1F</td>
<td>Introduction to Human Computer Interaction Methods</td>
<td>W1</td>
<td>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 203, CPEN 221.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 344-T1G</td>
<td>CPSC_V</td>
<td>344 T1G</td>
<td>Introduction to Human Computer Interaction Methods</td>
<td>W1</td>
<td>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 203, CPEN 221.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 344-T2A</td>
<td>CPSC_V</td>
<td>344 T2A</td>
<td>Introduction to Human Computer Interaction Methods</td>
<td>W2</td>
<td>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 203, CPEN 221.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 344-T2B</td>
<td>CPSC_V</td>
<td>344 T2B</td>
<td>Introduction to Human Computer Interaction Methods</td>
<td>W2</td>
<td>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 203, CPEN 221.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 344-T2C</td>
<td>CPSC_V</td>
<td>344 T2C</td>
<td>Introduction to Human Computer Interaction Methods</td>
<td>W2</td>
<td>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 203, CPEN 221.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 344-T2E</td>
<td>CPSC_V</td>
<td>344 T2E</td>
<td>Introduction to Human Computer Interaction Methods</td>
<td>W2</td>
<td>Students will attend a series of research seminars presented by faculty members, produce a thesis proposal, and have their former thesis supervisor attended.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 344-001</td>
<td>CPSC_V</td>
<td>001</td>
<td>Honour Research Seminar</td>
<td>W1</td>
<td>Overview of relational and non-relational database systems, role and usage of a database. When querying data, data modeling, query languages, and query optimization. [3-0-1] Prerequisite: One of CPSC 203, CPEN 221.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 348-101</td>
<td>CPSC_V</td>
<td>101</td>
<td>Databases in Data Science</td>
<td>W1</td>
<td>Overview of relational and non-relational database systems, role and usage of a database. When querying data, data modeling, query languages, and query optimization.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 348-201</td>
<td>CPSC_V</td>
<td>201</td>
<td>Databases in Data Science</td>
<td>W2</td>
<td>Overview of relational and non-relational database systems, role and usage of a database.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 368-T1A</td>
<td>CPSC_V</td>
<td>368 T1A</td>
<td>Databases in Data Science</td>
<td>W1</td>
<td>Overview of relational and non-relational database systems, role and usage of a database. When querying data, data modeling, query languages, and query optimization.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 368-T1B</td>
<td>CPSC_V</td>
<td>368 T1B</td>
<td>Databases in Data Science</td>
<td>W1</td>
<td>Overview of relational and non-relational database systems, role and usage of a database. When querying data, data modeling, query languages, and query optimization.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 368-T1C</td>
<td>CPSC_V</td>
<td>368 T1C</td>
<td>Databases in Data Science</td>
<td>W1</td>
<td>Overview of relational and non-relational database systems, role and usage of a database.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 368-T1D</td>
<td>CPSC_V</td>
<td>368 T1D</td>
<td>Databases in Data Science</td>
<td>W1</td>
<td>Overview of relational and non-relational database systems, role and usage of a database. When querying data, data modeling, query languages, and query optimization.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 368-T1E</td>
<td>CPSC_V</td>
<td>368 T1E</td>
<td>Databases in Data Science</td>
<td>W1</td>
<td>Overview of relational and non-relational database systems, role and usage of a database. When querying data, data modeling, query languages, and query optimization.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 368-T2A</td>
<td>CPSC_V</td>
<td>368 T2A</td>
<td>Databases in Data Science</td>
<td>W2</td>
<td>Overview of relational and non-relational database systems, role and usage of a database. When querying data, data modeling, query languages, and query optimization.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 368-T2B</td>
<td>CPSC_V</td>
<td>368 T2B</td>
<td>Databases in Data Science</td>
<td>W2</td>
<td>Overview of relational and non-relational database systems, role and usage of a database. When querying data, data modeling, query languages, and query optimization.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 368-T2C</td>
<td>CPSC_V</td>
<td>368 T2C</td>
<td>Databases in Data Science</td>
<td>W2</td>
<td>Overview of relational and non-relational database systems, role and usage of a database. When querying data, data modeling, query languages, and query optimization.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 368-T2D</td>
<td>CPSC_V</td>
<td>368 T2D</td>
<td>Databases in Data Science</td>
<td>W2</td>
<td>Overview of relational and non-relational database systems, role and usage of a database. When querying data, data modeling, query languages, and query optimization.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 368-T2E</td>
<td>CPSC_V</td>
<td>368 T2E</td>
<td>Databases in Data Science</td>
<td>W2</td>
<td>Overview of relational and non-relational database systems, role and usage of a database. When querying data, data modeling, query languages, and query optimization.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 388-601</td>
<td>CPSC_V</td>
<td>601</td>
<td>Co-operative Work Placement III</td>
<td>W1</td>
<td>Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the third year. Technical report required. Restricted to students enrolled in the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>CPSC_V 388-601</td>
<td>CPSC_V</td>
<td>601</td>
<td>Co-operative Work Placement III</td>
<td>W1</td>
<td>Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the third year. Technical report required. Restricted to students enrolled in the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>
Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.

Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the third year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.

Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the fall term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.

Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the fall term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.

Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the fall term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading.

Investigation of the practical techniques of computational linear algebra. Orthogonal transformations and their application to the solution of linear equations, the eigenproblem, and linear least squares. Complete solution of the symmetric eigenproblem, including bisection and the QR method. Refinements of these techniques for sparse matrices. [3-0-0] Prerequisite: One of CPSC 302, CPSC 303, MATH 307.

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 304 and one of CPSC 213, CPSC 261, CPEN 212.

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 304 and one of CPSC 213, CPSC 261, CPEN 212.

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 304 and one of CPSC 213, CPSC 261, CPEN 212.

Specification, design, construction and validation of multi-version software systems. [3-0-0] Prerequisite: Either (a) CPSC 302 or (b) all of CPEN 321, CPEN 331.

Concepts and design of distributed systems. Communication architectures and models for interprocess communication. Process migration, naming, distributed file systems, fault tolerance, and concurrency control. [3-0-0] Prerequisite: One of CPSC 313, CPEN 311 and one of CPSC 241, STAT 251.

Concepts and design of distributed systems. Communication architectures and models for interprocess communication. Process migration, naming, distributed file systems, fault tolerance, and concurrency control. [3-0-0] Prerequisite: One of CPSC 313, CPEN 311 and one of CPSC 241, STAT 251.

Concepts and design of distributed systems. Communication architectures and models for interprocess communication. Process migration, naming, distributed file systems, fault tolerance, and concurrency control. [3-0-0] Prerequisite: One of CPSC 313, CPEN 311 and one of CPSC 241, STAT 251.

Concepts and design of distributed systems. Communication architectures and models for interprocess communication. Process migration, naming, distributed file systems, fault tolerance, and concurrency control. [3-0-0] Prerequisite: One of CPSC 313, CPEN 311 and one of CPSC 241, STAT 251.

Network protocols and architecture including internetworking, the Internet, layered communication protocols, routing, flow and congestion control, network performance, and wireless data communications. [3-0-0] Prerequisite: All of CPSC 333, CPSC 317 and one of STAT 200, STAT 201, STAT 204, STAT 205.

Network protocols and architecture including internetworking, the Internet, layered communication protocols, routing, flow and congestion control, network performance, and wireless data communications. [3-0-0] Prerequisite: All of CPSC 333, CPSC 317 and one of STAT 200, STAT 201, STAT 204, STAT 205.

Network protocols and architecture including internetworking, the Internet, layered communication protocols, routing, flow and congestion control, network performance, and wireless data communications. [3-0-0] Prerequisite: All of CPSC 333, CPSC 317 and one of STAT 200, STAT 201, STAT 204, STAT 205.

Network protocols and architecture including internetworking, the Internet, layered communication protocols, routing, flow and congestion control, network performance, and wireless data communications. [3-0-0] Prerequisite: All of CPSC 333, CPSC 317 and one of STAT 200, STAT 201, STAT 204, STAT 205.

Network protocols and architecture including internetworking, the Internet, layered communication protocols, routing, flow and congestion control, network performance, and wireless data communications. [3-0-0] Prerequisite: All of CPSC 333, CPSC 317 and one of STAT 200, STAT 201, STAT 204, STAT 205.

Network protocols and architecture including internetworking, the Internet, layered communication protocols, routing, flow and congestion control, network performance, and wireless data communications. [3-0-0] Prerequisite: All of CPSC 333, CPSC 317 and one of STAT 200, STAT 201, STAT 204, STAT 205.

Network protocols and architecture including internetworking, the Internet, layered communication protocols, routing, flow and congestion control, network performance, and wireless data communications. [3-0-0] Prerequisite: All of CPSC 333, CPSC 317 and one of STAT 200, STAT 201, STAT 204, STAT 205.

Network protocols and architecture including internetworking, the Internet, layered communication protocols, routing, flow and congestion control, network performance, and wireless data communications. [3-0-0] Prerequisite: All of CPSC 333, CPSC 317 and one of STAT 200, STAT 201, STAT 204, STAT 205.

Network protocols and architecture including internetworking, the Internet, layered communication protocols, routing, flow and congestion control, network performance, and wireless data communications. [3-0-0] Prerequisite: All of CPSC 333, CPSC 317 and one of STAT 200, STAT 201, STAT 204, STAT 205.

Network protocols and architecture including internetworking, the Internet, layered communication protocols, routing, flow and congestion control, network performance, and wireless data communications. [3-0-0] Prerequisite: All of CPSC 333, CPSC 317 and one of STAT 200, STAT 201, STAT 204, STAT 205.

Network protocols and architecture including internetworking, the Internet, layered communication protocols, routing, flow and congestion control, network performance, and wireless data communications. [3-0-0] Prerequisite: All of CPSC 333, CPSC 317 and one of STAT 200, STAT 201, STAT 204, STAT 205.

Network protocols and architecture including internetworking, the Internet, layered communication protocols, routing, flow and congestion control, network performance, and wireless data communications. [3-0-0] Prerequisite: All of CPSC 333, CPSC 317 and one of STAT 200, STAT 201, STAT 204, STAT 205.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPSC 420-201</td>
<td>Advanced Algorithms Design and Analysis</td>
<td>3-0-1</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>CPSC 421-101</td>
<td>Introduction to Theory of Computing</td>
<td>3-0-0</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>CPSC 422-201</td>
<td>Intelligent Systems</td>
<td>3-0-1</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>CPSC 424-201</td>
<td>Geometric Modelling</td>
<td>3-0-1</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>CPSC 424-T2A</td>
<td>Geometric Modelling</td>
<td>3-0-1</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>CPSC 425-201</td>
<td>Computer Vision</td>
<td>3-0-1</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>CPSC 425-202</td>
<td>Computer Vision</td>
<td>3-0-1</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>CPSC 427-101</td>
<td>Video Game Programming</td>
<td>3-0-1</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>CPSC 427-201</td>
<td>Video Game Programming</td>
<td>3-0-1</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>CPSC 427-T1A</td>
<td>Video Game Programming</td>
<td>3-0-1</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>CPSC 427-T1B</td>
<td>Video Game Programming</td>
<td>3-0-1</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>CPSC 427-T2A</td>
<td>Video Game Programming</td>
<td>3-0-1</td>
<td>Mon Wed Fri</td>
</tr>
<tr>
<td>CPSC 427-T2B</td>
<td>Video Game Programming</td>
<td>3-0-1</td>
<td>Mon Wed Fri</td>
</tr>
</tbody>
</table>

**Description:**

- **Advanced Algorithms Design and Analysis:** The study of advanced topics in the design and analysis of algorithms and a associated data structures. Topics include algorithms for graph theoretic, algebraic, and geometric problems; algorithms on non-Cartesian models, complexity issues; approximation algorithms. Prerequisite: CPSC 320 or CPSC 321. In Person Learning | Min Wed Fri | 3:00 p.m. - 3:00 p.m.

- **Introduction to Theory of Computing:** 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 methodologies. Prerequisite: CPSC 322. In Person Learning | Min Wed Fri | 3:00 p.m. - 3:00 p.m.

- **Geometric Modelling:** 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. [3-0-0] Prerequisite: One of CPSC 221, MATH 220, MATH 221, MATH 223. In Person Learning | Min Wed Fri | 3:00 p.m. - 3:00 p.m.

- **Computer Vision:** Introduction to the processing and interpretation of images. Image sensing, sampling, and filtering. Algorithms for colour analysis, texture description, stereo imaging, motion interpretation, 3D shape recovery, and recognition. [3-0-0] Prerequisite: All of CPSC 221, MATH 220, MATH 221. In Person Learning | Tue Thu | 4:00 p.m. - 5:00 p.m.

- **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. [3-0-0] Prerequisite: One of CPSC 221, MATH 220, MATH 221, MATH 223. In Person Learning | Wed | 3:00 p.m. - 4:00 p.m.

- **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. [3-0-0] Prerequisite: One of CPSC 221, MATH 220, MATH 221, MATH 223. In Person Learning | Wed | 3:00 p.m. - 4:00 p.m.

- **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. [3-0-0] Prerequisite: One of CPSC 221, MATH 220, MATH 221, MATH 223. In Person Learning | Tue Thu | 5:00 p.m. - 6:00 p.m.

- **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. [3-0-0] Prerequisite: One of CPSC 221, MATH 220, MATH 221, MATH 223. In Person Learning | Wed | 3:00 p.m. - 4:00 p.m.

- **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. [3-0-0] Prerequisite: One of CPSC 221, MATH 220, MATH 221, MATH 223. In Person Learning | Wed | 3:00 p.m. - 4:00 p.m.

- **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. [3-0-0] Prerequisite: One of CPSC 221, MATH 220, MATH 221, MATH 223. In Person Learning | Wed | 3:00 p.m. - 4:00 p.m.
Impact of computer technology on society; historical perspectives; social and economic consequences of large-scale information processing systems and automatic control; legal and ethical problems in computer applications. Computers and the individual machine versus human capabilities, fact and fancy; problematic interface between man and machine. [3-0-0] Prerequisite: 3 credits of Computer Science and at least third-year standing.

In Person Learning  Tue Thu  5:00 p.m. - 6:30 p.m.

Impact of computer technology on society; historical perspectives; social and economic consequences of large-scale information processing systems and automatic control; legal and ethical problems in computer applications. Computers and the individual machine versus human capabilities, fact and fancy; problematic interface between man and machine. [3-0-0] Prerequisite: 3 credits of Computer Science and at least third-year standing.

In Person Learning  Tue Thu  3:30 p.m. - 4:00 p.m.

Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the Department.

In Person Learning  Tue Thu  9:00 a.m. - 10:15 a.m.

Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the Department.

In Person Learning  Tue Thu  11:00 a.m. - 12:30 p.m.

Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the Department.

In Person Learning  Tue Thu  3:30 p.m. - 5:00 p.m.

Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the Department.

In Person Learning  Mon Wed  12:30 p.m. - 2:00 p.m.

Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the Department.

In Person Learning  Mon Wed  3:00 p.m. - 4:00 p.m.

Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the Department.

In Person Learning  Wed  10:30 a.m. - 12:00 p.m.

Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the Department.

In Person Learning  Wed-Fri  10:30 a.m. - 12:00 p.m.

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. [1-0-2] Prerequisite: All of CPSC 320, CPSC 340.

In Person Learning  Arranged

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. [1-0-2] Prerequisite: All of CPSC 320, CPSC 340.

In Person Learning  Arranged

Selected topics in a specific area within Computer Science. May be taken more than once for credit with permission of the department. Prerequisite: Third-year standing in a Computer Science or Computer Engineering specialization, and permission of the Department.

In Person Learning  Arranged

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. [1-0-2] Prerequisite: All of CPSC 320, CPSC 340.

In Person Learning  Arranged

Design and evaluation methodologies and theories; formal models of the user including visual, motor, and information processing; advanced evaluation methods including laboratory experiments and field studies; HCI research frontiers; [2-2-2] Prerequisite: CPSC 340 and one of STAT 200, STAT 201, STAT 203, STAT 204, STAT 205, COMM 291, ECON 225, ECON 227, FRST 210, GEOG 374, KIN 206, KIN 271, KIN 371, PSY 218, PSY 278, PSYC 276, PSYC 346, SOC 328

In Person Learning  Fri  11:00 a.m. - 12:30 p.m.

Design and evaluation methodologies and theories; formal models of the user including visual, motor, and information processing; advanced evaluation methods including laboratory experiments and field studies; HCI research frontiers; [2-2-2] Prerequisite: CPSC 340 and one of STAT 200, STAT 201, STAT 203, STAT 204, STAT 205, COMM 291, ECON 225, ECON 227, FRST 210, GEOG 374, KIN 206, KIN 271, KIN 371, PSY 218, PSY 278, PSYC 276, PSYC 346, SOC 328

In Person Learning  Fri  4:00 p.m. - 5:00 p.m.

Design and evaluation methodologies and theories; formal models of the user including visual, motor, and information processing; advanced evaluation methods including laboratory experiments and field studies; HCI research frontiers; [2-2-2] Prerequisite: CPSC 340 and one of STAT 200, STAT 201, STAT 203, STAT 204, STAT 205, COMM 291, ECON 225, ECON 227, FRST 210, GEOG 374, KIN 206, KIN 271, KIN 371, PSY 218, PSY 278, PSYC 276, PSYC 346, SOC 328

In Person Learning  Fri  3:00 a.m. - 12:30 p.m.

Design and evaluation methodologies and theories; formal models of the user including visual, motor, and information processing; advanced evaluation methods including laboratory experiments and field studies; HCI research frontiers; [2-2-2] Prerequisite: CPSC 340 and one of STAT 200, STAT 201, STAT 203, STAT 204, STAT 205, COMM 291, ECON 225, ECON 227, FRST 210, GEOG 374, KIN 206, KIN 271, KIN 371, PSY 218, PSY 278, PSYC 276, PSYC 346, SOC 328

In Person Learning  Fri  2:00 p.m. - 4:00 p.m.
CPSC_V 447-101 CPSC_V 447 101 Introduction to Visualization W1 Design and implementation of static and interactive visualizations. Selection of appropriate visualization methods for given combinations of data type and intended analysis task. Assessment of visual representations according to design and perceptual principles. [3-0-0] (Prerequisites: One of CPSC 305, CPEN 321.) In Person Learning Arranged Arranged

CPSC_V 447-201 CPSC_V 447 201 Introduction to Visualization W2 Design and implementation of static and interactive visualizations. Selection of appropriate visualization methods for given combinations of data type and intended analysis task. Assessment of visual representations according to design and perceptual principles. [3-0-0] (Prerequisites: One of CPSC 305, CPEN 321.) In Person Learning Tue 2:00 p.m. - 3:00 p.m.

CPSC_V 448-A_001 CPSC_V 448 A A_001 Directed Studies in Computer Science W1-2 Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged

CPSC_V 448-A_101 CPSC_V 448 A A_101 Directed Studies in Computer Science W1 Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged

CPSC_V 448-A_201 CPSC_V 448 A A_201 Directed Studies in Computer Science W2 Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged

CPSC_V 448-B_101 CPSC_V 448 B B_101 Directed Studies in Computer Science W1-2 Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged

CPSC_V 448-B_110 CPSC_V 448 B B_110 Directed Studies in Computer Science W1 Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged

CPSC_V 448-B_201 CPSC_V 448 B B_201 Directed Studies in Computer Science W2 Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged

CPSC_V 448-C_001 CPSC_V 448 C C_001 Directed Studies in Computer Science W1-2 Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged

CPSC_V 448-C_008 CPSC_V 448 C C_008 Directed Studies in Computer Science W1 Open ordinarily to students in Computer Science with at least a 72% average and permission of the department. The course may consist of supervised reading, participation in a seminar, and one or more programming projects. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged

CPSC_V 448-E_001 CPSC_V 448 E E_001 Honors Thesis W1-2 Under supervision of a faculty member, students investigate a research topic and prepare a thesis. (3-0-0) (Prerequisites: CPSC 305 and CPEN 321.) In Person Learning Arranged Arranged

CPSC_V 480-A_201 CPSC_V 480 A A_201 Directed Seminars W2 Self-directed, collaborative studies, in a group-learning environment, initiated and coordinated by senior undergraduate students with the supervision of a faculty advisor. Course structure, enrolment and delivery methods will comply with the Handbook for Student Directed Seminars. [3-0-0] In Person Learning Arranged Arranged

CPSC_V 491-201 CPSC_V 491 201 Interactive Digital Media Practicum W2 Design and implementation of interactive digital media systems using modern processes and tools. Projects provided by external clients or vetted entrepreneurial pitches are developed by interdisciplinary teams composed of one CPSC 491 student and multiple Master of Digital Media students. This course is not eligible for Credit/D/Fail grading. (Prerequisite: All of CPSC 211, CPSC 310, CPSC 394, and Third-year standing.) In Person Learning Arranged Arranged

CPSC_V 499-A_01 CPSC_V 499 A_001 Co-operative Work Placement V W1-2 Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

CPSC_V 499-B_01 CPSC_V 499 B_001 Co-operative Work Placement V W1 Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

CPSC_V 499-G_01 CPSC_V 499 G_001 Co-operative Work Placement V W2 Approved and supervised technical work experience in the computing industry for a minimum of 3.5 months. Normally taken during the summer following the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Computer Science. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

CPSC_V 501-101 CPSC_V 501 101 Theory of Automata, Formal Languages and Computability W1 This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Fri 11:00 a.m. - 12:30 p.m.

CPSC_V 507-101 CPSC_V 507 101 Software Engineering W1 This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 10:00 a.m. - 11:30 a.m.

CPSC_V 508-201 CPSC_V 508 201 Operating Systems W2 This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Fri 8:30 a.m. - 11:08 a.m.

CPSC_V 513-101 CPSC_V 513 101 Introduction to Formal Verification and Analysis W1 This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.
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<td>Human Computer Interaction</td>
<td>W2</td>
<td>L2A</td>
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<td>W2</td>
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<td>Algorithms for Bioinformatics</td>
<td>W1</td>
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<td>W1-2</td>
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<td>Directed Study</td>
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<td>Directed Study</td>
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<td>CPSC_V 548-A_001</td>
<td>Master's Thesis</td>
<td>W1-2</td>
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<td>Master's Thesis</td>
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<td>Master's Thesis</td>
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<td>CPSC_V 550-201</td>
<td>Machine Learning II</td>
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<td>CPSC_V 550-T2A</td>
<td>Machine Learning II</td>
<td>W2</td>
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<td>Machine Learning II</td>
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<td>Machine Learning II</td>
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<td>CPSC_V 554-A_101</td>
<td>Topics in Human-Computer Interaction</td>
<td>W1</td>
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<td>CPSC_V 554-C_201</td>
<td>Topics in Human-Computer Interaction</td>
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<td>Topics in Human-Computer Interaction</td>
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<tr>
<td>CPSC_V 554-Y_201</td>
<td>Topics in Human-Computer Interaction</td>
<td>W2</td>
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<td>CPSC_V 589-001</td>
<td>M.Sc. Major Essay</td>
<td>W1-2</td>
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<td>CPSC_V 589-101</td>
<td>M.Sc. Major Essay</td>
<td>W1</td>
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<td>CPSC_V 589-201</td>
<td>M.Sc. Major Essay</td>
<td>W2</td>
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<tr>
<td>CPSC_V 649-001</td>
<td>Doctoral Dissertation</td>
<td>W1-2</td>
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<tr>
<td>CPSC_V 649-101</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
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<tr>
<td>CPSC_V 649-201</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
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</table>
An examination of and practice in creative writing in comedic forms, including stand-up, sketch, film, stageplay.

Covers three genres from fiction, poetry, creative nonfiction, screenplay, stageplay, graphic forms, lyric forms, children’s literature, and writing for new media. Manuscript submission is not required for admission.

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.

Techniques of and practice in multiple genres of writing, including fiction, poetry, creative nonfiction, screenplay, stageplay, graphic forms, lyric forms, children’s literature, and writing for new media. Manuscript submission is not required for admission.

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.

Techniques of and practice in multiple genres of writing, including fiction, poetry, creative nonfiction, screenplay, stageplay, graphic forms, lyric forms, children’s literature, and writing for new media. Manuscript submission is not required for admission.

An examination 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.

Techniques of and practice in creative writing with an Indigenous Focus. Covers three genres from fiction, poetry, creative nonfiction, radio drama, radio feature, or stageplay.

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.

Techniques of and practice in multiple genres of writing, including fiction, poetry, creative nonfiction, screenplay, stageplay, graphic forms, lyric forms, children’s literature, and writing for new media. Manuscript submission is not required for admission.

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.
CRWR_V 230-002
CRWR_V 210 002
Introduction to Writing for Comedic Forms
W2
An exploration of and practice in writing in comedic forms, including stand-up, sketch, film, new media, and text. Manuscript submission not required for admission.
In Person Learning Wed
5:00 p.m. - 6:30 p.m.

CRWR_V 230-002
CRWR_V 301 002
Intermediate Writing for Podcast
W2
The writing of poetry in various forms using a combination of workshopping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 201.
In Person Learning Arranged
Arranged

CRWR_V 301-LS1
CRWR_V 301 111
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 201.
In Person Learning Thu
10:00 a.m. - 12:30 p.m.

CRWR_V 301-LS2
CRWR_V 301 152
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 201.
In Person Learning Thu
10:00 a.m. - 12:30 p.m.

CRWR_V 301-LS3
CRWR_V 301 153
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 201.
In Person Learning Thu
10:00 a.m. - 12:30 p.m.

CRWR_V 302-002
CRWR_V 302 002
Writing for Podcast
W2
Exploration of and practice in writing for podcast. Prerequisite: CRWR 230.
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 203.
In Person Learning Arranged
Arranged

CRWR_V 303-LS1
CRWR_V 303 151
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 203.
In Person Learning Tue
10:00 a.m. - 12:30 p.m.

CRWR_V 303-LS2
CRWR_V 303 152
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 203.
In Person Learning Tue
10:00 a.m. - 12:30 p.m.

CRWR_V 303-002
CRWR_V 305 002
Intermediate Writing of Creative Nonfiction
W2
An exploration of and practice in the writing of creative non-fiction, covering four of the more basic forms of this genre: memoir, profile, commentary, and exposition. Manuscript submission is not required for admission. Prerequisite: CRWR 205.
In Person Learning Arranged
Arranged

CRWR_V 305-002
CRWR_V 305 001
Intermediate Writing Poetry
W2
The writing of poetry in various forms using a combination of workshopping and online modules. Manuscript submission is not required for admission. Prerequisite: CRWR 205.
In Person Learning Wed
2:00 p.m. - 4:00 p.m.

CRWR_V 305-LS2
CRWR_V 305 152
Intermediate Writing of Creative Nonfiction
W2
An exploration of and practice in the writing of creative non-fiction, covering four of the more basic forms of this genre: memoir, profile, commentary, and exposition. Manuscript submission is not required for admission. Prerequisite: CRWR 205.
In Person Learning Wed
2:00 p.m. - 4:00 p.m.

CRWR_V 305-002
CRWR_V 306 002
Intermediate Writing of Creative Nonfiction
W2
An exploration of and practice in the writing of creative non-fiction, covering four of the more basic forms of this genre: memoir, profile, commentary, and exposition. Manuscript submission is not required for admission. Prerequisite: CRWR 205.
In Person Learning Wed
2:00 p.m. - 4:00 p.m.

CRWR_V 306-002
CRWR_V 306 002
Intermediate Writing for the Screen
W2
An exploration of and practice in writing for the screen, focusing on how a writer employs the technical elements of the craft of screenwriting. Manuscript submission is not required for admission. Prerequisite: CRWR 206.
In Person Learning Arranged
Arranged

CRWR_V 306-002
CRWR_V 306 002
Intermediate Writing for the Screen
W2
An exploration of and practice in writing for the screen, focusing on how a writer employs the technical elements of the craft of screenwriting. Manuscript submission is not required for admission. Prerequisite: CRWR 206.
In Person Learning Thu
12:00 p.m. - 1:00 p.m.

CRWR_V 306-LS1
CRWR_V 306 111
Intermediate Writing for the Screen
W2
An exploration of and practice in writing for the screen, focusing on how a writer employs the technical elements of the craft of screenwriting. Manuscript submission is not required for admission. Prerequisite: CRWR 206.
In Person Learning Thu
12:00 p.m. - 1:00 p.m.

CRWR_V 306-LS2
CRWR_V 306 152
Intermediate Writing for the Screen
W2
An exploration of and practice in writing for the screen, focusing on how a writer employs the technical elements of the craft of screenwriting. Manuscript submission is not required for admission. Prerequisite: CRWR 206.
In Person Learning Thu
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 203.
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 203.
In Person Learning Wed 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 (comix, manga and graphic novels), using a combination of workshopping and online modules. Manuscript submission not required for admission. Prerequisite: CRWR 208.
In Person Learning Fri
12:00 p.m. - 2:00 p.m.

CRWR_V 309-001
CRWR_V 309 001
Intermediate Writing Fiction
W1
An exploration of the writing of fiction, focusing on how a writer employs the technical elements of the craft of fiction. Manuscript submission not required for admission. Prerequisite: CRWR 209.
Online Learning Arranged
Arranged

CRWR_V 309-002
CRWR_V 309 002
Intermediate Writing Fiction
W1
An exploration of the writing of fiction, focusing on how a writer employs the technical elements of the craft of fiction. Manuscript submission not required for admission. Prerequisite: CRWR 209.
In Person Learning Arranged
Arranged

CRWR_V 309-LS1
CRWR_V 309 151
Intermediate Writing Fiction
W1
An exploration of the writing of fiction, focusing on how a writer employs the technical elements of the craft of fiction. Manuscript submission not required for admission. Prerequisite: CRWR 209.
In Person Learning Wed
2:00 p.m. - 4:00 p.m.

CRWR_V 309-LS2
CRWR_V 309 152
Intermediate Writing Fiction
W1
An exploration of the writing of fiction, focusing on how a writer employs the technical elements of the craft of fiction. Manuscript submission not required for admission. Prerequisite: CRWR 209.
In Person Learning Wed
2:00 p.m. - 4:00 p.m.
<p>| CRWR_V 309-013 | CRWR_V 309-014 | 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 206. In Person Learning | Wed | 2:00 p.m. - 4:00 p.m. |
| CRWR_V 309-014 | CRWR_V 309-015 | 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 206. In Person Learning | Wed | 2:00 p.m. - 4:00 p.m. |
| CRWR_V 310-001 | CRWR_V 310-002 | Video Game Writing and Narrative | W1 | Narrative design and writing for video games. Prerequisite: CRWR 230. In Person Learning | Tue | 5:00 p.m. - 7:00 p.m. |
| CRWR_V 311-002 | CRWR_V 311-003 | Intermediate Writing for Lyric Forms | W2 | Techniques of and practice in writing for lyric forms, including song lyrics, lyrical narratives, and free verse. Manuscript submission is not required for admission. Prerequisite: CRWR 206. In Person Learning | Tue | 5:10 p.m. - 8:10 p.m. |
| CRWR_V 312-001 | CRWR_V 312-002 | Interactive Storytelling | W1 | Origins, theory and practice of interactive story forms, exploring structural links between interactive theatre, gaming, and extended digital, mixed, and augmented reality. Prerequisite: One of CRWR 213 or B.M.S. student with 3rd year standing or higher. In Person Learning | Thu | 5:00 p.m. - 8:00 p.m. |
| CRWR_V 316-001 | CRWR_V 316-002 | Intermediate Writing for Television | W1 | Elements of episodic and serialized comedic and dramatic television writing with writing practice applied to primary formats and genres. Prerequisite: CRWR 206. In Person Learning | Tue | 7:00 p.m. - 10:00 p.m. |
| CRWR_V 319-001 | CRWR_V 319-002 | Writing Genre Fiction | W1 | Exploration and practice in writing major genres of genre fiction, including fantasy, science fiction, romance, crime, horror, and historical fiction. Prerequisite: All of CRWR 200, CRWR 206. In Person Learning | Tue Thu | 9:30 a.m. - 11:00 a.m. |
| CRWR_V 320-001 | CRWR_V 320-002 | Intermediate Comic Book Forms | W1 | Contemporary and historical comedic writing in a variety of forms. Emphasis on critical analysis and creative writing of comedic works, and changes in the comedic landscape. Recommended: CRWR 230 Prerequisite: CRWR 230. In Person Learning | Wed | 4:00 p.m. - 8:00 p.m. |
| CRWR_V 321-T_001 | CRWR_V 321-T_001 | Intermediate Poetry Workshop | W1 | An intermediate level workshop class in writing poetry. Manuscript submission is not required for admission. Prerequisite: CRWR 301. In Person Learning | Tue | 10:00 a.m. - 12:00 p.m. |
| CRWR_V 323-U_002 | CRWR_V 323-U_002 | Intermediate Children and Young Adult Writing Workshop | W2 | An intermediate level workshop class in writing for children and young adults. Manuscript submission is not required for admission. Prerequisite: CRWR 301. In Person Learning | Tue | 2:00 p.m. - 4:00 p.m. |
| CRWR_V 326-U_002 | CRWR_V 326-U_002 | Intermediate Screenplay Workshop | W2 | An intermediate level workshop class in writing for the screen. Manuscript submission is not required for admission. Prerequisite: CRWR 306. In Person Learning | Wed | 3:00 p.m. - 6:00 p.m. |
| CRWR_V 328-U_002 | CRWR_V 328-U_002 | Intermediate Graphic Forms Workshop | W2 | An intermediate level workshop class in writing for graphic forms. The ability to draw is not required. Manuscript submission is not required for admission. Prerequisite: CRWR 306. In Person Learning | Thu | 11:00 a.m. - 1:00 p.m. |
| CRWR_V 329-T_001 | CRWR_V 329-T_001 | Intermediate Fiction Workshop | W1 | An intermediate level workshop class in writing of fiction. Manuscript submission is not required for admission. Prerequisite: CRWR 306. In Person Learning | Tue | 12:00 p.m. - 2:00 p.m. |
| CRWR_V 330-U_002 | CRWR_V 330-U_002 | Intermediate Fiction Workshop | W2 | An intermediate level workshop class in writing of fiction. Manuscript submission is not required for admission. Prerequisite: CRWR 306. In Person Learning | Wed | 12:00 p.m. - 2:00 p.m. |
| CRWR_V 401-T_001 | CRWR_V 401-T_001 | Writing Poetry I | W1 | A workshop class in the writing of poetry. Prerequisite: Restricted to Majors in Creative Writing. In Person Learning | Thu | 10:00 a.m. - 12:00 p.m. |
| CRWR_V 401-U_002 | CRWR_V 401-U_002 | Writing Poetry I | W2 | A workshop class in the writing of poetry. Prerequisite: Restricted to Majors in Creative Writing. Online Learning | Thu | 2:00 p.m. - 4:00 p.m. |
| CRWR_V 402-U_002 | CRWR_V 402-U_002 | Writing for New Media I | W2 | An advanced workshop class in writing for new media. Restricted to Majors in Creative Writing. In Person Learning | Wed | 12:00 p.m. - 2:00 p.m. |
| CRWR_V 403-T_001 | CRWR_V 403-T_001 | Writing for Children and Young Adults I | W1 | A workshop class in writing for children and young adults. Prerequisite: Restricted to Majors in Creative Writing. Online Learning | Thu | 2:00 p.m. - 4:00 p.m. |
| CRWR_V 405-T_001 | CRWR_V 405-T_001 | Writing Creative Nonfiction I | W1 | A workshop class in writing creative nonfiction, focused on some of the more popular forms of creative nonfiction: autobiography, memoir (commentary), literary journalism, and the personal essay. Prerequisite: Restricted to Majors in Creative Writing. In Person Learning | Thu | 10:00 a.m. - 12:00 p.m. |
| CRWR_V 406-T_001 | CRWR_V 406-T_001 | Writing for the Screen I | W1 | A workshop class in writing for the screen. Prerequisite: Restricted to Majors in Creative Writing. In Person Learning | Thu | 12:00 p.m. - 2:00 p.m. |
| CRWR_V 406-U_004 | CRWR_V 406-U_004 | Writing for the Screen I | W2 | A workshop class in writing for the screen. Prerequisite: Restricted to Majors in Creative Writing. In Person Learning | Thu | 10:00 a.m. - 12:00 p.m. |
| CRWR_V 407-T_001 | CRWR_V 407-T_001 | Writing of Drama for the Stage I | W1 | A workshop class in writing of drama for the stage. Studio work is required, and some classes may be given live stage productions in Brave New Play Rites (judicialization process involved). Prerequisite: Restricted to Majors in Creative Writing. In Person Learning | Wed | 12:00 p.m. - 2:00 p.m. |
| CRWR_V 408-T_001 | CRWR_V 408-T_001 | Writing for Graphic Forms I | W1 | A workshop class in the writing of graphic novel, manga, and other forms of illustrated writing. The ability to draw is not required. Prerequisite: Restricted to Majors in Creative Writing. Online Learning | Fri | 10:00 a.m. - 12:00 p.m. |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Description</th>
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<tbody>
<tr>
<td>CRWR 409-T_001</td>
<td>W1</td>
<td>T_001</td>
<td>Writing Fiction I</td>
<td>A workshop class in the writing of fiction. Prerequisite: Restricted to Majors in Creative Writing.</td>
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<tr>
<td>CRWR 409-T_003</td>
<td>W1</td>
<td>T_003</td>
<td>Writing Fiction I</td>
<td>A workshop class in the writing of fiction. Prerequisite: Restricted to Majors in Creative Writing.</td>
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<tr>
<td>CRWR 409-U_002</td>
<td>W2</td>
<td>U_002</td>
<td>Writing Fiction I</td>
<td>A workshop class in the writing of fiction. Prerequisite: Restricted to Majors in Creative Writing.</td>
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<td>CRWR 409-U_005</td>
<td>W2</td>
<td>U_005</td>
<td>Writing Fiction I</td>
<td>A workshop class in the writing of fiction. Prerequisite: Restricted to Majors in Creative Writing.</td>
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<tr>
<td>CRWR 460-T_001</td>
<td>W1</td>
<td>T_001</td>
<td>Video Game Writing</td>
<td>A workshop class on writing for video games. Restricted to Creative Writing majors.</td>
</tr>
<tr>
<td>CRWR 461-U_002</td>
<td>W2</td>
<td>U_002</td>
<td>Video Game Writing</td>
<td>A workshop class on writing for video games. Restricted to Creative Writing majors.</td>
</tr>
<tr>
<td>CRWR 465-U_002</td>
<td>W2</td>
<td>U_002</td>
<td>Workshop in Literary Translation I</td>
<td>A workshop class in literary translation. Restricted to Majors in Creative Writing. Prerequisite: Proficiency in a language other than English.</td>
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<tr>
<td>CRWR 466-T_001</td>
<td>W1</td>
<td>T_001</td>
<td>Writing for Television I</td>
<td>A workshop class in writing for television. Prerequisite: Restricted to Majors in Creative Writing.</td>
</tr>
<tr>
<td>CRWR 466-U_002</td>
<td>W2</td>
<td>U_002</td>
<td>Writing for Television I</td>
<td>A workshop class in writing for television. Prerequisite: Restricted to Majors in Creative Writing.</td>
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<tr>
<td>CRWR 469-T_001</td>
<td>W1</td>
<td>T_001</td>
<td>Writing Speculative Fiction</td>
<td>A workshop-based class focused on writing speculative fiction, including fantasy, science fiction, and horror; emphasis on reading various genres and peer feedback.</td>
</tr>
<tr>
<td>CRWR 469-U_002</td>
<td>W2</td>
<td>U_002</td>
<td>Writing Speculative Fiction</td>
<td>A workshop-based class focused on writing speculative fiction, including fantasy, science fiction, and horror; emphasis on reading various genres and peer feedback.</td>
</tr>
<tr>
<td>CRWR 470-T_001</td>
<td>W1</td>
<td>T_001</td>
<td>Indigenous Writing</td>
<td>Advanced study of contemporary Indigenous writing in North America across genres focusing on the production of critical and creative writing about coloniality, race, history, and identity. Prerequisite: Restricted to Majors in Creative Writing.</td>
</tr>
<tr>
<td>CRWR 472-U_002</td>
<td>W2</td>
<td>U_002</td>
<td>Climate Writing</td>
<td>Workshop-based class focused on writing related to climate change and environmental issues; emphasis on reading various genres and peer feedback. Restricted to Creative Writing majors. A maximum of 6 credits is permitted between CRWR 425 and 525.</td>
</tr>
<tr>
<td>CRWR 480-U_001</td>
<td>W1</td>
<td>U_001</td>
<td>Preparation for a Career in Writing</td>
<td>A workshop class exploring comedic writing in varied forms including film and television, prose and poetry, non-fiction, and new media. This course is restricted to students in the CRWR BFA program.</td>
</tr>
<tr>
<td>CRWR 491-U_001</td>
<td>W1</td>
<td>U_001</td>
<td>Advanced Comic Forms</td>
<td>Group projects and workshops with students majoring in other creative arts. Prerequisite: Permission of instructor. Credit will be granted for only one of CRWR 491, THTR 469, VISA 469, MUSC 469.</td>
</tr>
<tr>
<td>CRWR 494-T_001</td>
<td>W1</td>
<td>T_001</td>
<td>Interdisciplinary Projects</td>
<td>Workshop-based class focused on writing related to climate change and environmental issues; emphasis on reading various genres and peer feedback. Restricted to Creative Writing majors. A maximum of 6 credits is permitted between CRWR 425 and 525.</td>
</tr>
<tr>
<td>CRWR 495-T_001</td>
<td>W1</td>
<td>T_001</td>
<td>Writing Poetry II</td>
<td>An advanced workshop class in writing poetry. Restricted to Majors in Creative Writing. Prerequisite: CRWR 490.</td>
</tr>
<tr>
<td>CRWR 495-U_002</td>
<td>W2</td>
<td>U_002</td>
<td>Writing for Children and Young Adults II</td>
<td>An advanced workshop class in writing for children and young adults. Restricted to Majors in Creative Writing. Prerequisite: CRWR 490.</td>
</tr>
<tr>
<td>CRWR 495-U_003</td>
<td>W2</td>
<td>U_003</td>
<td>Writing Creative Nonfiction II</td>
<td>An advanced workshop class focusing on memoir, biography, Hermitic, literary journalism, the personal essay, and other hybrid forms of creative non-fiction. Includes instruction in researching and interviewing techniques. Restricted to Majors in Creative Writing. Prerequisite: CRWR 490.</td>
</tr>
<tr>
<td>CRWR 495-U_003</td>
<td>W2</td>
<td>U_003</td>
<td>Writing for the Screen II</td>
<td>An advanced workshop class in writing for the screen. Restricted to Majors in Creative Writing. Prerequisite: CRWR 490.</td>
</tr>
<tr>
<td>CRWR 495-U_003</td>
<td>W2</td>
<td>U_003</td>
<td>Writing of Drama for the Stage II</td>
<td>An advanced workshop class in writing for the stage. Studio work is required. Assumes a greater level of experience in writing for the stage than CRWR 407. Prerequisite: Restricted to Majors in Creative Writing.</td>
</tr>
<tr>
<td>CRWR 495-U_003</td>
<td>W2</td>
<td>U_003</td>
<td>Writing Fiction II</td>
<td>An advanced workshop class in writing fiction. Restricted to Majors in Creative Writing. Prerequisite: CRWR 490.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Section</td>
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<tr>
<td>CRWR_V 501-T_001</td>
<td>501 T</td>
<td>T</td>
<td>Advanced Writing of Poetry I</td>
<td>W1</td>
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<td>CRWR_V 501-T_001</td>
<td>501 T</td>
<td>T_001</td>
<td>Advanced Writing of Poetry I</td>
<td>W1</td>
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<td>CRWR_V 501-U_002</td>
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<td>U_002</td>
<td>Advanced Writing of Poetry I</td>
<td>W2</td>
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<td>CRWR_V 501-T_001</td>
<td>503 T</td>
<td>T</td>
<td>Advanced Writing for Children I</td>
<td>W1</td>
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<td>CRWR_V 501-T_001</td>
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<td>T_001</td>
<td>Advanced Writing for Children I</td>
<td>W1</td>
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<td>CRWR_V 501-U_002</td>
<td>503 U</td>
<td>U</td>
<td>Advanced Writing for Children I</td>
<td>W2</td>
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<tr>
<td>CRWR_V 501-U_002</td>
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<td>U_002</td>
<td>Advanced Writing for Children I</td>
<td>W2</td>
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<td>CRWR_V 503-T_001</td>
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<td>Advanced Writing for Creative Non-Fiction I</td>
<td>W1</td>
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<td>CRWR_V 503-T_001</td>
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<td>Advanced Writing for Creative Non-Fiction I</td>
<td>W2</td>
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<td>CRWR_V 503-U_002</td>
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<td>Advanced Writing for Creative Non-Fiction I</td>
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<td>Advanced Writing of Drama For Screen I</td>
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<td>Advanced Writing of Drama For the Stage I</td>
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<td>Advanced Writing of Drama For the Stage I</td>
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<td>U_002</td>
<td>Advanced Writing of Drama For the Stage I</td>
<td>W2</td>
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<td>CRWR_V 508-T_001</td>
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<td>T_001</td>
<td>Advanced Writing for Graphic Forms I</td>
<td>W1</td>
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<td>CRWR_V 509-T_001</td>
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<td>Advanced Writing of Fiction I</td>
<td>W1</td>
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<td>T_001</td>
<td>Advanced Writing of Fiction I</td>
<td>W1</td>
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<tr>
<td>CRWR_V 509-T_001</td>
<td>509 T</td>
<td>T_001</td>
<td>Advanced Writing of Fiction I</td>
<td>W1</td>
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CRWR_V 511-U_002 CRWR_V 511-U_002 Advanced Writing for Lyric Forms I W2 This course is not eligible for Credit/D/Fail grading. In-Person Learning Wed 12:00 a.m. - 2:00 p.m.

CRWR_V 511-U_002 CRWR_V 511-U_002 Advanced Writing for Lyric Forms I W2 This course is not eligible for Credit/D/Fail grading. In-Person Learning Wed 4:00 p.m. - 6:00 p.m.

CRWR_V 514-U_001 CRWR_V 514-U_001 Advanced Writing for Television I W1 This course is not eligible for Credit/D/Fail grading. In-Person Learning Thu 12:00 a.m. - 2:00 p.m.

CRWR_V 514-U_002 CRWR_V 514-U_002 Advanced Writing for Television I W2 This course is not eligible for Credit/D/Fail grading. In-Person Learning Thu 10:00 a.m. - 12:00 p.m.

CRWR_V 514-U_002 CRWR_V 514-U_002 Advanced Writing for Television I W2 This course is not eligible for Credit/D/Fail grading. Online Learning Arranged Arranged

CRWR_V 514-U_002 CRWR_V 514-U_002 Advanced Writing for Television I W2 This course is not eligible for Credit/D/Fail grading. Online Learning Arranged Arranged

CRWR_V 519-U_001 CRWR_V 519-U_001 Writing Speculative Fiction W1 MFA Program in Creative Writing. A maximum of 6 credits is permitted between CRWR 425 and 525. This course is not eligible for Credit/D/Fail grading. In-Person Learning Fri 12:00 p.m. - 2:00 p.m.

CRWR_V 519-U_001 CRWR_V 519-U_001 Writing Speculative Fiction W1 MFA Program in Creative Writing. A maximum of 6 credits is permitted between CRWR 425 and 525. This course is not eligible for Credit/D/Fail grading. In-Person Learning Fri 10:00 a.m. - 12:00 p.m.

CRWR_V 521-U_001 CRWR_V 521-U_001 Indigenous Writing W1 Advanced study of contemporary Indigenous writing in North America across genres focusing on the production of critical and creative writing about coloniality, race, history, and identity. A maximum of 6 credits is permitted from CRWR 420, CRWR 521. This course is not eligible for Credit/D/Fail grading. In-Person Learning Fri 10:00 a.m. - 12:00 p.m.

CRWR_V 521-U_001 CRWR_V 521-U_001 Indigenous Writing W1 Advanced study of contemporary Indigenous writing in North America across genres focusing on the production of critical and creative writing about coloniality, race, history, and identity. A maximum of 6 credits is permitted from CRWR 420, CRWR 521. This course is not eligible for Credit/D/Fail grading. In-Person Learning Fri 10:00 a.m. - 12:00 p.m.

CRWR_V 525-U_002 CRWR_V 525-U_002 Climate Writing W2 Advanced workshop-based class focused on writing related to climate change and environmental issues; emphasis on reading various genres and peer feedback. Restricted to graduate students in the MFA Program in Creative Writing. A maximum of 6 credits is permitted between CRWR 425 and 525. This course is not eligible for Credit/D/Fail grading. In-Person Learning Thu 12:00 a.m. - 2:00 p.m.

CRWR_V 525-U_002 CRWR_V 525-U_002 Climate Writing W2 Advanced workshop-based class focused on writing related to climate change and environmental issues; emphasis on reading various genres and peer feedback. Restricted to graduate students in the MFA Program in Creative Writing. A maximum of 6 credits is permitted between CRWR 425 and 525. This course is not eligible for Credit/D/Fail grading. In-Person Learning Thu 10:00 a.m. - 12:00 p.m.

CRWR_V 530-U_001 CRWR_V 530-U_001 Preparation for a Career in Writing W1 Pass/Fail. Credit will be granted for only one of CRWR 430 or CRWR 530. In-Person Learning Wed 10:00 a.m. - 12:00 p.m.

CRWR_V 530-U_002 CRWR_V 530-U_002 Preparation for a Career in Writing W2 Pass/Fail. Credit will be granted for only one of CRWR 430 or CRWR 530. Online Learning Arranged Arranged

CRWR_V 530-U_002 CRWR_V 530-U_002 Preparation for a Career in Writing W2 Pass/Fail. Credit will be granted for only one of CRWR 430 or CRWR 530. Online Learning Arranged Arranged

CRWR_V 550-U_002 CRWR_V 550-U_002 Advanced Writing for Graphic Forms II W2 This course is not eligible for Credit/D/Fail grading. Online Learning Arranged Arranged

CRWR_V 570-U_002 CRWR_V 570-U_002 Advanced Special Projects in Creative Writing W2 This course is not eligible for Credit/D/Fail grading. In-Person Learning Wed 10:00 a.m. - 12:00 p.m.

CRWR_V 599-100 CRWR_V 599-100 Thesis W1-2 This course is not eligible for Credit/D/Fail grading. In-Person Learning Arranged Arranged

CRWR_V 599-200 CRWR_V 599-200 Thesis W1 This course is not eligible for Credit/D/Fail grading. In-Person Learning Arranged Arranged

CRWR_V 599-020 CRWR_V 599-020 Thesis W1-2 This course is not eligible for Credit/D/Fail grading. Online Learning Arranged Arranged
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Time</th>
<th>Credits</th>
<th>Days</th>
<th>Location</th>
<th>Notes</th>
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<td>CRWR_V 599-021</td>
<td>Thesis</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>CSIS_V 200-101</td>
<td>Critical Engagements in Sexuality Studies</td>
<td>W1</td>
<td>Introductory survey to sexuality studies that emphasizes how sexuality intersects with race, gender, class, disability, and geography. Recommended pre-requisite: GRSJ 101.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>CSIS_V 200-A_201</td>
<td>Introduction to Critical Studies in Sexuality</td>
<td>W2</td>
<td>A multi-disciplinary course which provides an introduction to the study of sexuality, including lesbian, gay, bisexual, transgender, and nonbinary issues and related topics.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:30 a.m.</td>
</tr>
<tr>
<td>CSIS_V 301-101</td>
<td>Introduction to Trans* Studies</td>
<td>W1</td>
<td>New trans, cisgender, gender, sexuality, culture and disability are materially and socially constructed together to give meaning to the category trans* (Trans* = transgender, transsexual, gender variant and other articulations). Recommended pre-requisite: CRWR 101.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>CSIS_V 400-B_201</td>
<td>Topics in Critical Studies in Sexuality</td>
<td>W2</td>
<td>A thematic course, which explores current questions and issues in relation to the study of sexuality. Topics may vary from year to year.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>12:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>DENT_V 400-A_101</td>
<td>Directed Topics</td>
<td>W1</td>
<td>Designed to allow a student to develop an individual course of study in a specific area as approved by a faculty member affiliated with the CIIP program.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>DENT_V 400-B_201</td>
<td>Directed Topics</td>
<td>W2</td>
<td>Designed to allow a student to develop an individual course of study in a specific area as approved by a faculty member affiliated with the CIIP program.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>DENT_V 400-C_001</td>
<td>Directed Topics</td>
<td>W1-2</td>
<td>Designed to allow a student to develop an individual course of study in a specific area as approved by a faculty member affiliated with the CIIP program.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
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<tr>
<td>DENT_V 500-C_201</td>
<td>Critical Studies in Sexuality: Multi-disciplinary Approaches</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>12:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>DANI_V 100-101</td>
<td>Elementary Danish I</td>
<td>W1</td>
<td>Students with native or near-native proficiency in a Scandinavian language (e.g. Danish, Norwegian, Swedish) cannot participate in the elementary Danish courses (DANI 100 and DANI 110), but are welcome to join the intermediate courses (DANI 200 and DANI 210).</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:30 a.m.</td>
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<tr>
<td>DANI_V 110-201</td>
<td>Elementary Danish II</td>
<td>W2</td>
<td>Students with native or near-native proficiency in a Scandinavian language (e.g. Danish, Norwegian, Swedish) cannot participate in the elementary Danish courses (DANI 100 and DANI 110), but are welcome to join the intermediate courses (DANI 200 and DANI 210).</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:30 a.m.</td>
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<tr>
<td>DANI_V 200-101</td>
<td>Intermediate Danish I</td>
<td>W1</td>
<td>Students with native or near-native proficiency in a Scandinavian language (e.g. Danish, Norwegian, Swedish) cannot participate in the elementary Danish courses (DANI 100 and DANI 110), but are welcome to join the intermediate courses (DANI 200 and DANI 210).</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>DANI_V 210-301</td>
<td>Intermediate Danish II</td>
<td>W2</td>
<td>Students with native or near-native proficiency in a Scandinavian language (e.g. Danish, Norwegian, Swedish) cannot participate in the elementary Danish courses (DANI 100 and DANI 110), but are welcome to join the intermediate courses (DANI 200 and DANI 210).</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>DENT_V 410-301</td>
<td>Dentistry I: Foundations of Clinical Dentistry</td>
<td>W1-2</td>
<td>Fundamentals of human biology, body systems, diseases, and supporting basic oral health sciences. Learning in small groups, classroom, laboratory, and clinical settings utilizing technology. Professionalism, ethics, interpersonal education and the social contract, communication skills, and critical evaluation of the literature. Begins to apply foundation knowledge and skills to patient assessment and care. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Tue Wed Thu Fri</td>
<td>8:00 a.m. - 1:00 p.m.</td>
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<tr>
<td>DENT_V 410-DMD</td>
<td>Dentistry I: Foundations of Clinical Dentistry</td>
<td>W1</td>
<td>Fundamentals of human biology, body systems, diseases, and supporting basic oral health sciences. Learning in small groups, classroom, laboratory, and clinical settings utilizing technology. Professionalism, ethics, interpersonal education and the social contract, communication skills, and critical evaluation of the literature. Begins to apply foundation knowledge and skills to patient assessment and care. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>DENT_V 410-DPH</td>
<td>Dentistry I: Foundations of Clinical Dentistry</td>
<td>W2</td>
<td>Fundamentals of human biology, body systems, diseases, and supporting basic oral health sciences. Learning in small groups, classroom, laboratory, and clinical settings utilizing technology. Professionalism, ethics, interpersonal education and the social contract, communication skills, and critical evaluation of the literature. Begins to apply foundation knowledge and skills to patient assessment and care. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>2:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>DENT_V 410-NMS</td>
<td>Dentistry I: Foundations of Clinical Dentistry</td>
<td>W1-2</td>
<td>Fundamentals of human biology, body systems, diseases, and supporting basic oral health sciences. Learning in small groups, classroom, laboratory, and clinical settings utilizing technology. Professionalism, ethics, interpersonal education and the social contract, communication skills, and critical evaluation of the literature. Begins to apply foundation knowledge and skills to patient assessment and care. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>2:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>DENT_V 410-001</td>
<td>Dentistry I: Foundations of Clinical Dentistry</td>
<td>W1-2</td>
<td>Fundamentals of human biology, body systems, diseases, and supporting basic oral health sciences. Learning in small groups, classroom, laboratory, and clinical settings utilizing technology. Professionalism, ethics, interpersonal education and the social contract, communication skills, and critical evaluation of the literature. Begins to apply foundation knowledge and skills to patient assessment and care. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>2:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>DENT_V 410-NMO</td>
<td>Dentistry I: Foundations of Clinical Dentistry</td>
<td>W1-2</td>
<td>Fundamentals of human biology, body systems, diseases, and supporting basic oral health sciences. Learning in small groups, classroom, laboratory, and clinical settings utilizing technology. Professionalism, ethics, interpersonal education and the social contract, communication skills, and critical evaluation of the literature. Begins to apply foundation knowledge and skills to patient assessment and care. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>10:00 a.m. - 11:30 a.m.</td>
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<td>DENT_V 410-PNP</td>
<td>Dentistry I: Foundations of Clinical Dentistry</td>
<td>W1-2</td>
<td>Fundamentals of human biology, body systems, diseases, and supporting basic oral health sciences. Learning in small groups, classroom, laboratory, and clinical settings utilizing technology. Professionalism, ethics, interpersonal education and the social contract, communication skills, and critical evaluation of the literature. Begins to apply foundation knowledge and skills to patient assessment and care. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu (clinical weeks)</td>
<td>12:30 p.m. - 6:30 p.m.</td>
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<td>Course Code</td>
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<tr>
<td>DENT_V 410</td>
<td>Dentistry I: Foundations of Clinical Dentistry</td>
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<td>In Person Learning</td>
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<tr>
<td>DENT_Y 410</td>
<td>Dentistry I: Foundations of Clinical Dentistry</td>
<td>4.0</td>
<td>In Person Learning</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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**Dental Clinical Sciences**

- **Basic Clinical Dentistry**
  - DENT_Y 420: Dentistry II: Basic Clinical Dentistry
  - DENT_Y 420: Dentistry II: Basic Clinical Dentistry
  - DENT_Y 420: Dentistry II: Basic Clinical Dentistry

- **Intermediate Clinical Dentistry**
  - DENT_Y 430: Dentistry III: Intermediate Clinical Dentistry
  - DENT_Y 430: Dentistry III: Intermediate Clinical Dentistry
  - DENT_Y 430: Dentistry III: Intermediate Clinical Dentistry

**Clinical Clerkships**

- Prerequisite: DENT 420
- Students function as team members in clinical group practices with individual progression through the dental clinical sciences, integrated into small group learning, classroom, laboratory, and community settings utilizing technology, continued engagement in professionalism, ethics and communication skills. This course is not eligible for Credit/D/Fail grading.

**Continued Exposure**

- DENT_Y 420: Dentistry II: Basic Clinical Dentistry
- DENT_Y 420: Dentistry II: Basic Clinical Dentistry
- DENT_Y 420: Dentistry II: Basic Clinical Dentistry

**Community Service Learning**

- Continuation of community service learning, integrated into clinical settings utilizing technology; continued engagement in professionalism, ethics and communication skills. This course is not eligible for Credit/D/Fail grading.

**Interprofessional Education**

- Students function as team members in clinical group practices with individual progression through the dental clinical sciences, integrated into small group learning, classroom, laboratory, and community settings utilizing technology, continued engagement in professionalism, ethics and communication skills. This course is not eligible for Credit/D/Fail grading.

**Critical Evaluation and Care**

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

**Interprofessional Education and the Social Contract**

- Students function as team members in clinical group practices with individual progression through the Clinical Clerkships, Prerequisite: DENT 410.

**Communication Skills**

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

**Professionalism, Ethics, Interprofessional Education and the Social Contract, Communication Skills, and Critical Evaluation of the Literature**

- Begins to apply foundation knowledge and skills to patient assessment and care. This course is not eligible for Credit/D/Fail grading.

**Fundamentals of Human Biology, Body Systems, and Support of Basic Oral Health Sciences**

- Students function as team members in clinical group practices with individual progression through the Clinical Clerkships, Prerequisite: DENT 410.

**Professionalism, Ethics, Interprofessional Education and the Social Contract, Communication Skills, and Critical Evaluation of the Literature**

- Begins to apply foundation knowledge and skills to patient assessment and care. This course is not eligible for Credit/D/Fail grading.
<table>
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<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Lecture Time</th>
<th>Time Period</th>
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<td>DENT_V 430-001</td>
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<td>Dental trauma and tooth resorptions: etiology, pathogenesis, epidemiology, diagnosis, and treatment. Lectures, seminars, and simulation training. This course is not eligible for Credit/D/Fail grading.</td>
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<td>DENT_V 510-001</td>
<td>Pediatric Dentistry Literature Review I</td>
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<td>Pediatric Dentistry Literature Review I</td>
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<td>Pediatric Dentistry Literature Review II</td>
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<td>Pediatric Dentistry Literature Review II</td>
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<td>Pediatric Dentistry Literature Review III</td>
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<td>The Pediatric Patient I</td>
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<td>Biomechanics of Craniofacial Orthopedics and Orthodontics I</td>
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<td>Periodontal Case Management</td>
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<td>Literature Review in Periodontics</td>
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DENT_V 575-001  DENT_V 575 001  Implant Therapy  W1-2  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

DENT_V 575-003  DENT_V 575 003  Implant Therapy  W1  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

DENT_V 578-001  DENT_V 578 001  Endodontic Literature Review I  W1-2  Dental anatomy, morphology, endodontic instruments, diagnosis and differential diagnosis, etiology and pathogenesis of endodontic infections, and strategies of infection control. This course is not eligible for Credit/D/Fail grading.  [2-0-0]  In Person Learning  Arranged  Arranged

DENT_V 584-001  DENT_V 584 001  Endodontic Literature Review II  W1-2  Endodontic epidemiology, materials, prognosis of treatment, geriatric endodontics, complications, treatment-resistant infections, and endo-perio lesions. This course is not eligible for Credit/D/Fail grading.  [2-0-0]  In Person Learning  Arranged  Arranged

DENT_V 591-001  DENT_V 591 001  Endodontic Case Management I  W1-2  Modern endodontic technology and clinical endodontics. Lectures, seminars, and simulation training. This course is not eligible for Credit/D/Fail grading.  [2-0-0]  In Person Learning  Arranged  Arranged

DENT_V 592-001  DENT_V 592 001  Endodontic Case Management II  W1-2  Modern endodontic technology and clinical endodontics. Lectures, seminars, and simulation training. This course is not eligible for Credit/D/Fail grading.  [2-0-0]  In Person Learning  Arranged  Arranged

DENT_V 594-001  DENT_V 594 001  Endodontic Case Review and Treatment Planning I  W1-2  Student case presentations, treatment choice, and evaluation of prognosis. This course is not eligible for Credit/D/Fail grading.  [0-0-2]  In Person Learning  Arranged  Arranged

DENT_V 595-001  DENT_V 595 001  Endodontic Case Review and Treatment Planning II  W1-2  Student case presentations, treatment choice, and evaluation of prognosis. This course is not eligible for Credit/D/Fail grading.  [0-0-2]  In Person Learning  Arranged  Arranged

DENT_V 596-001  DENT_V 596 001  Endodontic Case Review and Treatment Planning III  W1-2  Student case presentations, treatment choice, and evaluation of prognosis. This course is not eligible for Credit/D/Fail grading.  [0-0-2]  In Person Learning  Arranged  Arranged

DENT_V 598-001  DENT_V 598 001  M.Sc. Thesis  W1-2  Enrollment restricted to graduate students in Dental Science. This course is not eligible for Credit/D/Fail grading.  [0-0-2]  In Person Learning  Arranged  Arranged

DENT_V 599-001  DENT_V 599 001  M.Sc. Thesis  W1  Enrollment restricted to graduate students in Dental Science. This course is not eligible for Credit/D/Fail grading.  [0-0-2]  In Person Learning  Arranged  Arranged

DENT_V 599-101  DENT_V 599 101  M.Sc. Thesis  W1-2  Enrollment restricted to graduate students in Dental Science. This course is not eligible for Credit/D/Fail grading.  [0-0-2]  In Person Learning  Arranged  Arranged

DENT_V 599-LEC  DENT_V 599 LEC  M.Sc. Thesis  W2  Enrollment restricted to graduate students in Dental Science. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue  08:00 a.m. - 12:30 p.m.

DENT_V 649-001  DENT_V 649 001  Doctoral Dissertation  W1  In Person Learning  Arranged  Arranged

DENT_V 649-002  DENT_V 649 002  Doctoral Dissertation  W1-2  In Person Learning  Arranged  Arranged

DENT_V 649-003  DENT_V 649 003  Doctoral Dissertation  W1-2  In Person Learning  Arranged  Arranged

DENT_V 649-SEM  DENT_V 649 SEM  Doctoral Dissertation  W2  In Person Learning  Sat  08:00 a.m. - 1:00 p.m.

DENT_V 711-001  DENT_V 711 001  Clinical Periodontics and Implant Surgery I  W1-2  Pass/Fail. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

DENT_V 712-001  DENT_V 712 001  Clinical Periodontics and Implant Surgery II  W1-2  Pass/Fail. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

DENT_V 713-001  DENT_V 713 001  Clinical Periodontics and Implant Surgery III  W1-2  Pass/Fail. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

DENT_V 713-LEC  DENT_V 713 LEC  Clinical Periodontics and Implant Surgery III  W1  Pass/Fail. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

DENT_V 715-001  DENT_V 715 001  Periodontal Therapy Seminars  W1-2  In Person Learning  Arranged  Arranged

DENT_V 715-002  DENT_V 715 002  Periodontal Therapy Seminars  W1-2  In Person Learning  Arranged  Arranged

DENT_V 721-001  DENT_V 721 001  Clinical Endodontics, Year 1  W1-2  Endodontic treatment of patients in the clinic under the supervision of specialist instructors. Supervised endodontic treatment clinic. This course is not eligible for Credit/D/Fail grading.  [0-0-18]  In Person Learning  Arranged  Arranged
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<td>Hospital Clinical Pediatrics I</td>
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<td>1:00 p.m. - 2:00 p.m.</td>
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<td>1:00 p.m. - 2:00 p.m.</td>
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<td>Hospital Clinical Pediatrics III</td>
<td>W1-2</td>
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<td>DES_V 101-101</td>
<td>Introductory Workshop</td>
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<td>DES_V 110-101</td>
<td>Measured Architectural Drawing</td>
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<td>1:00 p.m. - 2:00 p.m.</td>
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<td>DES_V 110-102</td>
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<td>DES_V 110-103</td>
<td>Design, Culture and Ecology</td>
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<td>DES_V 200-001</td>
<td>Design Thinking</td>
<td>W1</td>
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<td>W1</td>
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DES_V 200-015  DES_V 200 L05 Design Thinking W1 Design thinking through the analysis of architecture, landscape architecture and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed 11:00 a.m. - 1:00 p.m.

DES_V 200-016  DES_V 200 L06 Design Thinking W1 Design thinking through the analysis of architecture, landscape architecture and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed 12:00 p.m. - 2:00 p.m.

DES_V 200-017  DES_V 200 L07 Design Thinking W1 Design thinking through the analysis of architecture, landscape architecture and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed 2:00 p.m. - 4:00 p.m.

DES_V 200-018  DES_V 200 L08 Design Thinking W1 Design thinking through the analysis of architecture, landscape architecture and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading. In Person Learning Thu 11:00 a.m. - 1:00 p.m.

DES_V 201-001  DES_V 201 E01 Design Studio I - Context and Site W1 Design within the context of various analytical lenses (including ecological, climatic, social, political, cultural and historical influences). This course is not eligible for Credit/D/Fail grading. Prerequisite: One of DES 130, VISA 180. In Person Learning Mon Wed 1:30 p.m. - 5:00 p.m.

DES_V 201-002  DES_V 201 E01 Design Studio I - Context and Site W1 Essential processes and methods for thinking in three-dimensional spatial terms. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 201. In Person Learning Mon Wed 1:30 p.m. - 5:00 p.m.

DES_V 201-010  DES_V 201 E01 Design Studio I - Form W2 Essential processes and methods for thinking in three-dimensional spatial terms. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 201. In Person Learning Wed 1:30 p.m. - 5:00 p.m.

DES_V 201-011  DES_V 201 E01 Design Studio I - Form W2 Essential processes and methods for thinking in three-dimensional spatial terms. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 201. In Person Learning Wed 1:30 p.m. - 5:00 p.m.

DES_V 202-001  DES_V 202 E01 Architecture and Urbanism in Context: Vancouver and its Region W1 The unfolding architecture and urbanism of Metro Vancouver. Using Vancouver as a laboratory to examine the historical transformation of the built environment, and how this has affected particular activities, land uses, and social groups within the region. Open enrolment course. Credit will be granted for only one of ENDS 220 or DES 220. Hybrid Learning Thu 5:00 p.m. - 9:30 p.m.

DES_V 202-010  DES_V 202 E01 Architecture and Urbanism in Context: Vancouver and its Region W1 The unfolding architecture and urbanism of Metro Vancouver. Using Vancouver as a laboratory to examine the historical transformation of the built environment, and how this has affected particular activities, land uses, and social groups within the region. Open enrolment course. Credit will be granted for only one of ENDS 220 or DES 220. In Person Learning Tue 11:00 a.m. - 1:00 p.m.

DES_V 202-011  DES_V 202 E01 Architecture and Urbanism in Context: Vancouver and its Region W1 The unfolding architecture and urbanism of Metro Vancouver. Using Vancouver as a laboratory to examine the historical transformation of the built environment, and how this has affected particular activities, land uses, and social groups within the region. Open enrolment course. Credit will be granted for only one of ENDS 220 or DES 220. In Person Learning Tue 11:00 a.m. - 1:00 p.m.

DES_V 202-012  DES_V 202 E01 Architecture and Urbanism in Context: Vancouver and its Region W1 The unfolding architecture and urbanism of Metro Vancouver. Using Vancouver as a laboratory to examine the historical transformation of the built environment, and how this has affected particular activities, land uses, and social groups within the region. Open enrolment course. Credit will be granted for only one of ENDS 220 or DES 220. In Person Learning Tue 11:00 a.m. - 1:00 p.m.

DES_V 202-013  DES_V 202 E01 Architecture and Urbanism in Context: Vancouver and its Region W1 The unfolding architecture and urbanism of Metro Vancouver. Using Vancouver as a laboratory to examine the historical transformation of the built environment, and how this has affected particular activities, land uses, and social groups within the region. Open enrolment course. Credit will be granted for only one of ENDS 220 or DES 220. In Person Learning Tue 11:00 a.m. - 1:00 p.m.

DES_V 202-014  DES_V 202 E01 Architecture and Urbanism in Context: Vancouver and its Region W1 The unfolding architecture and urbanism of Metro Vancouver. Using Vancouver as a laboratory to examine the historical transformation of the built environment, and how this has affected particular activities, land uses, and social groups within the region. Open enrolment course. Credit will be granted for only one of ENDS 220 or DES 220. In Person Learning Mon 10:00 a.m. - 12:00 p.m.

DES_V 202-015  DES_V 202 E01 Architecture and Urbanism in Context: Vancouver and its Region W1 The unfolding architecture and urbanism of Metro Vancouver. Using Vancouver as a laboratory to examine the historical transformation of the built environment, and how this has affected particular activities, land uses, and social groups within the region. Open enrolment course. Credit will be granted for only one of ENDS 220 or DES 220. In Person Learning Thu 9:00 a.m. - 11:00 a.m.

DES_V 202-016  DES_V 202 E01 Architecture and Urbanism in Context: Vancouver and its Region W1 The unfolding architecture and urbanism of Metro Vancouver. Using Vancouver as a laboratory to examine the historical transformation of the built environment, and how this has affected particular activities, land uses, and social groups within the region. Open enrolment course. Credit will be granted for only one of ENDS 220 or DES 220. In Person Learning Thu 11:00 a.m. - 1:00 p.m.

DES_V 202-017  DES_V 202 E01 Architecture and Urbanism in Context: Vancouver and its Region W1 Essential processes and methods for thinking in three-dimensional spatial terms. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 201. In Person Learning Thu 5:00 p.m. - 9:30 p.m.

DES_V 202-018  DES_V 202 E01 Architecture and Urbanism in Context: Vancouver and its Region W1 Essential processes and methods for thinking in three-dimensional spatial terms. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 201. In Person Learning Thu 5:00 p.m. - 9:30 p.m.

DES_V 203-001  DES_V 203 E01 Sustainability by Design W2 Design thinking through the analysis of architecture, landscape architecture, and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading. In Person Learning Thu 5:00 p.m. - 9:30 p.m.

DES_V 203-002  DES_V 203 E01 Sustainability by Design W2 Design thinking through the analysis of architecture, landscape architecture, and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading. In Person Learning Thu 5:00 p.m. - 9:30 p.m.

DES_V 203-003  DES_V 203 E01 Sustainability by Design W2 Design thinking through the analysis of architecture, landscape architecture, and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading. In Person Learning Thu 5:00 p.m. - 9:30 p.m.

DES_V 203-004  DES_V 203 E01 Sustainability by Design W2 Design thinking through the analysis of architecture, landscape architecture, and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading. In Person Learning Thu 5:00 p.m. - 9:30 p.m.

DES_V 203-005  DES_V 203 E01 Sustainability by Design W2 Design thinking through the analysis of architecture, landscape architecture, and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading. In Person Learning Thu 5:00 p.m. - 9:30 p.m.

DES_V 203-006  DES_V 203 E01 Sustainability by Design W2 Design thinking through the analysis of architecture, landscape architecture, and urban design and through hands-on design projects. This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading. In Person Learning Thu 5:00 p.m. - 9:30 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.

Course Prerequisites: A score of 60% or higher in DES 202.

Course Notes: This course is open to all UBC students, regardless of prior experience. Credit will be granted for only one of ENDS 221 or DES 230. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 201.

In Person Learning

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

In Person Learning

Wed 11:00 a.m. - 12:30 p.m.
### DES_V 322 F _201_ Topics in Architectural History II (1080-Present)

- **W2** History of architecture in the post-1980 time period. Technological, political, social, and economic changes which have influenced architecture and related fields. Credit will be granted only for one of DES 322, ARCH 405 or ARCH 505. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 321. In Person Learning: Arranged: Arranged

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### DES_V 333 F _201_ History in Landscape Architecture

- **W2** Landscapes from medieval times to the present studied synchronously across design elements as well as chronologically with the development of several key historical concepts. This course is not eligible for Credit/D/Fail grading. Prerequisite: DES 330. In Person Learning: Thu Tue 3:00 p.m. - 5:00 p.m.

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### DES_V 341 F _201_ Co-operative Education Work Term I

- **W1** Supervised, technical work-integrated learning experience in a public or private organization for a minimum of three months. Formal co-op assignments required. Restricted to undergraduate students meeting the requirements of the Bachelor of Design and the Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: APSC 107. In Person Learning: Arranged: Arranged

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### DES_V 401 F _201_ Design Theory

- **W1** A history of the planning, landscape architecture and urban design of cities, and of how ideas have influenced the design of the city. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of DES 321, 322, 323. In Person Learning: Mon 1:30 p.m. - 5:00 p.m.

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### DES_V 402 F _201_ Design Studio IV: Away

- **W2** Final design project in the minor option with an independently conceived methodology allowing a student the opportunity to pursue his/her own set of interests and concerns. This course is not eligible for Credit/D/Fail grading. Prerequisite: A sessional average of 80% or better in each of years 2 and 3 and a grade of 80% or better in each of DES 201, 202, 302 and DES 411. In Person Learning: Mon 1:30 p.m. - 5:00 p.m.

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### DES_V 403 F _201_ Design Studio V: Urban Systems Scale Synthesis

- **W1** Relationships between communities and environment, urban infrastructure and ecological systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 322. In Person Learning: Mon 3:00 p.m. - 5:00 p.m.

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### DES_V 404 F _201_ Urbanism by Design

- **W1** 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 402. In Person Learning: Mon 10:00 a.m. - 12:00 p.m.

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### DES_V 405 F _201_ Landscape History

- **W1** One of DES 321, DES 322, DES 323. In Person Learning: Wed 3:00 p.m. - 5:00 p.m.

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### DES_V 406 F _201_ Landscape History of the Americas

- **W1** One of DES 321, DES 322, DES 323. In Person Learning: Wed 3:00 p.m. - 5:00 p.m.

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### DES_V 407 F _201_ Landscape History

- **W1** Introduction to a broad range of theories in architecture and design as they relate to the built environment. This course is not eligible for Credit/D/Fail grading. In Person Learning: Tue Thu 9:30 a.m. - 11:00 a.m.

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### DES_V 408 F _201_ Landscape History

- **W1** A history of the planning, landscape architecture and urban design of cities, and of how ideas have influenced the design of the city. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of DES 321, 322, 323. In Person Learning: Wed 10:00 a.m. - 12:00 p.m.

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### DES_V 409 F _201_ Landscape History

- **W1** A history of the planning, landscape architecture and urban design of cities, and of how ideas have influenced the design of the city. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of DES 321, 322, 323. In Person Learning: Thu 10:00 a.m. - 11:00 a.m.

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### DES_V 410 F _201_ Landscape History

- **W1** A history of the planning, landscape architecture and urban design of cities, and of how ideas have influenced the design of the city. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of DES 321, 322, 323. In Person Learning: Thu 10:00 a.m. - 11:00 a.m.

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### DES_V 411 F _201_ Landscape History

- **W1** A history of the planning, landscape architecture and urban design of cities, and of how ideas have influenced the design of the city. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of DES 321, 322, 323. In Person Learning: Thu 11:00 a.m. - 12:30 p.m.

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### DES_V 412 F _201_ Landscape History

- **W1** A history of the planning, landscape architecture and urban design of cities, and of how ideas have influenced the design of the city. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of DES 321, 322, 323. In Person Learning: Thu 11:00 a.m. - 12:30 p.m.

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### DES_V 413 F _201_ Landscape History

- **W1** Relationships between communities and environment, urban infrastructure and ecological systems. This course is not eligible for Credit/D/Fail grading. Prerequisite: A score of 60% or higher in DES 322. In Person Learning: Wed 3:00 p.m. - 5:00 p.m.

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### DES_V 414 F _201_ Landscape History

- **W1** Credit will be granted for only one of DES 411, DES 412, DES 413. In Person Learning: Wed 2:00 p.m. - 5:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Term</th>
<th>Credits</th>
<th>Description</th>
<th>Delivery</th>
<th>Days</th>
<th>Time</th>
<th>Grade Option</th>
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</thead>
<tbody>
<tr>
<td>DHYG_V 206-001</td>
<td>Oral Health Care Trends &amp; Topics</td>
<td>W1-2</td>
<td>3-0-0</td>
<td>Critical analysis of health care trends and oral health care delivery with emphasis on underserved diverse populations. Prerequisite: Pre or Corequisite: DHYG 462.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>Arranged</td>
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<tr>
<td>DHYG_V 210-001</td>
<td>Dental Hygiene Theory &amp; Practice III</td>
<td>W1-2</td>
<td>4-0-0</td>
<td>The study of dental hygiene theory and practice in clinical and community-based settings. This course is not eligible for Credit/D/Fail grading. Prerequisite: DHYG 110.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>10:00 a.m. - 1:00 p.m.</td>
<td>Arranged</td>
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<tr>
<td>DHYG_V 210-DNU_001</td>
<td>Dental Hygiene Theory &amp; Practice III</td>
<td>W1-2</td>
<td>4-0-0</td>
<td>The study of dental hygiene theory and practice with emphasis on diverse clients with oral health care needs. This course is not eligible for Credit/D/Fail grading. Prerequisite: DHYG 210.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>Arranged</td>
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<tr>
<td>DHYG_V 310-001</td>
<td>Dental Hygiene Theory &amp; Practice III</td>
<td>W1-2</td>
<td>4-0-0</td>
<td>The study of dental hygiene theory and practice with emphasis on diverse clients with oral health care needs. This course is not eligible for Credit/D/Fail grading. Prerequisite: DHYG 210.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>10:00 a.m. - 1:00 p.m.</td>
<td>Arranged</td>
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<tr>
<td>DHYG_V 325-325</td>
<td>Applied Pharmacology</td>
<td>W1</td>
<td>3</td>
<td>Applied pharmacology concepts and principles for the dental health professional. Prerequisite: All of BIOL 153, DHYG 108.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>8:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>DHYG_V 400-A_BKA</td>
<td>Policy Analysis and Change</td>
<td>W1-2</td>
<td>3-0-0</td>
<td>Critical reviews of oral health care delivery, oral disease processes and dental hygiene.</td>
<td>Online Learning</td>
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<tr>
<td>DHYG_V 400-B_001</td>
<td>Policy Analysis and Change</td>
<td>W1</td>
<td>3-0-0</td>
<td>Critical reviews of oral health care delivery, oral disease processes and dental hygiene.</td>
<td>Online Learning</td>
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<tr>
<td>DHYG_V 401-001</td>
<td>Oral Epidemiology</td>
<td>W1-2</td>
<td>3</td>
<td>Basic epidemiological and statistical concepts and tests relevant to evidence-based oral health practices.</td>
<td>Online Learning</td>
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<tr>
<td>DHYG_V 402-BKA</td>
<td>Dental Hygiene Practice I</td>
<td>W1-2</td>
<td>3-0-0</td>
<td>Dental hygiene concepts, processes, and skills for individuals and communities.</td>
<td>Online Learning</td>
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<tr>
<td>DHYG_V 405-BKA</td>
<td>Oral Microbiology and Immunology</td>
<td>W1</td>
<td>3</td>
<td>Microbiology and immunological concepts relevant for dental hygiene practice.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>8:30 a.m. - 11:30 a.m.</td>
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<tr>
<td>DHYG_V 405-BKA</td>
<td>Oral Microbiology and Immunology</td>
<td>W1</td>
<td>3</td>
<td>Microbiology and immunological concepts relevant for dental hygiene practice.</td>
<td>In Person Learning</td>
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<tr>
<td>DHYG_V 406-001</td>
<td>Guided Study in Dental Hygiene</td>
<td>W1-2</td>
<td>3-0-0</td>
<td>Conduct an in-depth investigation of a health promotion issue. Prerequisite: All of DHYG 400, DHYG 401, DHYG 403, and Faculty approval.</td>
<td>In Person Learning</td>
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<tr>
<td>DHYG_V 410-001</td>
<td>Dental Hygiene Theory &amp; Practice IV</td>
<td>W1-2</td>
<td>3-0-0</td>
<td>Critical analysis of dental hygiene theory and practice related to diverse clients with complex oral health care needs. This course is not eligible for Credit/D/Fail grading. Prerequisite: DHYG 210.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>10:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>DHYG_V 412-001</td>
<td>Oral Health Care Trends &amp; Topics</td>
<td>W1-2</td>
<td>3-0-0</td>
<td>Critical analysis of health care trends and oral health care delivery with emphasis on underserved diverse populations. Prerequisite: Phi of Corequisite: DHYG 462.</td>
<td>Online Learning</td>
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<tr>
<td>DHYG_V 412-BKA</td>
<td>Oral Health Care Trends &amp; Topics</td>
<td>W1-2</td>
<td>3-0-0</td>
<td>Critical analysis of health care trends and oral health care delivery with emphasis on underserved diverse populations. Prerequisite: Phi of Corequisite: DHYG 462.</td>
<td>Online Learning</td>
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<tr>
<td>DHYG_V 439-BKC</td>
<td>Assessment and Treatment Planning for Advanced Periodontal Diseases</td>
<td>W2</td>
<td>2</td>
<td>Available in online distance education format only.</td>
<td>Online Learning</td>
<td>Arranged</td>
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<td>Course Code</td>
<td>Course Title</td>
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<td>Instructor</td>
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<tr>
<td>DSCI 100-99A</td>
<td>Introduction to Data Science</td>
<td>W2</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>DSCI 100-001</td>
<td>Critical Appraisal and Professional Writing in Qualitative Research</td>
<td>W2</td>
<td>4:00 p.m. - 5:30 p.m.</td>
<td>Online Learning</td>
<td>Arranged</td>
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<td>DSCI 100-002</td>
<td>Reproducible and Trustworthy Workflows for Data Science</td>
<td>W2</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<td>DSCI 100-003</td>
<td>Reproducible and Trustworthy Workflows for Data Science</td>
<td>W2</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<td>DSCI 100-004</td>
<td>Reproducible and Trustworthy Workflows for Data Science</td>
<td>W2</td>
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<td>In Person Learning</td>
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<td>DSCI 100-005</td>
<td>Reproducible and Trustworthy Workflows for Data Science</td>
<td>W2</td>
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<td>DSCI 100-006</td>
<td>Reproducible and Trustworthy Workflows for Data Science</td>
<td>W2</td>
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<td>DSCI 100-007</td>
<td>Reproducible and Trustworthy Workflows for Data Science</td>
<td>W2</td>
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<td>DSCI 100-008</td>
<td>Reproducible and Trustworthy Workflows for Data Science</td>
<td>W2</td>
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<td>DSCI 100-009</td>
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<td>DSCI 100-010</td>
<td>Reproducible and Trustworthy Workflows for Data Science</td>
<td>W2</td>
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<td>DSCI 100-011</td>
<td>Reproducible and Trustworthy Workflows for Data Science</td>
<td>W2</td>
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<td>In Person Learning</td>
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<tr>
<td>DSCI 200-101</td>
<td>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 or one of CPSC 203, CPSC 210, CPEN 211</td>
<td>W2</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>DSCI 200-102</td>
<td>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 or one of CPSC 203, CPSC 210, CPEN 211</td>
<td>W2</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>DMED 500-101</td>
<td>Foundations of Digital Entertainment</td>
<td>W1</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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Programming for Data Science

Visualization for Data Science

In Person Learning

Algorithms and Data Structures

Fairness, Accountability, Transparency and Ethics (FATE) in Data Science

Analysis, design, and implementation of static and interactive visual representations; visual literacy; data communication; exploratory Data Analysis; application of theoretical principles to visualization development. [3-1.5-0] Prerequisite: STAT 201 and one of CPSC 203, CPSC 230, CPEN 221.

In Person Learning Arranged Arranged

In Person Learning Tue 9:30 a.m. - 11:00 a.m.

In Person Learning Tue 11:00 a.m. - 12:30 p.m.

In Person Learning Thu 9:30 a.m. - 11:00 a.m.

In Person Learning Mon Wed 3:30 p.m. - 5:00 p.m.

In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.

In Person Learning Mon Wed 8:00 a.m. - 9:30 a.m.

In Person LearningThu 2:00 p.m. - 4:00 p.m.

In Person Learning Wed 2:00 p.m. - 4:00 p.m.

In Person Learning Tue 2:00 p.m. - 4:00 p.m.

In Person Learning Mon 2:00 p.m. - 4:00 p.m.

In Person Learning Tue 4:00 p.m. - 6:00 p.m.

In Person Learning Thu 11:00 a.m. - 12:30 p.m.

In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.

In Person Learning Mon Wed 8:00 a.m. - 9:30 a.m.

In Person Learning Thu 2:00 p.m. - 4:00 p.m.

In Person Learning Wed 2:00 p.m. - 4:00 p.m.

In Person Learning Tue 2:00 p.m. - 4:00 p.m.

In Person Learning Mon 2:00 p.m. - 4:00 p.m.

In Person Learning Tue 4:00 p.m. - 6:00 p.m.
Program design and data manipulation using industry-standard software tools designed for statistical work. Organizing, filtering, sorting, grouping, reformatting, converting, and cleaning data to prepare it for further analysis. This course is not eligible for Credit/D/Fail grading.

Data Science Workflows

Interactive and non-interactive data analysis. Scripting: Dynamic reporting, Reproducibility. Project and file management, Version control. Automated workflows. This course is not eligible for Credit/D/Fail grading.

Relational schemas. SQL queries. Database programming using embedded SQL. XML and XQuery. This course is not eligible for Credit/D/Fail grading.
DSCI 524-001

Collaborative Software Development

Software life cycle. Unit testing. Continuous integration. Submission to a relevant repository for distribution. Packaging for installation and use by others. Software licenses. Classes and abstraction. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 522.

In Person Learning

Mon

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

DSCI 524-002

Collaborative Software Development

Software life cycle. Unit testing. Continuous integration. Submission to a relevant repository for distribution. Packaging for installation and use by others. Software licenses. Classes and abstraction. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 522.

In Person Learning

Mon

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

DSCI 524-003

Collaborative Software Development

Software life cycle. Unit testing. Continuous integration. Submission to a relevant repository for distribution. Packaging for installation and use by others. Software licenses. Classes and abstraction. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 522.

In Person Learning

Tue

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

DSCI 524-004

Collaborative Software Development

Software life cycle. Unit testing. Continuous integration. Submission to a relevant repository for distribution. Packaging for installation and use by others. Software licenses. Classes and abstraction. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 522.

In Person Learning

Thu

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

DSCI 523-L03

Data Visualization I

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.

DSCI 523-L04

Data Visualization I

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

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

DSCI 523-L01

Data Visualization I

Descriptive plots using statistical and programming software. Basics, mechanics, and principles of data visualization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.

In Person Learning

Thu

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

DSCI 523-L02

Data Visualization I

Descriptive plots using statistical and programming software. Basics, mechanics, and principles of data visualization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.

In Person Learning

Thu

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

DSCI 523-L06

Data Visualization I

Descriptive plots using statistical and programming software. Basics, mechanics, and principles of data visualization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.

In Person Learning

Wed

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

DSCI 523-L07

Data Visualization I

Descriptive plots using statistical and programming software. Basics, mechanics, and principles of data visualization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.

In Person Learning

Wed

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

DSCI 523-L09

Data Visualization I

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.p.

DSCI 523-L08

Data Visualization I

Descriptive plots using statistical and programming software. Basics, mechanics, and principles of data visualization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.

In Person Learning

Mon

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

DSCI 523-L05

Data Visualization I

Descriptive plots using statistical and programming software. Basics, mechanics, and principles of data visualization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.

In Person Learning

Mon

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

DSCI 523-L03

Data Visualization I

Descriptive plots using statistical and programming software. Basics, mechanics, and principles of data visualization. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.

In Person Learning

Wed

2:00 p.m. - 4:00 p.m.
DSCI 532-L02  DSCI 532-L03  DSCI 532-L04  Data Visualization II

9:30 a.m. - 11:00 a.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: DSCI 531.

In Person Learning  Tue  2:00 p.m. - 4:00 p.m.

DSCI 541-001  DSCI 541-002  DSCI 541-003  Privacy, Ethics, and Security

Privacy and data. Ethics boards, legal issues, licensing. Physical and logical data security, social engineering. Encryption, data anonymization, privacy-preserving techniques. Case studies. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue Thu  9:30 a.m. - 10:00 a.m.

DSCI 542-001  DSCI 542-002  Descriptive Statistics and Probability for Data Science

Descriptive statistics including measures of location and spread. Random variables, distributions, and parameters. Categorical variables. Uncertainty. Missing data. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue Thu  9:30 a.m. - 10:00 a.m.

DSCI 542-003  DSCI 542-004  Data Visualization II

Interactive visualization, design choices, dynamic change over time, multiple views, data reduction, dealing with complexity. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 531.

In Person Learning  Tue Thu  2:00 p.m. - 4:00 p.m.
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<th>Code</th>
<th>Section</th>
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<th>Days</th>
<th>Time</th>
<th>Location</th>
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<td>553</td>
<td>DSCI</td>
<td>V</td>
<td>001</td>
<td>Descriptive Statistics and Probability for Data Science</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>561-L01</td>
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<td>In Person Learning</td>
<td>Tue Thu</td>
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<td>561-L02</td>
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<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>551-L01</td>
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<td>561</td>
<td>Unsupervised Learning</td>
<td>Mon Wed 9:30 a.m. - 11:00 a.m.</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: All of DSCI 511, DSCI 521.</td>
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<td>562</td>
<td>Regression I</td>
<td>W1 2:00 p.m. - 4:00 p.m.</td>
<td>Linear models: continuous response, one or more continuous covariates, and/or one or more categorical covariates. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 511.</td>
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<td>563</td>
<td>Regression II</td>
<td>W2 11:00 a.m. - 12:30 p.m.</td>
<td>Non-parametric regression and smoothing. Data-driven parameter selection. Mixture models. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 511.</td>
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<td>564</td>
<td>Regression III</td>
<td>W2 2:00 p.m. - 4:00 p.m.</td>
<td>Non-parametric regression and smoothing. Data-driven parameter selection. Mixture models. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 511.</td>
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<td>565</td>
<td>Regression IV</td>
<td>W2 11:00 a.m. - 12:30 p.m.</td>
<td>Non-parametric regression and smoothing. Data-driven parameter selection. Mixture models. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 511.</td>
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<td>Regression V</td>
<td>W2 2:00 p.m. - 4:00 p.m.</td>
<td>Non-parametric regression and smoothing. Data-driven parameter selection. Mixture models. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 511.</td>
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<td>567</td>
<td>Regression VI</td>
<td>W2 11:00 a.m. - 12:30 p.m.</td>
<td>Non-parametric regression and smoothing. Data-driven parameter selection. Mixture models. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 511.</td>
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<td>568</td>
<td>Regression VII</td>
<td>W2 2:00 p.m. - 4:00 p.m.</td>
<td>Non-parametric regression and smoothing. Data-driven parameter selection. Mixture models. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 511.</td>
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<td>Regression VIII</td>
<td>W2 11:00 a.m. - 12:30 p.m.</td>
<td>Non-parametric regression and smoothing. Data-driven parameter selection. Mixture models. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 511.</td>
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<td>570</td>
<td>Regression IX</td>
<td>W2 2:00 p.m. - 4:00 p.m.</td>
<td>Non-parametric regression and smoothing. Data-driven parameter selection. Mixture models. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 511.</td>
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<td>571</td>
<td>Regression X</td>
<td>W2 11:00 a.m. - 12:30 p.m.</td>
<td>Non-parametric regression and smoothing. Data-driven parameter selection. Mixture models. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 511.</td>
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<td>572</td>
<td>Regression XI</td>
<td>W2 2:00 p.m. - 4:00 p.m.</td>
<td>Non-parametric regression and smoothing. Data-driven parameter selection. Mixture models. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 511.</td>
<td>In Person Learning</td>
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</table>
572-001 572 001 Supervised Learning II W2 Support Vector Machines, Random Forests, Ensemble Classifiers, Graphical models. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572. In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.

572-002 572 002 Supervised Learning II W2 Support Vector Machines, Random Forests, Ensemble Classifiers, Graphical models. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

572-003 572 003 Supervised Learning II W2 Support Vector Machines, Random Forests, Ensemble Classifiers, Graphical models. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

572-005 572 005 Supervised Learning II W2 Support Vector Machines, Random Forests, Ensemble Classifiers, Graphical models. 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.

572-006 572 006 Supervised Learning II W2 Support Vector Machines, Random Forests, Ensemble Classifiers, Graphical models. 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.

574 001 Feature and Model Selection W1 Performance of a classification model: Generalization error, overfitting of training data. Sketching, feature selection, Akaike Information Criterion, Bayesian Information Criterion. k-fold cross-validation. Bootstrapping, Receiver Operating Characteristic curves. Elastic nets, regularization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 571. In Person Learning Mon 9:30 a.m. - 11:00 a.m.

574 002 Feature and Model Selection W1 Performance of a classification model: Generalization error, overfitting of training data. Sketching, feature selection, Akaike Information Criterion, Bayesian Information Criterion. k-fold cross-validation. Bootstrapping, Receiver Operating Characteristic curves. Elastic nets, regularization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 571. In Person Learning Tue 9:30 a.m. - 11:00 a.m.

574 003 Feature and Model Selection W1 Performance of a classification model: Generalization error, overfitting of training data. Sketching, feature selection, Akaike Information Criterion, Bayesian Information Criterion. k-fold cross-validation. Bootstrapping, Receiver Operating Characteristic curves. Elastic nets, regularization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 571. In Person Learning Wed 9:30 a.m. - 11:00 a.m.

574 004 Feature and Model Selection W1 Performance of a classification model: Generalization error, overfitting of training data. Sketching, feature selection, Akaike Information Criterion, Bayesian Information Criterion. k-fold cross-validation. Bootstrapping, Receiver Operating Characteristic curves. Elastic nets, regularization. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 571. In Person Learning Thu 9:30 a.m. - 11:00 a.m.

574 005 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 11:00 a.m. - 12:30 p.m.

574 006 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 11:00 a.m. - 12:30 p.m.

574 007 Spatial and Temporal Models W2 Time series, State space and change point detection. Hidden Markov Models. Gaussian processes. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572. In Person Learning Wed 2:00 p.m. - 4:00 p.m.

574 008 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.

574 009 Spatial and Temporal Models W2 Time series, State space and change point detection. Hidden Markov Models. Gaussian processes. This course is not eligible for Credit/D/Fail grading. Prerequisite: DSCI 572. In Person Learning Mon 2:00 p.m. - 4:00 p.m.

574 010 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.
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<td>Advanced Machine Learning</td>
<td>W2</td>
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<td>DSCI_V 575-L01</td>
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<td>Advanced Machine Learning</td>
<td>W2</td>
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<td>DSCI_V 575-L04</td>
<td>Online Learning</td>
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<td>ECED_V 400-63A</td>
<td>Online Learning</td>
<td>Introduction to Early Childhood Education and Care</td>
<td>W1</td>
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<td>ECED_V 400-63B</td>
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<td>Introduction to Early Childhood Education and Care</td>
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<td>Foundations of Curriculum and Instruction in Early Childhood Education</td>
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<td>ECED_V 407-63C</td>
<td>Online Learning</td>
<td>Supporting Early Learning in the Pre-School Years</td>
<td>W2</td>
<td>Online Learning</td>
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<td>ECED_V 407-63D</td>
<td>Online Learning</td>
<td>Supporting Early Learning in the Pre-School Years</td>
<td>W2</td>
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<td>ECED_V 616-63A</td>
<td>Online Learning</td>
<td>Kindergarten Curriculum</td>
<td>W1</td>
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<td>ECED 420-63A</td>
<td>History of Early Childhood Education</td>
<td>W1</td>
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<td>ECED 420-63B</td>
<td>History of Early Childhood Education</td>
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<td>History of Early Childhood Education</td>
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<td>ECED 420-63D</td>
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<td>ECED 421-63A</td>
<td>Supporting Young Children Through Home, School, and Community Relationships</td>
<td>W1</td>
<td>Online</td>
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<tr>
<td>ECED 421-63C</td>
<td>Supporting Young Children Through Home, School, and Community Relationships</td>
<td>W2</td>
<td>Online</td>
<td>Arranged</td>
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<tr>
<td>ECED 438-63A</td>
<td>Observation and Documentation in Early Childhood Settings</td>
<td>W1</td>
<td>Online</td>
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<td>Observation and Documentation in Early Childhood Settings</td>
<td>W1</td>
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<td>ECED 438-63C</td>
<td>Observation and Documentation in Early Childhood Settings</td>
<td>W2</td>
<td>Online</td>
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<td>ECED 439-63A</td>
<td>Assessment of Infants and Young Children with Special Needs</td>
<td>W1</td>
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<td>ECED 439-63B</td>
<td>Assessment of Infants and Young Children with Special Needs</td>
<td>W2</td>
<td>Online</td>
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<td>ECED 438-63A</td>
<td>Supporting Social and Communication Development in Infants and Young Children</td>
<td>W1</td>
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<td>ECED 440-63A</td>
<td>Early Intervention for Infants and Young Children with Sensory Loss and Motor Impairments</td>
<td>W1</td>
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<td>ECED 440-63B</td>
<td>Early Intervention for Infants and Young Children with Sensory Loss and Motor Impairments</td>
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<td>ECED 441-63A</td>
<td>Supporting Indigenous Infants and Young Children within the Context of Their Communities</td>
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<td>ECED 441-63B</td>
<td>Supporting Indigenous Infants and Young Children within the Context of Their Communities</td>
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<td>ECED 442-63A</td>
<td>Selected Topics in Early Childhood Education</td>
<td>W2</td>
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<td>ECED 490-61A</td>
<td>Early Childhood Education Practicum &amp; Seminar I</td>
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<td>Early Childhood Education Practicum &amp; Seminar I</td>
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<td>Early Childhood Education Practicum &amp; Seminar I</td>
<td>W2</td>
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<td>ECED 491-61A</td>
<td>Early Childhood Education Practicum &amp; Seminar II</td>
<td>W1</td>
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<tr>
<td>ECED 406</td>
<td>Early Childhood Development, Intervention, and Inclusion in Early Childhood Programs</td>
<td>In Person Learning</td>
<td>4.30 p.m. - 7:30 p.m.</td>
<td>1.0</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECED 400, ECED 401, ECED 438, ECED 490, EPSE 406.</td>
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<tr>
<td>ECED 407</td>
<td>Early Childhood Development, Intervention, and Inclusion in Early Childhood Programs</td>
<td>In Person Learning</td>
<td>4.30 p.m. - 7:30 p.m.</td>
<td>1.0</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECED 400, ECED 401, ECED 438, ECED 490, EPSE 406.</td>
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<td>ECED 438</td>
<td>Early Childhood Development, Intervention, and Inclusion in Early Childhood Programs</td>
<td>In Person Learning</td>
<td>4.30 p.m. - 7:30 p.m.</td>
<td>1.0</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECED 400, ECED 401, ECED 438, ECED 490, EPSE 406.</td>
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<td>ECED 490</td>
<td>Early Childhood Development, Intervention, and Inclusion in Early Childhood Programs</td>
<td>In Person Learning</td>
<td>4.30 p.m. - 7:30 p.m.</td>
<td>1.0</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECED 400, ECED 401, ECED 438, ECED 490, EPSE 406.</td>
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<td>ECED 491</td>
<td>Early Childhood Development, Intervention, and Inclusion in Early Childhood Programs</td>
<td>In Person Learning</td>
<td>4.30 p.m. - 7:30 p.m.</td>
<td>1.0</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECED 400, ECED 401, ECED 438, ECED 490, EPSE 406.</td>
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<td>EPSE 406</td>
<td>Early Childhood Development, Intervention, and Inclusion in Early Childhood Programs</td>
<td>In Person Learning</td>
<td>4.30 p.m. - 7:30 p.m.</td>
<td>1.0</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECED 400, ECED 401, ECED 438, ECED 490, EPSE 406.</td>
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<tr>
<td>ECED_V 599-A,563</td>
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<td>Master's Thesis</td>
<td>W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>ECON_V 101-001</td>
<td>ECON_V 101-001</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Mon-Wed-Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>ECON_V 101-003</td>
<td>ECON_V 101-003</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</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>ECON_V 101-009</td>
<td>ECON_V 101-009</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Mon-Wed-Fri</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ECON_V 101-004</td>
<td>ECON_V 101-004</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Mon-Wed-Fri</td>
<td>3:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>ECON_V 101-011</td>
<td>ECON_V 101-011</td>
<td>Principles of Microeconomics</td>
<td>W2</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Tue-Thu</td>
<td>9:30 a.m. - 10:00 a.m.</td>
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<tr>
<td>ECON_V 101-013</td>
<td>ECON_V 101-013</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Tue-Thu</td>
<td>12:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>ECON_V 101-105</td>
<td>ECON_V 101-105</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>ECON_V 101-116</td>
<td>ECON_V 101-116</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>ECON_V 101-107</td>
<td>ECON_V 101-107</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<td>ECON_V 101-118</td>
<td>ECON_V 101-118</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ECON_V 101-11A</td>
<td>ECON_V 101-11A</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Mon</td>
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<tr>
<td>ECON_V 101-11B</td>
<td>ECON_V 101-11B</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>5:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>ECON_V 101-11C</td>
<td>ECON_V 101-11C</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
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<tr>
<td>ECON_V 101-11D</td>
<td>ECON_V 101-11D</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
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<td>Tue</td>
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<tr>
<td>ECON_V 101-11E</td>
<td>ECON_V 101-11E</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ECON_V 101-11F</td>
<td>ECON_V 101-11F</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Wed</td>
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<td>ECON_V 101-11G</td>
<td>ECON_V 101-11G</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<td>ECON_V 101-11H</td>
<td>ECON_V 101-11H</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<td>ECON_V 101-12A</td>
<td>ECON_V 101-12A</td>
<td>Principles of Microeconomics</td>
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<td>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 310</td>
<td>In Person Learning</td>
<td>Mon</td>
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<td>ECON_V 101-12B</td>
<td>ECON_V 101-12B</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Mon</td>
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<td>ECON_V 101-12C</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Wed</td>
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<td>ECON_V 101-12D</td>
<td>ECON_V 101-12D</td>
<td>Principles of Microeconomics</td>
<td>W1</td>
<td>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 310</td>
<td>In Person Learning</td>
<td>Wed</td>
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<td>ECON_V 101-12E</td>
<td>Principles of Microeconomics</td>
<td>101</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ECON_V 101-12F</td>
<td>Principles of Microeconomics</td>
<td>101</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ECON_V 101-12G</td>
<td>Principles of Microeconomics</td>
<td>101</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ECON_V 101-12H</td>
<td>Principles of Microeconomics</td>
<td>101</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ECON_V 101-13A</td>
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<td>101</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ECON_V 101-13B</td>
<td>Principles of Microeconomics</td>
<td>101</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ECON_V 101-13C</td>
<td>Principles of Microeconomics</td>
<td>101</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ECON_V 101-13D</td>
<td>Principles of Microeconomics</td>
<td>101</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ECON_V 101-13E</td>
<td>Principles of Microeconomics</td>
<td>101</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ECON_V 101-13F</td>
<td>Principles of Microeconomics</td>
<td>101</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ECON_V 101-13G</td>
<td>Principles of Microeconomics</td>
<td>101</td>
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<td>ECON_V 101-13H</td>
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<td>101</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<td>ECON_V 101-14A</td>
<td>Principles of Microeconomics</td>
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<tr>
<td>ECON_V 101-14B</td>
<td>Principles of Microeconomics</td>
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<td>4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ECON_V 101-14C</td>
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<td>ECON_V 101-15A</td>
<td>Principles of Microeconomics</td>
<td>101</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ECON_V 102-001</td>
<td>Principles of Microeconomics</td>
<td>102</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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</table>

Introductions 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 310.
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

Principles of Macroeconomics

W2 5:00 p.m. - 6:00 p.m.

In Person Learning Mon Wed Fri

102 Principles of Macroeconomics

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102 Principles of Macroeconomics

W2 5:00 p.m. - 6:00 p.m.
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.

Experiential: ECON 311

Equivalency: ECON 311

Elements of theory and of Canadian policy and institutions concerning the economics of growth and
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<th>Course Code</th>
<th>CourseName</th>
<th>Credits</th>
<th>Type</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Credit/Grade</th>
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<tr>
<td>ECON 221</td>
<td>Introduction to Strategic Thinking</td>
<td>0.01</td>
<td>In Person Learning</td>
<td>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 students with fourth-year standing in ECON or the B.I.E., or 2) students that have taken ECON 421 or MATH 346. Credit will be granted for only one of ECON 221 or ESI 346. Prerequisite: One of ECON 105, ECON 310.</td>
<td>In Person Learning</td>
<td>Mon, Wed</td>
<td>5:00 p.m. - 5:30 p.m.</td>
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<tr>
<td>ECON 221</td>
<td>Making Sense of Economic Data</td>
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<td>0.01</td>
<td>In Person Learning</td>
<td>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 students with fourth-year standing in ECON or the B.I.E., or 2) students that have taken ECON 421 or MATH 346. Credit will be granted for only one of ECON 221 or ESI 346. Prerequisite: One of ECON 105, ECON 310.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ECON 221</td>
<td>Introduction to Strategic Thinking</td>
<td>0.01</td>
<td>In Person Learning</td>
<td>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 students with fourth-year standing in ECON or the B.I.E., or 2) students that have taken ECON 421 or MATH 346. Credit will be granted for only one of ECON 221 or ESI 346. Prerequisite: One of ECON 105, ECON 310.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>5:00 p.m. - 6:00 p.m.</td>
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**Programs Offered by VSE:** Majors, Minors, Combined Majors, Honours. Prerequisite: One of ECON 105, ECON 310, or MATH 110. Application-driven introduction to the analysis of economic data. Descriptive analysis, causality, experimental and observational data, hypothesis testing. Restricted to 80 students. Credit will be granted for only one of ECON 226, ECON 227, STAT 203. Prerequisite: Either (a) one of ECON 101, ECON 310, ECON 102 or (b) ECON 311. Credit will be granted for only one of ECON 226, ECON 227, STAT 203. Prerequisite: Either (a) one of ECON 101, ECON 310, ECON 102 or (b) ECON 311. Credit will be granted for only one of ECON 226, ECON 227, STAT 203. Prerequisite: Either (a) one of ECON 101, ECON 310, ECON 102 or (b) ECON 311. Credit will be granted for only one of ECON 226, ECON 227, STAT 203. Prerequisite: Either (a) one of ECON 101, ECON 310, ECON 102 or (b) ECON 311. Credit will be granted for only one of ECON 226, ECON 227, STAT 203. Prerequisite: Either (a) one of ECON 101, ECON 310, ECON 102 or (b) ECON 311. Credit will be granted for only one of ECON 226, ECON 227, STAT 203. Prerequisite: Either (a) one of ECON 101, ECON 310, ECON 102 or (b) ECON 311. Credit will be granted for only one of ECON 226, ECON 227, STAT 203. Prerequisite: Either (a) one of ECON 101, ECON 310, ECON 102 or (b) ECON 311. Credit will be granted for only one of ECON 226, ECON 227, STAT 203. Prerequisite: Either (a) one of ECON 101, ECON 310, ECON 102 or (b) ECON 311. Credit will be granted for only one of ECON 226, ECON 227, STAT 203. Prerequisite: Either (a) one of ECON 101, ECON 310, ECON 102 or (b) ECON 311.
Understanding Globalization

Intermediate Microeconomic Analysis I

ECON 255-101 ECON V 255 101 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 250 and one of ECON 102, ECON 251.

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

ECON 255-102 ECON V 255 102 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 250 and one of ECON 102, ECON 251.

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

ECON 255-103 ECON V 255 103 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 250 and one of ECON 102, ECON 251.

In Person Learning Wed 6:00 p.m. - 7:00 p.m.

ECON 255-104 ECON V 255 104 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 250 and one of ECON 102, ECON 251.

In Person Learning Wed 6:00 p.m. - 7:00 p.m.

ECON 255-105 ECON V 255 105 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 250 and one of ECON 102, ECON 251.

In Person Learning Fri 4:00 p.m. - 5:00 p.m.

ECON 255-106 ECON V 255 106 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 250 and one of ECON 102, ECON 251.

In Person Learning Fri 4:00 p.m. - 5:00 p.m.

ECON 255-107 ECON V 255 107 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 250 and one of ECON 102, ECON 251.

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

ECON 255-108 ECON V 255 108 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 250 and one of ECON 102, ECON 251.

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

ECON 255-109 ECON V 255 109 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 250 and one of ECON 102, ECON 251.

In Person Learning Fri 6:00 p.m. - 7:00 p.m.

ECON 255-113 ECON V 255 113 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 250 and one of ECON 102, ECON 251.

In Person Learning Fri 11:00 a.m. - 12:30 p.m.

ECON 255-114 ECON V 255 114 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 250 and one of ECON 102, ECON 251.

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

ECON 255-115 ECON V 255 115 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 250 and one of ECON 102, ECON 251.

In Person Learning Fri 3:00 p.m. - 4:00 p.m.

ECON 255-116 ECON V 255 116 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 250 and one of ECON 102, ECON 251.

In Person Learning Fri 4:00 p.m. - 5:00 p.m.

ECON 301-001 ECON V 301 001 Intermediate Microeconomic Analysis I W1
Consumer behaviour, producer theory, comparative market equilibrium, welfare economics, uncertainty, monopoly and oligopoly. Credit will be granted for only one of ECON 301, ECON 304, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 300 and one of MATH 101, MATH 105, MATH 106, MATH 115, MATH 121.

In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.

ECON 301-002 ECON V 301 002 Intermediate Microeconomic Analysis I W1
Consumer behaviour, producer theory, comparative market equilibrium, welfare economics, uncertainty, monopoly and oligopoly. Credit will be granted for only one of ECON 301, ECON 304, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 300 and one of MATH 101, MATH 105, MATH 106, MATH 115, MATH 121.

In Person Learning Mon Wed 2:00 p.m. - 3:30 p.m.

ECON 301-003 ECON V 301 003 Intermediate Microeconomic Analysis I W2
Consumer behaviour, producer theory, comparative market equilibrium, welfare economics, uncertainty, monopoly and oligopoly. Credit will be granted for only one of ECON 301, ECON 304, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 300 and one of MATH 101, MATH 105, MATH 106, MATH 115, MATH 121.
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 315, COMM 295 or FRE 295. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 103, MATH 104, MATH 110, MATH 120, MATH 180, MATH 188 and one of MATH 101, MATH 105, MATH 121.

ECON 302-004 ECON V 302 004 Intermediate Microeconomic Analysis I W2

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 315, COMM 295 or FRE 295. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 104, MATH 110, MATH 120, MATH 180, MATH 188 and one of MATH 101, MATH 105, MATH 121.

ECON 302-005 ECON V 302 005 Intermediate Microeconomic Analysis I W2

Intermediate Macroeconomic Analysis I

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 315, COMM 295 or FRE 295. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 104, MATH 110, MATH 120, MATH 180, MATH 188 and one of MATH 101, MATH 105, MATH 121.

ECON 302-006 ECON V 302 006 Intermediate Microeconomic Analysis I W2

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 315, COMM 295 or FRE 295. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 104, MATH 110, MATH 120, MATH 180, MATH 188 and one of MATH 101, MATH 105, MATH 121.

ECON 302-007 ECON V 302 007 Intermediate Microeconomic Analysis I W2

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 315, COMM 295 or FRE 295. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 104, MATH 110, MATH 120, MATH 180, MATH 188 and one of MATH 101, MATH 105, MATH 121.

Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 303, ECON 306, or ECON 309. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 103, MATH 104, MATH 110, MATH 120, MATH 180, MATH 188 and one of MATH 101, MATH 105, MATH 121.

ECON 302-008 ECON V 302 008 Intermediate Microeconomic Analysis I W2

Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 303, ECON 306, or ECON 309. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 103, MATH 104, MATH 110, MATH 120, MATH 180, MATH 188 and one of MATH 101, MATH 105, MATH 121.

ECON 302-009 ECON V 302 009 Intermediate Microeconomic Analysis I W2

Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 303, ECON 306, or ECON 309. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 103, MATH 104, MATH 110, MATH 120, MATH 180, MATH 188 and one of MATH 101, MATH 105, MATH 121.

ECON 302-010 ECON V 302 010 Intermediate Microeconomic Analysis I W2

Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 303, ECON 306, or ECON 309. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 103, MATH 104, MATH 110, MATH 120, MATH 180, MATH 188 and one of MATH 101, MATH 105, MATH 121.

ECON 302-011 ECON V 302 011 Intermediate Microeconomic Analysis I W1

Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 303, ECON 306, or ECON 309. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 103, MATH 104, MATH 110, MATH 120, MATH 180, MATH 188 and one of MATH 101, MATH 105, MATH 121.

ECON 302-012 ECON V 302 012 Intermediate Microeconomic Analysis I W1

Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 303, ECON 306, or ECON 309. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 103, MATH 104, MATH 110, MATH 120, MATH 180, MATH 188 and one of MATH 101, MATH 105, MATH 121.

ECON 302-013 ECON V 302 013 Intermediate Microeconomic Analysis I W1

Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 303, ECON 306, or ECON 309. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 103, MATH 104, MATH 110, MATH 120, MATH 180, MATH 188 and one of MATH 101, MATH 105, MATH 121.

ECON 302-014 ECON V 302 014 Intermediate Microeconomic Analysis I W1

Income and employment theory, monetary theory, the open economy, economic fluctuations and growth. Credit will be granted for only one of ECON 303, ECON 306, or ECON 309. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 103, MATH 104, MATH 110, MATH 120, MATH 180, MATH 188 and one of MATH 101, MATH 105, MATH 121.

Risk and uncertainty, some concepts in game theory, adverse selection, moral hazard, bargaining, auctions. Credit will be granted for only one of ECON 303, or ECON 306, ECON 309. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 295.

ECON 302-015 ECON V 302 015 Intermediate Microeconomic Analysis I W2

ECON 302-016 ECON V 302 016 Intermediate Microeconomic Analysis I W2
W1  Tue Thu  4:00 p.m. - 5:00 p.m.  L02  Intermediate Microeconomics II
In Person Learning  Mon  4:00 p.m. - 5:00 p.m.

W2  303  L3A  Intermediate Microeconomics II  W2  Risk and uncertainty, some concepts in game theory, adverse selection, moral hazard, bargaining, auctions. Credit will be granted for only one of ECON 302 or ECON 306; ECON 306. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 395.

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

W1  304  L01  Honours Intermediate Microeconomic Analysis I  W1  Risk and uncertainty, some concepts in game theory, adverse selection, moral hazard, bargaining, auctions. Credit will be granted for only one of ECON 302 or ECON 306; ECON 306. Prerequisite: One of ECON 301, ECON 304, ECON 315, COMM 395.

In Person Learning  Tue Thu  9:30 a.m. - 11:10 a.m.

W1  305  L01  Honours Intermediate Microeconomic Analysis I  W1  Consumer behavior, uncertainty, produce theory, monopoly, oligopoly, and equilibrium analysis. Credit will be granted for only one of ECON 302, ECON 304, ECON 315, COMM 395 or ECON 306. Prerequisite: All of ECON 301 (or a score of 68% or higher in ECON 301), ECON 315 (or a score of 68% or higher in one of ECON 302, ECON 305, ECON 310), (ii) completion of one of MATH 102, MATH 103, MATH 110, MATH 122, MATH 123, MATH 124, and (iii) completion of one of MATH 101, MATH 102, MATH 103, MATH 121.

In Person Learning  Thu  12:10 p.m. - 2:00 p.m.

W2  306  L01  Honours Intermediate Microeconomic Analysis II  W2  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, or ECON 308. Prerequisite: A score of 68% or higher in one of ECON 101, ECON 310. A score of 68% or higher in one of ECON 102, ECON 211 and a score of 68% or higher in one of MATH 100, MATH 102, MATH 103, MATH 110, MATH 120, MATH 121, MATH 122, MATH 124, and a score of 68% or higher in one of MATH 101, MATH 102, MATH 103, MATH 121.

In Person Learning  Fri  4:00 p.m. - 5:00 p.m.

W2  307  L01  Honours Intermediate Microeconomic Analysis II  W2  Microeconomic Theory with computational applications. Topics may include risk and uncertainty, information economics, game theory, bargaining, auctions. Knowledge of python and is useful but not required. Credit will be granted for only one of ECON 303 or ECON 306. Prerequisite: A score of 68% or higher in ECON 204. Permission of the School is also acceptable.

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

W2  308  L01  Honours Intermediate Microeconomic Analysis II  W2  Microeconomic Theory with computational applications. Topics may include risk and uncertainty, information economics, game theory, bargaining, auctions. Knowledge of python and is useful but not required. Credit will be granted for only one of ECON 303 or ECON 306. Prerequisite: A score of 68% or higher in one of ECON 101, ECON 310 and a score of 68% or higher in one of ECON 102, ECON 211 and a score of 68% or higher in one of MATH 100, MATH 102, MATH 103, MATH 110, MATH 120, MATH 121, MATH 122, MATH 124, and a score of 68% or higher in one of MATH 101, MATH 102, MATH 103, MATH 121.

In Person Learning  Fri  11:00 a.m. - 12:30 p.m.

W2  309  L01  Intermediate Open Economy Macroeconomics  W2  The aggregate economy with emphasis on macroeconomic policy and international economic growth, money and inflation, unemployment, business cycles, and macroeconomic stabilization policy under fixed and flexible exchange rates. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 302, ECON 304 or ECON 309. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 103, MATH 110, MATH 120, MATH 121, MATH 122, MATH 124, and one of MATH 101, MATH 103, MATH 105, MATH 121.

In Person Learning  Tue  9:30 a.m. - 11:10 a.m.

W2  309  L02  Intermediate Open Economy Macroeconomics  W2  The aggregate economy with emphasis on macroeconomic policy and international economic growth, money and inflation, unemployment, business cycles, and macroeconomic stabilization policy under fixed and flexible exchange rates. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 302, ECON 304 or ECON 309. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311 and one of MATH 100, MATH 102, MATH 103, MATH 110, MATH 120, MATH 121, MATH 122, MATH 124, and one of MATH 101, MATH 103, MATH 105, MATH 121.

In Person Learning  Thu  12:10 p.m. - 2:00 p.m.

W2  310  L01  Principles of Microeconomics  W2  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 or ECON 312. Prerequisite: Third-year, fourth-year, or graduate standing.

In Person Learning  Mon Wed  10:30 a.m. - 12:30 p.m.

W2  310  L02  Principles of Microeconomics  W2  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 or ECON 312. Prerequisite: Third-year, fourth-year, or graduate standing.

In Person Learning  Mon  4:00 p.m. - 5:00 p.m.
ECON 311-001 ECON_V 311 311 Principles of Macroeconomics W2 The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 302. Prerequisite: Third-year, fourth-year, or graduate standing.

ECON 311-L06 ECON_V 311 311 Principles of Macroeconomics W2 The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 302. Prerequisite: Third-year, fourth-year, or graduate standing.

ECON 311-L02 ECON_V 311 311 Principles of Macroeconomics W2 The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 302. Prerequisite: Third-year, fourth-year, or graduate standing.

ECON 311-L03 ECON_V 311 311 Principles of Macroeconomics W2 The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 302. Prerequisite: Third-year, fourth-year, or graduate standing.

ECON 311-L04 ECON_V 311 311 Principles of Macroeconomics W2 The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 302. Prerequisite: Third-year, fourth-year, or graduate standing.

ECON 311-L05 ECON_V 311 311 Principles of Macroeconomics W2 The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 302. Prerequisite: Third-year, fourth-year, or graduate standing.

ECON 311-L06 ECON_V 311 311 Principles of Macroeconomics W2 The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 302. Prerequisite: Third-year, fourth-year, or graduate standing.

ECON 311-L02 ECON_V 311 311 Principles of Macroeconomics W2 The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 302. Prerequisite: Third-year, fourth-year, or graduate standing.

ECON 311-L03 ECON_V 311 311 Principles of Macroeconomics W2 The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 302. Prerequisite: Third-year, fourth-year, or graduate standing.

ECON 311-L04 ECON_V 311 311 Principles of Macroeconomics W2 The scope of this course is approximately the same as that of ECON 102. The course is intended for upper-level students only. Credit will be granted for only one of ECON 311 or ECON 302. Prerequisite: Third-year, fourth-year, or graduate standing.

ECON 315-001 ECON_V 315 315 Intermediate Microeconomics I W1 Consumer behaviour, producer theory, exchange, monopoly, oligopoly, externalities, public goods, general equilibrium and welfare economics. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 315, ECON 301, ECON 303. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 102, ECON 310 and one of MATH 100, MATH 101, MATH 102, MATH 103, MATH 104, MATH 121, MATH 120, MATH 180, MATH 184 and one of MATH 105, MATH 106, MATH 107, MATH 121.

ECON 315-01 ECON_V 315 315 Intermediate Microeconomics I W1 Consumer behaviour, producer theory, exchange, monopoly, oligopoly, externalities, public goods, general equilibrium and welfare economics. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 315, ECON 301, ECON 303. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 101, MATH 102, MATH 103, MATH 104, MATH 120, MATH 180, MATH 184 and one of MATH 105, MATH 106, MATH 107, MATH 121.

ECON 315-02 ECON_V 315 315 Intermediate Microeconomics I W1 Consumer behaviour, producer theory, exchange, monopoly, oligopoly, externalities, public goods, general equilibrium and welfare economics. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 315, ECON 301, ECON 303. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 310 and one of MATH 100, MATH 101, MATH 102, MATH 103, MATH 104, MATH 120, MATH 180, MATH 184 and one of MATH 105, MATH 106, MATH 107, MATH 121.

ECON 316-001 ECON_V 316 316 Intermediate Microeconomics II W2 Advanced topics in intermediate microeconomics: risk and uncertainty, some concepts in game theory, adverse selection, moral hazard, bargaining, auctions. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 316 or ECON 303. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 301, ECON 315. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 301, ECON 315. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 301, ECON 315.

ECON 316-01 ECON_V 316 316 Intermediate Microeconomics II W2 Advanced topics in intermediate microeconomics: risk and uncertainty, some concepts in game theory, adverse selection, moral hazard, bargaining, auctions. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 316 or ECON 303. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 301, ECON 315. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 301, ECON 315. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 301, ECON 315.

ECON 316-02 ECON_V 316 316 Intermediate Microeconomics II W2 Advanced topics in intermediate microeconomics: risk and uncertainty, some concepts in game theory, adverse selection, moral hazard, bargaining, auctions. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 316 or ECON 303. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 101, ECON 301, ECON 315.

ECON 317-001 ECON_V 317 317 Poverty and Inequality W2 Economic inequality in Canada and other countries; measurement and causes. Inequality in the distribution of wealth; redistribution of income and wealth; notions of distributive justice. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.

ECON 317-002 ECON_V 317 317 Poverty and Inequality W2 Economic inequality in Canada and other countries; measurement and causes. Inequality in the distribution of wealth; redistribution of income and wealth; notions of distributive justice. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.

ECON 317-01 ECON_V 317 317 Poverty and Inequality W2 Economic inequality in Canada and other countries; measurement and causes. Inequality in the distribution of wealth; redistribution of income and wealth; notions of distributive justice. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.

ECON 317-02 ECON_V 317 317 Poverty and Inequality W2 Economic inequality in Canada and other countries; measurement and causes. Inequality in the distribution of wealth; redistribution of income and wealth; notions of distributive justice. Prerequisite: One of ECON 101, ECON 310 and one of ECON 102, ECON 311.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>ECON_V 318-001</td>
<td>History and Philosophy of Economics from Aristotle to Adam Smith</td>
<td>W1</td>
<td>Tue</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ECON_V 319-001</td>
<td>History and Philosophy of Economics from Ricardo to Keynes</td>
<td>W2</td>
<td>Tue</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ECON_V 323-001</td>
<td>Quantitative Economic Modelling with Data Science Applications</td>
<td>W1</td>
<td>Tue</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ECON_V 325-002</td>
<td>Introduction to Econometrics I</td>
<td>W2</td>
<td>Tue</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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Additional course details not included in the image.
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<th>Course Code</th>
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<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>ECON_V 326-001</td>
<td>3</td>
<td>Introduction to Econometrics II</td>
<td>W1</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ECON_V 326-003</td>
<td>3</td>
<td>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 316, ECON 328, STAT 306. Prerequisite: AR of ECON 101, 102; One of ECON 202, ECON 287, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.</td>
<td>W1</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ECON_V 326-005</td>
<td>3</td>
<td>Introduction to Econometrics II</td>
<td>W2</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ECON_V 326-006</td>
<td>3</td>
<td>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 316, ECON 328, STAT 306. Prerequisite: AR of ECON 101, 102; One of ECON 202, ECON 287, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.</td>
<td>W2</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ECON_V 333-001</td>
<td>3</td>
<td>Economic History of Europe from the Paleolithic to the Industrial Revolution</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>

**Prerequisites:**
- Basic tools for the statistical analysis of economic data. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 315, ECON 327, COMM 191, STAT 200, STAT 241, STAT 251. Prerequisite: ECON 101, ECON 102 and one of MATH 100, MATH 102, MATH 104, MATH 121, MATH 110, MATH 120, MATH 160, MATH 164, and one of MATH 101, MATH 103, MATH 105, MATH 121.
- 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 316, ECON 328, STAT 306. Prerequisite: AR of ECON 101, 102; One of ECON 202, ECON 287, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.
- Empirical tools used in applied research, with emphasis on the linear regression model. Registration restricted to students in the Bachelor of International Economics Program. Credit will be granted for only one of ECON 326, ECON 328, STAT 306, or LFS 252. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ECON 202, ECON 287, COMM 191, STAT 200, STAT 241, STAT 251, LFS 252.
The conditions and causes of long run growth from nomadism to agriculture to industrialized states, including institutions, geography, culture, colonization, and slave trades. Determinants of the need for consumer and industrial revolutions, demographic transition and factors of globalization. Prerequisite: One of ECON 101, ECON 102 and one of ECON 103, ECON 311. Hybrid Learning Tue Thu 9:30 a.m. - 11:00 a.m.

Traditional fertility and mobility patterns, demographic transition, catastrophes, well-being and nutrition, international and inter-regional migration, epidemics and growth spurts. Prerequisite: One of ECON 101, ECON 102 and one of ECON 103, ECON 311. In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.

Financial markets and financial institutions in theory and practice; structure and development of the Canadian financial system; development and history of the regulation of the financial system; process of monetary control; theory and history of central banking and monetary policy. Prerequisite: One of ECON 101, ECON 102 and one of ECON 102, ECON 311. In Person Learning Mon Wed Fri 1:30 p.m. - 2:00 p.m.

Financial markets and financial institutions in theory and practice; structure and development of the Canadian financial system; development and history of the regulation of the financial system; process of monetary control; theory and history of central banking and monetary policy. Prerequisite: One of ECON 101, ECON 102 and one of ECON 102, ECON 311. In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.

Financial markets and financial institutions in theory and practice; structure and development of the Canadian financial system; development and history of the regulation of the financial system; process of monetary control; theory and history of central banking and monetary policy. Prerequisite: One of ECON 101, ECON 102 and one of ECON 102, ECON 311. In Person Learning Tue Thu 3:30 p.m. - 4:10 p.m.

In Person Learning Tue Thu 3:30 p.m. - 4:10 p.m.

In Person Learning Tue Thu 3:30 p.m. - 4:10 p.m.

In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.

In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.

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In Person Learning Tue Thu 3:30 p.m. - 4:10 p.m.
Introduction to Economic Research

Theory and practice of the analytical application of economics. Casuality, empirical analysis, and the application of theoretical models through empirical analysis. Prerequisite: Either (a) one of ECON 101, ECON 102, ECON 103, ECON 104, and one of STAT 200, STAT 201, STAT 202, STAT 203, or (b) one of ECON 101, ECON 102, ECON 103, and one of STAT 200, STAT 201, STAT 202, STAT 203.

Introduction to Causal Methods

Theory and practice of the analytical application of economics. Casuality, empirical analysis, and the application of theoretical models through empirical analysis. Prerequisite: Either (a) one of ECON 101, ECON 102, ECON 103, ECON 104, and one of STAT 200, STAT 201, STAT 202, STAT 203, or (b) one of ECON 101, ECON 102, ECON 103, and one of STAT 200, STAT 201, STAT 202, STAT 203.

Computational Methods in Macroeconomics

Introduction to Causal Methods

Computational tools and algorithms used in macroeconomics and financial economics including applications to unemployment, inequality, asset pricing, and economic growth. Prerequisite: One of ECON 301, ECON 304, ECON 312 and one of ECON 323, CPSC 107, CPSC 212, CPSC 361, MATH 210, MATH 211, MATH 212, MATH 213, MATH 214, MATH 215.

Principles of rational behavior in strategic situations and various notions of equilibrium useful in predicting outcomes. Applications from economics, business, politics, law and anthropology. Prerequisite: One of ECON 301, ECON 302, ECON 304, ECON 310, COMM 291.

Principles of rational behavior in strategic situations and various notions of equilibrium useful in predicting outcomes. Applications from economics, business, politics, law and anthropology. Prerequisite: One of ECON 301, ECON 302, ECON 304, ECON 310, COMM 291.

Advanced Econometrics

The study and analysis of advanced econometric models. Topics may include statistical inference on various models with uncertainty 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 301, ECON 302, ECON 303, or one of ECON 301, ECON 302, ECON 303, STAT 306, STAT 307, or one of ECON 304, ECON 313, ECON 314, ECON 315.

The study and analysis of advanced econometric models. Topics may include statistical inference on various models with uncertainty 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 301, ECON 302, ECON 303, or one of ECON 301, ECON 302, ECON 303, STAT 306, STAT 307, or one of ECON 304, ECON 313, ECON 314, ECON 315.

The study and analysis of advanced econometric models. Topics may include statistical inference on various models with uncertainty 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 301, ECON 302, ECON 303, or one of ECON 301, ECON 302, ECON 303, STAT 306, STAT 307, or one of ECON 304, ECON 313, ECON 314, ECON 315.

ECON 456-001

ECON 456-001

International Macroeconomics

ECON 456-001

International Macroeconomics

ECON 456-001

International Macroeconomics

Balance of payments; market for foreign exchange; mechanism for adjusting the balance of payments; interest rates; external stability; current problems and issues. Credit will be granted for only one of ECON 442, ECON 443, or one of ECON 441, ECON 442, ECON 443, ECON 444.

Selected topics in economic research. Application of research methods to economic data. Credit will be granted for only one of ECON 380, ECON 381, ECON 382, ECON 383, ECON 384. This course is not eligible for Credit/No Credit grading. Prerequisite: One of ECON 301, ECON 302 and one of ECON 101, ECON 102 and one of MATH 100, MATH 102, MATH 104, MATH 105, MATH 110, MATH 112, MATH 114, MATH 116, MATH 118. In Person Learning

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Balance of payments; market for foreign exchange; mechanism for adjusting the balance of payments; interest rates, external stability; current problems and issues. Credit will be granted for only one of ECON 495, ECON 499, or COEC 377. Prerequisite: One of ECON 301, ECON 351, and ECON 360.

Seminar in International Economic Relations

The theory of labour supply and demand for individuals, households, and firms. Policy implications for Canadian taxation and benefit programs. Employee selection, hiring and promotion. Credit may not be obtained for both ECON 366 and 460. Prerequisite: One of ECON 301, ECON 351, ECON 360, COMM 305 and one of ECON 305, ECON 306, ECON 307.

Economics of Labour Markets

Market structure and social welfare; theory of price discrimination; equilibrium in oligopolistic markets, entry and exit decisions, product differentiation and spatial models, theories of hierarchical organizations, agency problem in the modern corporation, vertical integration and control, market structure and technical progress. Prerequisite: One of ECON 301, ECON 351, ECON 356, COMM 306.

Market Structure

Market structure and social welfare; theory of price discrimination; equilibrium in oligopolistic markets, entry and exit decisions, product differentiation and spatial models, theories of hierarchical organizations, agency problem in the modern corporation, vertical integration and control, market structure and technical progress. Prerequisite: One of ECON 301, ECON 351, ECON 356, COMM 306.

Economics of Renewable Resources

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 351, COMM 305.

Political Economy

Applied and policy in economics. How states emerge, how dictators stay in power. Why groups engage in conflict, how countries turn into democracies and what its benefits are. Prerequisite: One of ECON 301, ECON 305, ECON 310 and one of ECON 201, ECON 202, ECON 206, ECON 208, ECON 210, ECON 212, ECON 214.

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.

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.

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.

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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.

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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.

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.
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<th>Semester</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
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<tr>
<td>ECON_V500</td>
<td>Advanced Empirical Methods for International Economics</td>
<td>W1</td>
<td>In Person Learning</td>
<td>11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>ECON_V504</td>
<td>Microeconomics</td>
<td>W1</td>
<td>In Person Learning</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>ECON_V526</td>
<td>Quantitative Economics with Data Science Applications</td>
<td>W1</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>ECON_V527</td>
<td>Econometric Methods of Economic Research</td>
<td>W1</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td></td>
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<tr>
<td>ECON_V531</td>
<td>Economic History I</td>
<td>W2</td>
<td>In Person Learning</td>
<td>5:30 p.m. - 7:00 p.m.</td>
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<tr>
<td>ECON_V540</td>
<td>Economic Development I</td>
<td>W1</td>
<td>In Person Learning</td>
<td>7:00 p.m. - 9:00 p.m.</td>
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<tr>
<td>ECON_V542</td>
<td>Political Economy I</td>
<td>W1</td>
<td>In Person Learning</td>
<td>7:00 p.m. - 9:00 p.m.</td>
<td></td>
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</table>

**Course Descriptions**

**ECON_V500 Advanced Empirical Methods for International Economics**

- Course code: ECON_V500
- Course title: Advanced Empirical Methods for International Economics
- Semester: W1
- Days: In Person Learning
- Time: 11:00 a.m. - 12:30 p.m.

**ECON_V504 Microeconomics**

- Course code: ECON_V504
- Course title: Microeconomics
- Semester: W1
- Days: In Person Learning
- Time: 9:30 a.m. - 11:00 a.m.

**ECON_V526 Quantitative Economics with Data Science Applications**

- Course code: ECON_V526
- Course title: Quantitative Economics with Data Science Applications
- Semester: W1
- Days: In Person Learning
- Time: 2:00 p.m. - 3:30 p.m.

**ECON_V527 Econometric Methods of Economic Research**

- Course code: ECON_V527
- Course title: Econometric Methods of Economic Research
- Semester: W1
- Days: In Person Learning
- Time: 2:00 p.m. - 3:30 p.m.

**ECON_V531 Economic History I**

- Course code: ECON_V531
- Course title: Economic History I
- Semester: W2
- Days: In Person Learning
- Time: 5:30 p.m. - 7:00 p.m.

**ECON_V540 Economic Development I**

- Course code: ECON_V540
- Course title: Economic Development I
- Semester: W2
- Days: In Person Learning
- Time: 7:00 p.m. - 9:00 p.m.

**ECON_V542 Political Economy I**

- Course code: ECON_V542
- Course title: Political Economy I
- Semester: W1
- Days: In Person Learning
- Time: 7:00 p.m. - 9:00 p.m.
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
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<tr>
<td>ECON 544</td>
<td>Political Economy I</td>
<td>3</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ECON 546</td>
<td>Monetary Theory and Policy I</td>
<td>3</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ECON 550</td>
<td>Public Economics I</td>
<td>3</td>
<td>Mon Wed</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ECON 551</td>
<td>Public Economics II</td>
<td>3</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ECON 553</td>
<td>Wealth and Income Inequality</td>
<td>3</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ECON 555</td>
<td>International Trade</td>
<td>3</td>
<td>Tue Thu</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ECON 556</td>
<td>International Finance</td>
<td>3</td>
<td>Tue Thu</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ECON 560</td>
<td>Economics of Labour I</td>
<td>3</td>
<td>Mon Wed</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ECON 561</td>
<td>Economics of Labour II</td>
<td>3</td>
<td>Mon Wed</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ECON 562</td>
<td>Research Design and Policy Evaluation in Economics</td>
<td>3</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ECON 567</td>
<td>Organisation Theory and Non-market Allocation</td>
<td>3</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ECON 573</td>
<td>Environmental Economics I</td>
<td>3</td>
<td>Mon Wed</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<td>ECON 574</td>
<td>Environmental Economics II</td>
<td>3</td>
<td>Mon Wed</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ECON 580</td>
<td>Special Advanced Course</td>
<td>3</td>
<td>Mon Wed</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>ECON 600</td>
<td>Microeconomics I</td>
<td>3</td>
<td>Mon Wed</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>ECON 601</td>
<td>Microeconomics II</td>
<td>3</td>
<td>Mon Wed</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>ECON 602</td>
<td>Macroeconomics I</td>
<td>3</td>
<td>Mon Wed</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>ECON 603</td>
<td>Macroeconomics II</td>
<td>3</td>
<td>Mon Wed</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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</table>
Computation tools used in modern economic research; applications of data science and machine learning in economics; generating data from the web and text; software tools for reproducible research. Course restricted to ECON PhD students only. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: ECON 627. Prior graduate-level work in econometrics is required.

In Person Learning  Mon Wed  9:30 a.m. - 11:08 a.m.

**ECON 626-001**  ECON_V  626  001  Econometric Theory I  W1  Restricted to M.A., M.ECON, Ph.D. ECON. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: (ECON262)

In Person Learning  Mon Wed  11:00 a.m. - 12:30 p.m.

**ECON 626-L1A**  ECON_V  626  L1A  Econometric Theory I  W1  Course restricted to ECON PhD students only. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: (ECON262)

In Person Learning  Fri  1:30 p.m. - 3:00 p.m.

**ECON 627-001**  ECON_V  627  001  Econometric Theory II  W2  Course restricted to ECON PhD students only. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: (ECON626)

In Person Learning  Tue-Thu  2:00 p.m. - 3:30 p.m.

**ECON 627-L1A**  ECON_V  627  L1A  Econometric Theory II  W2  Course restricted to ECON PhD students only. External students may request permission to take this course from the ECON graduate program office. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of ECON 503, ECON 502, ECON 526, ECON 527. Prior graduate-level work in econometrics is required.

In Person Learning  Mon  2:00 p.m. - 3:30 p.m.

**ECON 628 A-001**  ECON_V  628  A  6_001  Topics in Applied Econometrics I  W1-2  Course restricted to ECON PhD students only. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Fri  1:00 p.m. - 2:30 p.m.

**ECON 640-001**  ECON_V  640  001  Ph.D. Research Seminar  W1-2  Course restricted to ECON PhD students only. Pass/Fail.

In Person Learning  Arranged  Arranged

**ECON 699-001**  ECON_V  699  001  Doctoral Dissertation  W1-2  Course restricted to ECON PhD students only. Pass/Fail.

In Person Learning  Arranged  Arranged

**ECON 699-002**  ECON_V  699  002  Doctoral Dissertation  W1  Course restricted to ECON PhD students only. Pass/Fail.

In Person Learning  Arranged  Arranged

**ECON 699-003**  ECON_V  699  003  Doctoral Dissertation  W2  Course restricted to ECON PhD students only. Pass/Fail.

In Person Learning  Arranged  Arranged

**ECPS_V 490-A-001**  ECPS_V  490  A  A_001  Directed Study in Educational & Counselling Psychology, and Special Education  W1  Directed investigation of a problem or issue, requiring a written report or alternate mode of reporting or disseminating results of the investigation. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to registration.

In Person Learning  Arranged  Arranged

**ECPS_V 490-B-002**  ECPS_V  490  B  B_002  Directed Study in Educational & Counselling Psychology, and Special Education  W2  Directed investigation of a problem or issue, requiring a written report or alternate mode of reporting or disseminating results of the investigation. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to registration.

In Person Learning  Arranged  Arranged

**ECPS_V 490-C-003**  ECPS_V  490  C  C_003  Directed Study in Educational & Counselling Psychology, and Special Education  W1-2  Directed investigation of a problem or issue, requiring a written report or alternate mode of reporting or disseminating results of the investigation. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to registration.

In Person Learning  Arranged  Arranged

**EDCP_V 210-001**  EDCP_V  210  001  Introduction to Music Education  W1  Role of music education in schools and society, including historical, philosophical, psychological, and sociological perspectives. Includes guided class observations and practice music teaching in elementary and secondary schools. Criminal Record Checks required. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Fri  8:00 a.m. - 12:00 p.m.

**EDCP_V 301-011**  EDCP_V  301  011  Art - Elementary: Curriculum and Pedagogy  W2  Pass/Fail. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Mon Wed  8:00 a.m. - 10:30 a.m.

**EDCP_V 301-012**  EDCP_V  301  012  Art - Elementary: Curriculum and Pedagogy  W1  Pass/Fail. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Mon  10:00 a.m. - 12:30 p.m.

**EDCP_V 301-013**  EDCP_V  301  013  Art - Elementary: Curriculum and Pedagogy  W1  Pass/Fail. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Wed  1:00 p.m. - 3:00 p.m.

**EDCP_V 301-014**  EDCP_V  301  014  Art - Elementary: Curriculum and Pedagogy  W2  Pass/Fail. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue  8:00 a.m. - 11:30 a.m.

**EDCP_V 301-015**  EDCP_V  301  015  Art - Elementary: Curriculum and Pedagogy  W1  Pass/Fail. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Fri  2:00 p.m. - 4:00 p.m.

**EDCP_V 301-017**  EDCP_V  301  017  Art - Elementary: Curriculum and Pedagogy  W1  Pass/Fail. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue  11:00 a.m. - 1:00 p.m.

**EDCP_V 301-018**  EDCP_V  301  018  Art - Elementary: Curriculum and Pedagogy  W2  Pass/Fail. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Mon Wed  1:00 p.m. - 3:00 p.m.

**EDCP_V 301-019**  EDCP_V  301  019  Art - Elementary: Curriculum and Pedagogy  W2  Pass/Fail. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue  8:30 a.m. - 10:30 a.m.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
<th>Day(s)</th>
<th>Time</th>
<th>Type</th>
<th>Instructor(s)</th>
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<tbody>
<tr>
<td>EDCP 310-110</td>
<td>Textile Design and Pedagogical Approaches: Art Education</td>
<td>2</td>
<td>Winter</td>
<td>Tue</td>
<td>10:30 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
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<td>EDCP 310-640</td>
<td>Instrumental Pedagogy: Secondary</td>
<td>2</td>
<td>Winter</td>
<td>Mon-Wed</td>
<td>2:00 p.m. - 7:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon-Wed</td>
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<tr>
<td>EDCP 310-A_301</td>
<td>Art - Elementary: Curriculum and Pedagogy</td>
<td>3</td>
<td>Winter</td>
<td>W1-W2</td>
<td>8:00 a.m. - 10:00 a.m.</td>
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<td>3</td>
<td>Winter</td>
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<td>1:00 p.m. - 3:00 p.m.</td>
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<td>EDCP 310-A_640</td>
<td>Ceramic Design and Pedagogical Approaches: Art Education</td>
<td>1.5</td>
<td>Winter</td>
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<td>4:30 p.m. - 8:30 p.m.</td>
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<td>EDCP 310-301</td>
<td>Digital Media in Arts Education: Introduction</td>
<td>1.5</td>
<td>Winter</td>
<td>Tue-W2</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>Tue-W2</td>
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<td>EDCP 310-303</td>
<td>Digital Media in Arts Education: Advanced</td>
<td>1.5</td>
<td>Winter</td>
<td>Tue-W2</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDCP 310-308</td>
<td>Music - Elementary: Curriculum and Pedagogy</td>
<td>3</td>
<td>Winter</td>
<td>Mon</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
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<td>EDCP 310-312</td>
<td>Music - Elementary: Curriculum and Pedagogy</td>
<td>3</td>
<td>Winter</td>
<td>Mon-Wed</td>
<td>2:00 p.m. - 7:00 p.m.</td>
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<td>EDCP 310-313</td>
<td>Music - Elementary: Curriculum and Pedagogy</td>
<td>3</td>
<td>Winter</td>
<td>Mon-Wed</td>
<td>2:00 p.m. - 7:00 p.m.</td>
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<td>EDCP 310-314</td>
<td>Music - Elementary: Curriculum and Pedagogy</td>
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<td>Winter</td>
<td>Mon-Wed</td>
<td>2:00 p.m. - 7:00 p.m.</td>
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<td>EDCP 310-315</td>
<td>Music - Elementary: Curriculum and Pedagogy</td>
<td>3</td>
<td>Winter</td>
<td>Mon-Wed</td>
<td>2:00 p.m. - 7:00 p.m.</td>
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<td>EDCP 310-317</td>
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<td>3</td>
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<td>Mon-Wed</td>
<td>2:00 p.m. - 7:00 p.m.</td>
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<td>EDCP 310-318</td>
<td>Music - Elementary: Curriculum and Pedagogy</td>
<td>3</td>
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<td>Mon-Wed</td>
<td>2:00 p.m. - 7:00 p.m.</td>
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<td>EDCP 310-319</td>
<td>Music - Elementary: Curriculum and Pedagogy</td>
<td>3</td>
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<td>Fri</td>
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<td>3</td>
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<td>Mon</td>
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<td>EDCP 310-640</td>
<td>Music - Elementary: Curriculum and Pedagogy</td>
<td>3</td>
<td>Winter</td>
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<td>EDCP 311-A_301</td>
<td>Music - Secondary: Curriculum and Pedagogy</td>
<td>3</td>
<td>Winter</td>
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<td>8:00 a.m. - 10:00 a.m.</td>
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<td>Winter</td>
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<td>331-101</td>
<td>Mon</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>A, A_301</td>
<td>Choral Pedagogy - Secondary</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: None.</td>
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<td>EDCP_V 331-110</td>
<td>Social Studies - Elementary: Curriculum and Pedagogy</td>
<td>100</td>
<td>1:00 p.m. - 2:30 p.m.</td>
<td>In Person</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>EDCP_V 331-640</td>
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<td>640</td>
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<td>Social Studies - Elementary: Curriculum and Pedagogy</td>
<td>641</td>
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<td>650</td>
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<td>EDCP_V 332-A_301</td>
<td>Social Studies - Secondary: Curriculum and Pedagogy</td>
<td>301</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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<tr>
<td>EDCP_V 332-A_302</td>
<td>Social Studies - Secondary: Curriculum and Pedagogy</td>
<td>302</td>
<td>2:00 p.m. - 4:30 p.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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<tr>
<td>EDCP_V 332-A_303</td>
<td>Social Studies - Secondary: Curriculum and Pedagogy</td>
<td>303</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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<td>EDCP_V 332-A_640</td>
<td>Social Studies - Secondary: Curriculum and Pedagogy</td>
<td>640</td>
<td>5:00 p.m. - 7:00 p.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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<tr>
<td>EDCP_V 333-301</td>
<td>Contemporary Issues in Social Studies - Secondary</td>
<td>301</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>In Person</td>
<td>Fri</td>
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<tr>
<td>EDCP_V 333-302</td>
<td>Contemporary Issues in Social Studies - Secondary</td>
<td>302</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>In Person</td>
<td>Fri</td>
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<tr>
<td>EDCP_V 340-101</td>
<td>Mathematics - Elementary and Middle Years: Curriculum and Pedagogy</td>
<td>101</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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<tr>
<td>EDCP_V 340-102</td>
<td>Mathematics - Elementary and Middle Years: Curriculum and Pedagogy</td>
<td>102</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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<td>EDCP_V 340-103</td>
<td>Mathematics - Elementary and Middle Years: Curriculum and Pedagogy</td>
<td>103</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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<tr>
<td>EDCP_V 340-104</td>
<td>Mathematics - Elementary and Middle Years: Curriculum and Pedagogy</td>
<td>104</td>
<td>12:00 p.m. - 2:00 p.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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<tr>
<td>EDCP_V 340-105</td>
<td>Mathematics - Elementary and Middle Years: Curriculum and Pedagogy</td>
<td>105</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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<td>EDCP_V 340-106</td>
<td>Mathematics - Elementary and Middle Years: Curriculum and Pedagogy</td>
<td>106</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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<tr>
<td>EDCP_V 340-107</td>
<td>Mathematics - Elementary and Middle Years: Curriculum and Pedagogy</td>
<td>107</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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<tr>
<td>EDCP_V 340-108</td>
<td>Mathematics - Elementary and Middle Years: Curriculum and Pedagogy</td>
<td>108</td>
<td>4:00 p.m. - 6:00 p.m.</td>
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<td>Mon, Wed</td>
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<tr>
<td>EDCP_V 340-109</td>
<td>Mathematics - Elementary and Middle Years: Curriculum and Pedagogy</td>
<td>109</td>
<td>5:00 p.m. - 7:00 p.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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<td>EDCP_V 340-110</td>
<td>Mathematics - Elementary and Middle Years: Curriculum and Pedagogy</td>
<td>110</td>
<td>6:00 p.m. - 8:00 p.m.</td>
<td>In Person</td>
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<tr>
<td>EDCP_V 340-640</td>
<td>Mathematics - Elementary and Middle Years: Curriculum and Pedagogy</td>
<td>640</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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<td>EDCP_V 342-A_301</td>
<td>Mathematics - Secondary: Curriculum and Pedagogy</td>
<td>301</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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<td>EDCP_V 342-A_640</td>
<td>Mathematics - Secondary: Curriculum and Pedagogy</td>
<td>640</td>
<td>4:00 p.m. - 6:00 p.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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<tr>
<td>EDCP_V 349-101</td>
<td>Science - Elementary: Curriculum and Pedagogy</td>
<td>101</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>In Person</td>
<td>Mon, Wed</td>
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Prerequisite: A completed concentration in mathematics or permission of the Head.
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<tr>
<th>Course Code</th>
<th>CRN</th>
<th>Schedule</th>
<th>Section</th>
<th>Credit Hours</th>
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<tr>
<td>EDCP_V 349-102</td>
<td>349</td>
<td>312</td>
<td>Science - Elementary: Curriculum and Pedagogy</td>
<td>W2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<td>EDCP_V 349-103</td>
<td>349</td>
<td>313</td>
<td>Science - Elementary: Curriculum and Pedagogy</td>
<td>W2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>EDCP_V 349-104</td>
<td>349</td>
<td>314</td>
<td>Science - Elementary: Curriculum and Pedagogy</td>
<td>W2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>10:30 a.m. - 1:00 p.m.</td>
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<td>EDCP_V 349-105</td>
<td>349</td>
<td>315</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</td>
<td>1:00 p.m. - 3:00 p.m.</td>
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<td>EDCP_V 349-107</td>
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<td>317</td>
<td>Science - Elementary: Curriculum and Pedagogy</td>
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<td>In Person Learning</td>
<td>Mon Wed</td>
<td>1:00 p.m. - 3:00 p.m.</td>
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<td>EDCP_V 349-108</td>
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<td>318</td>
<td>Science - Elementary: Curriculum and Pedagogy</td>
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<td>Mon Wed</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<td>EDCP_V 349-109</td>
<td>349</td>
<td>319</td>
<td>Science - Elementary: Curriculum and Pedagogy</td>
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<td>In Person Learning</td>
<td>Tue</td>
<td>1:30 p.m. - 3:30 p.m.</td>
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<td>EDCP_V 349-110</td>
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<td>311</td>
<td>Science - Elementary: Curriculum and Pedagogy</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>8:00 a.m. - 10:30 a.m.</td>
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<td>EDCP_V 349-640</td>
<td>349</td>
<td>640</td>
<td>Science - Elementary: Curriculum and Pedagogy</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>EDCP_V 352-A_301</td>
<td>352</td>
<td>A_301</td>
<td>General Science - Secondary: Curriculum and Pedagogy</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>8:00 a.m. - 9:10 a.m.</td>
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<tr>
<td>EDCP_V 352-A_302</td>
<td>352</td>
<td>A_302</td>
<td>General Science - Secondary: Curriculum and Pedagogy</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>EDCP_V 352-A_303</td>
<td>352</td>
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<td>General Science - Secondary: Curriculum and Pedagogy</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<td>EDCP_V 352-A_640</td>
<td>352</td>
<td>A_640</td>
<td>General Science - Secondary: Curriculum and Pedagogy</td>
<td>W2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>EDCP_V 354-A_301</td>
<td>354</td>
<td>A_301</td>
<td>Biological Sciences - Secondary: Curriculum and Pedagogy</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
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<td>EDCP_V 354-A_302</td>
<td>354</td>
<td>A_302</td>
<td>Biological Sciences - Secondary: Curriculum and Pedagogy</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>11:00 a.m. - 12:30 p.m.</td>
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<td>EDCP_V 354-A_640</td>
<td>354</td>
<td>A_640</td>
<td>Biological Sciences - Secondary: Curriculum and Pedagogy</td>
<td>W2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>EDCP_V 355-A_301</td>
<td>355</td>
<td>A_301</td>
<td>Chemistry - Secondary: Curriculum and Pedagogy</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>8:00 a.m. - 9:10 a.m.</td>
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<td>EDCP_V 355-A_640</td>
<td>355</td>
<td>A_640</td>
<td>Chemistry - Secondary: Curriculum and Pedagogy</td>
<td>W2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>EDCP_V 356-A_301</td>
<td>356</td>
<td>A_301</td>
<td>Earth and Space Science - Secondary: Curriculum and Pedagogy</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<td>EDCP_V 356-A_640</td>
<td>356</td>
<td>A_640</td>
<td>Earth and Space Science - Secondary: Curriculum and Pedagogy</td>
<td>W2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>EDCP_V 357-A_301</td>
<td>357</td>
<td>A_301</td>
<td>Physics - Secondary: Curriculum and Pedagogy</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>2:30 p.m. - 4:00 p.m.</td>
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<td>EDCP_V 357-A_640</td>
<td>357</td>
<td>A_640</td>
<td>Physics - Secondary: Curriculum and Pedagogy</td>
<td>W2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>EDCP_V 362-B_301</td>
<td>362</td>
<td>B_301</td>
<td>Curriculum Design and Evaluation: Practical and Theoretical Issues</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>4:30 p.m. - 8:00 p.m.</td>
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<tr>
<td>EDCP_V 362-D_377</td>
<td>Curriculum Design and Evaluation: Practical and Theoretical Issues</td>
<td>W2</td>
<td>Mon</td>
<td>4:00 p.m. - 7:00 p.m.</td>
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<td>EDCP_V 362-D_624</td>
<td>Curriculum Design and Evaluation: Practical and Theoretical Issues</td>
<td>W2</td>
<td>Fri</td>
<td>5:00 p.m. - 7:00 p.m.</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 Curriculum: Elementary and Middle Years</td>
<td>W1</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>Business Education I - Secondary: Curriculum and Pedagogy</td>
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<td>Business Education I - Secondary: Curriculum and Pedagogy</td>
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<td>EDCP_V 379-301</td>
<td>Business Education II - Secondary: Curriculum and Pedagogy</td>
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<td>EDCP_V 391-A_301</td>
<td>Home Economics I - Secondary: Curriculum and Pedagogy</td>
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<td>EDCP_V 391-A_640</td>
<td>Home Economics I - Secondary: Curriculum and Pedagogy</td>
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<td>EDCP_V 391-A_641</td>
<td>Home Economics I - Secondary: Curriculum and Pedagogy</td>
<td>W2</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>EDCP_V 403-001</td>
<td>Visual Arts for Classroom Practice: Three-Dimensional Practices and Processes</td>
<td>W1</td>
<td>Pass/Fail</td>
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<tr>
<td>EDCP_V 404-001</td>
<td>Visual Arts for Classroom Practice: Textile Design</td>
<td>W2</td>
<td>Pass/Fail</td>
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<td>EDCP_V 408-301</td>
<td>Art, Education and Cultural Diversity</td>
<td>W1</td>
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<tr>
<td>EDCP_V 409-301</td>
<td>Art Education Theory and Research</td>
<td>W1</td>
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<td>EDCP_V 410-301</td>
<td>Music and Movement - Elementary: Curriculum and Pedagogy</td>
<td>W1</td>
<td>Pass/Fail</td>
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<td>EDCP_V 412-301</td>
<td>Conducting and Rehearsal Techniques for Teachers</td>
<td>W2</td>
<td>Pass/Fail</td>
<td>Pass/Fail. Required: EDSC 311A or prior experience in teaching music ensemble classes for secondary school students.</td>
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<td>EDCP_V 432-301</td>
<td>Special Study in Social Studies: Geography</td>
<td>W1</td>
<td>Pass/Fail</td>
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<tr>
<td>EDCP_V 432-302</td>
<td>Special Study in Social Studies: Geography</td>
<td>W1</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>EDCP_V 441-B_301</td>
<td>Assessment in Mathematics Education</td>
<td>W1</td>
<td>Recommended pre-requisite: two of EDCP 340, EDCP 342</td>
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<tr>
<td>EDCP_V 467-A_001</td>
<td>Special Topics in Curriculum and Pedagogy</td>
<td>W1</td>
<td>Pass/Fail</td>
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<td>EDCP V 467-B_002</td>
<td>467</td>
<td>B, 002</td>
<td>Special Topics in Curriculum and Pedagogy</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>EDCP V 467-C_001</td>
<td>467</td>
<td>C, 001</td>
<td>Special Topics in Curriculum and Pedagogy</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Thu 2:00 p.m. - 5:00 p.m.</td>
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<td>EDCP V 467-C_002</td>
<td>467</td>
<td>C, 002</td>
<td>Special Topics in Curriculum and Pedagogy</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed 1:00 p.m. - 2:10 p.m.</td>
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<tr>
<td>EDCP V 468-A_001</td>
<td>468</td>
<td>A, 001</td>
<td>Directed Study in Curriculum and Pedagogy</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<td>EDCP V 468-A_002</td>
<td>468</td>
<td>A, 002</td>
<td>Directed Study in Curriculum and Pedagogy</td>
<td>W2</td>
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<td>EDCP V 468-B_001</td>
<td>468</td>
<td>B, 001</td>
<td>Directed Study in Curriculum and Pedagogy</td>
<td>W1-2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<td>468</td>
<td>C, 001</td>
<td>Directed Study in Curriculum and Pedagogy</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<td>EDCP V 468-D_001</td>
<td>468</td>
<td>D, 001</td>
<td>Directed Study in Curriculum and Pedagogy</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<tr>
<td>EDCP V 471-A_001</td>
<td>471</td>
<td>A, 001</td>
<td>Technological Practices in Education: Technical Problems</td>
<td>W1</td>
<td>In Person Learning Mon Wed 9:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>EDCP V 472-301</td>
<td>472</td>
<td>301</td>
<td>Business Practices in Education</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon 4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>EDCP V 474-301</td>
<td>474</td>
<td>301</td>
<td>Digital Media in Education: Design and Pedagogy</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Mon 4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>EDCP V 491-301</td>
<td>491</td>
<td>301</td>
<td>Home Economics II - Secondary: Curriculum and Pedagogy</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: EDCP 301. In Person Learning Fri 1:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>EDCP V 491-62C</td>
<td>491</td>
<td>62C</td>
<td>Home Economics II - Secondary: Curriculum and Pedagogy</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: EDCP 301. Online Learning Arranged Arranged</td>
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<tr>
<td>EDCP V 492-62A</td>
<td>492</td>
<td>62A</td>
<td>Special Study in Home Economics: Textile Studies</td>
<td>W1</td>
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<td>EDCP V 498-62C</td>
<td>498</td>
<td>62C</td>
<td>Curriculum Inquiry in Home Economics Education</td>
<td>W1</td>
<td>Culminating inquiry in curriculum and pedagogy for the Home Economics Education Diploma. This course is not eligible for Credit/D/Fail grading. Online Learning Arranged Arranged</td>
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<td>EDCP V 498-62D</td>
<td>498</td>
<td>62D</td>
<td>Curriculum Inquiry in Home Economics Education</td>
<td>W2</td>
<td>Culminating inquiry in curriculum and pedagogy for the Home Economics Education Diploma. This course is not eligible for Credit/D/Fail grading. Online Learning Arranged Arranged</td>
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<td>EDCP V 501-61A</td>
<td>501</td>
<td>61A</td>
<td>Master's Seminar</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. Online Learning Arranged Arranged</td>
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<td>EDCP V 509-B_001</td>
<td>509</td>
<td>B, 001</td>
<td>Review of Research in Curriculum and Pedagogy</td>
<td>W1</td>
<td>Studies of recent research bearing on education practice. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Wed 4:30 p.m. - 7:30 p.m.</td>
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<td>EDCP V 509-B_61A</td>
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<td>Review of Research in Curriculum and Pedagogy</td>
<td>W1-2</td>
<td>Studies of recent research bearing on education practice. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. Online Learning Arranged Arranged</td>
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<td>EDCP V 509-B_61B</td>
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<td>Review of Research in Curriculum and Pedagogy</td>
<td>W1-2</td>
<td>Studies of recent research bearing on education practice. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. Online Learning Arranged Arranged</td>
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<td>EDCP V 510-001</td>
<td>510</td>
<td>001</td>
<td>Video Ethnography in Education Research: Culture, Technology, and Interpretation</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: A qualitative research methods course. In Person Learning Arranged Arranged</td>
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<td>EDCP V 512-A_002</td>
<td>512</td>
<td>A, 002</td>
<td>Education Action Research</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Wed 4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>EDCP V 513-001</td>
<td>513</td>
<td>001</td>
<td>Case Study Research and Cross-Cultural Analysis</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: A qualitative research methods course. In Person Learning Mon 4:30 p.m. - 7:30 p.m.</td>
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<td>EDCP V 514-002</td>
<td>514</td>
<td>002</td>
<td>Arts-Based Educational Research: A/r/tography</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Tue 4:30 p.m. - 7:30 p.m.</td>
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<td>EDCP_V 520-031</td>
<td>Perspectives, Practice, and Curriculum Issues in Contemporary Art Education</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Wed</td>
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<td>EDCP_V 521-032</td>
<td>Historical and Social Foundations of Art Education</td>
<td>W2</td>
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<td>EDCP_V 526-032</td>
<td>Theory and Principles of Music Education</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue</td>
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<td>EDCP_V 525-032</td>
<td>Research in School Health Education</td>
<td>W2</td>
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<td>Wed</td>
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<td>EDCP_V 527-031</td>
<td>Foundations of Home Economics Education</td>
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<td>EDCP_V 541-031</td>
<td>Problems in Historical Understanding</td>
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<td>EDCP_V 542-031</td>
<td>Theorizing Pedagogy</td>
<td>W2</td>
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<td>EDCP_V 542-032</td>
<td>Mathematics and Science Teaching and Learning with Technologies</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDCP_V 544-032</td>
<td>Mathematics and Science Teaching and Learning with Technologies</td>
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<td>EDCP_V 546-031</td>
<td>Indigenous Visual Expression as Pedagogy</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue</td>
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<td>EDCP_V 550-031</td>
<td>Mathematics Education: Origins and Issues</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDCP_V 551-031</td>
<td>Mathematics Education: Current Issues</td>
<td>W1</td>
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<td>EDCP_V 552-032</td>
<td>Mathematics Education: Beyond the Early Years</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed</td>
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<td>EDCP_V 553-031</td>
<td>History and Social Foundations of Art Education</td>
<td>W2</td>
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<td>EDCP_V 553-032</td>
<td>Critical Analysis of Curriculum in Science Education</td>
<td>W2</td>
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<td>Tue</td>
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<td>EDCP_V 556-032</td>
<td>Theory and Research in the Social Context of School Science</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Mon</td>
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<td>EDCP_V 558-031</td>
<td>Science Learning in Informal Environments</td>
<td>W1</td>
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<td>EDCP_V 559-031</td>
<td>Research in the Teaching and Learning of the Sciences</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Thu</td>
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<td>Research in the Teaching and Learning of the Sciences</td>
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<td>EDCP_V 562-031</td>
<td>Curriculum Issues and Theories</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDCP_V 562-032</td>
<td>Curriculum Issues and Theories</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue</td>
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<td>Curriculum Issues and Theories</td>
<td>W1</td>
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<td>Curriculum Issues and Theories</td>
<td>W1</td>
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<td>EDCP_V 562-62A</td>
<td>Curriculum Issues and Theories</td>
<td>W2</td>
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<td>Curriculum Issues and Theories</td>
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<td>EDCP_V 564-62A</td>
<td>Texts, Politics, and Ideologies of Curriculum Development</td>
<td>W2</td>
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<tr>
<td>EDCP_V 566-62A</td>
<td>Curriculum Change, Planning, and Implementation</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDCP_V 566-61A</td>
<td>Curriculum Change, Planning, and Implementation</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>EDCP_V 568-031</td>
<td>Curriculum in their Historical Context</td>
<td>W1</td>
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<td>EDCP_V 571-032</td>
<td>History of Media and Technology in Education</td>
<td>W2</td>
<td>Online Learning</td>
<td>Tue</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDCP_V 580-C_032</td>
<td>Problems in Education</td>
<td>W2</td>
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<td>Problems in Education</td>
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<td>EDCP_V 585-A_031</td>
<td>Special Course in Curriculum and Pedagogy</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>EDCP_V 585-B_61A</td>
<td>Special Course in Curriculum and Pedagogy</td>
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<td>EDCP_V 585-E_031</td>
<td>Special Course in Curriculum and Pedagogy</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>Special Course in Curriculum and Pedagogy</td>
<td>W1-2</td>
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<td>Graduating Paper</td>
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<td>EDCP_V 590-032</td>
<td>Graduating Paper</td>
<td>W2</td>
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<td>Graduating Paper</td>
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<td>EDCP_V 590-62A</td>
<td>Graduating Paper</td>
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<td>Field Experiences</td>
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<td>EDCP_V 599-C_031</td>
<td>Master's Thesis</td>
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<td>EDCP_V 599-C_032</td>
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<td>Master's Thesis</td>
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<td>EDCP_V 601-A_031</td>
<td>Doctoral Seminar in Curriculum and Pedagogy: History and Theory</td>
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<td>EDCP_V 602-A_032</td>
<td>Doctoral Seminar in Curriculum and Pedagogy: Conceptualizing Research</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.
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<td>Fri</td>
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<td>Wed</td>
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<td>Introduction to the Study of Higher Education</td>
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<td>EDST_V 403-03A</td>
<td>Introduction to the Study of Higher Education</td>
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<td>Research Traditions in Educational Administration</td>
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<td>Sat</td>
<td>9:00 a.m. - 4:00 p.m.</td>
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<td>EDST_V 509-021</td>
<td>Foundations of Adult Learning and Education</td>
<td>W1</td>
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<td>In Person Learning</td>
<td>Tue</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 509-A_021</td>
<td>History of Educational Policy</td>
<td>W1</td>
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<td>In Person Learning</td>
<td>Thu</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 509-D_022</td>
<td>Topics in the History of Education</td>
<td>W2</td>
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<td>In Person Learning</td>
<td>Tue</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>EDST_V 509-081</td>
<td>Constructing Citizens: Canada and the Educational Past</td>
<td>W1</td>
<td>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>
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<td>EDST_V 511-021</td>
<td>Organization and Administration of Higher Education</td>
<td>W2 Online Learning</td>
<td>Wed</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 512-022</td>
<td>Transitions and Access Across the Life Course</td>
<td>W2 In Person Learning</td>
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<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 513-022</td>
<td>Current Issues in Higher Education</td>
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<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 515-022</td>
<td>Survey Research Methods</td>
<td>W2 Online Learning</td>
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<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 518-022</td>
<td>Theory and Research on Adult Learning</td>
<td>W2 In Person Learning</td>
<td>Thu</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 521-021</td>
<td>Foundations of Higher Education</td>
<td>W1 Online Learning</td>
<td>Mon</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 523-A_021</td>
<td>Comparative Education</td>
<td>W1 Online Learning</td>
<td>Tue</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 523-B_61A</td>
<td>Comparative Education</td>
<td>W1 In Person Learning</td>
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<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 525-021</td>
<td>Program Evaluations in Adult and Community Education</td>
<td>W2 Online Learning</td>
<td>Arranged</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 527-022</td>
<td>Higher Education Policy: International and Comparative Perspectives</td>
<td>W2 Hybrid Learning</td>
<td>Thu</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 531-022</td>
<td>The Politics of Educational Governance</td>
<td>W2 In Person Learning</td>
<td>Mon</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 533-61A</td>
<td>Planning in Educational Organizations</td>
<td>W2 Online Learning</td>
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<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 534-021</td>
<td>Theory and Practice of Transformative Learning and Education</td>
<td>W1 In Person Learning</td>
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<td>EDST_V 535-022</td>
<td>Comparative and International Adult Education</td>
<td>W2 In Person Learning</td>
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<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 537-A_021</td>
<td>Locating Oneself in Global Learning</td>
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<td>W2 Online Learning</td>
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<td>EDST_V 540-A_021</td>
<td>Adult Learning: Contexts and Perspectives</td>
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<td>EDST_V 540-B_022</td>
<td>Adult Learning: Contexts and Perspectives</td>
<td>W2 Online Learning</td>
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<td>EDST_V 541-021</td>
<td>Understanding Research</td>
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<td>EDST_V 544-021</td>
<td>Global/Local Learning</td>
<td>W1 Online Learning</td>
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<td>EDST_V 545-021</td>
<td>Indigenous Inquiry and Research</td>
<td>W1 In Person Learning</td>
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<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 546-021</td>
<td>Indigenous Inquiry and Research</td>
<td>W1 In Person Learning</td>
<td>Fri (Alternate weeks)</td>
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<td>EDST_V 546-022</td>
<td>Indigenous Methodology and Epistemology</td>
<td>W2 In Person Learning</td>
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<td>Group Inquiry into Educational Practices</td>
<td>W2</td>
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<td>EDST_V 555-021</td>
<td>Educational Finance</td>
<td>W2</td>
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<td>EDST_V 558-021</td>
<td>Antiracism Education</td>
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<td>EDST_V 561-A_081</td>
<td>Practicum</td>
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<td>EDST_V 571-021</td>
<td>Educational Research: Relating Questions, Theory, and Methodology</td>
<td>W1</td>
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<td>EDST_V 575-021</td>
<td>Work and Learning</td>
<td>W2</td>
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<td>Wed 4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 575-082</td>
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<td>EDST_V 577-081</td>
<td>Social Contexts of Educational Policy and Practice</td>
<td>W1</td>
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<td>EDST_V 578-022</td>
<td>School Community Relations</td>
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<td>EDST_V 580-C_083</td>
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<td>EDST_V 581-022</td>
<td>Leadership, Administration, and the Aims of Education</td>
<td>W1</td>
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<td>Leadership, Administration, and the Aims of Education</td>
<td>W1</td>
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<td>EDST_V 582-022</td>
<td>The Study of Educational Organizations</td>
<td>W2</td>
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<td>EDST_V 582-02A</td>
<td>The Study of Educational Organizations</td>
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<td>In Person Learning</td>
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<td>EDST_V 585-022</td>
<td>Capstone: Society, Culture, and Politics in Education</td>
<td>W2</td>
<td>Online Learning</td>
<td>Wed 4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 588-022</td>
<td>Environmental Philosophy and Education</td>
<td>W2</td>
<td>Hybrid Learning</td>
<td>Tue 4:30 p.m. - 7:30 p.m.</td>
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<td>EDST_V 590-081</td>
<td>Graduating Paper</td>
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<td>EDST_V 590-61A</td>
<td>Indigenous Epistemology and Curriculum</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>EDST_V 551-021</td>
<td>Educational Theories: Equality, Democracy, and Justice</td>
<td>W1</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Men 4:30 p.m. - 7:10 p.m.</td>
</tr>
<tr>
<td>EDST_V 587-021</td>
<td>Educational Theories: Equality, Democracy, and Justice</td>
<td>W2</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu 4:30 p.m. - 7:10 p.m.</td>
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<tr>
<td>EDST_V 588-A_021</td>
<td>Field Experiences</td>
<td>W1</td>
<td>A, A_201</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>Hybrid Learning</td>
<td>Wed 4:30 p.m. - 7:10 p.m.</td>
</tr>
<tr>
<td>EDST_V 588-A_022</td>
<td>Field Experiences</td>
<td>W2</td>
<td>A, A_202</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>Hybrid Learning</td>
<td>Wed 4:30 p.m. - 7:10 p.m.</td>
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<tr>
<td>EDST_V 589-C_081</td>
<td>Master's Thesis</td>
<td>W1-2</td>
<td>C, C_081</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>EDST_V 589-C_082</td>
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<td>Master's Thesis</td>
<td>W2</td>
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<td>EDUC_V 140-177</td>
<td>Introduction to Indigenous Studies</td>
<td>W1</td>
<td>0.177</td>
<td>Pass/Fail.</td>
<td>In Person Learning</td>
<td>Thu 3:00 p.m. - 6:00 p.m.</td>
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<td>Introduction to Indigenous Studies</td>
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<td>EDUC_V 140-623</td>
<td>Introduction to Indigenous Studies</td>
<td>W1</td>
<td>0.623</td>
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<td>EDUC_V 140-624</td>
<td>Introduction to Indigenous Studies</td>
<td>W1</td>
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<td>5:00 p.m. - 7:00 p.m.</td>
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<td>EDUC_V 140-625</td>
<td>Introduction to Indigenous Studies</td>
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<td>EDUC_V 140-629</td>
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<td>EDUC_V 141-177</td>
<td>Indigenous Studies</td>
<td>W2</td>
<td>177</td>
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<td>Indigenous Education Seminar and Classroom Observation I</td>
<td>W1-2</td>
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<td>EDUC_V 210-001</td>
<td>Global Citizenship, Part 1: Introduction</td>
<td>W1</td>
<td>001</td>
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<td>12:30 p.m. - 2:00 p.m.</td>
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<td>EDUC_V 210-002</td>
<td>Global Citizenship, Part 1: Introduction</td>
<td>W1</td>
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<td>EDUC_V 210-003</td>
<td>Global Citizenship, Part 1: Introduction</td>
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<td>Global Citizenship, Part 1: Introduction</td>
<td>W1</td>
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<td>Global Citizenship, Part 1: Introduction</td>
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<td>EDUC_V 240-377</td>
<td>240</td>
<td>Issues in Indigenous Education</td>
<td>W2</td>
<td>[3-0]</td>
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<td>W2</td>
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<td>Issues in Indigenous Education</td>
<td>W1-2</td>
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<td>EDUC_V 244-277</td>
<td>244</td>
<td>Indigenous Education Seminar and Classroom Observation II</td>
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<td>EDUC_V 244-625</td>
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<td>Indigenous Education Seminar and Classroom Observation II</td>
<td>W1-2</td>
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<td>School-based Orientation Practicum</td>
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<td>School-based Extended Practicum: Elementary</td>
<td>W2</td>
<td>Pass/Fail</td>
<td>0.50</td>
<td>In Person Learning Arranged</td>
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<tr>
<td>EDUC_V 418-D_108</td>
<td>School-based Extended Practicum: Elementary</td>
<td>W2</td>
<td>Pass/Fail</td>
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<td>In Person Learning Arranged</td>
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<td>EDUC_V 418-D_109</td>
<td>School-based Extended Practicum: Elementary</td>
<td>W2</td>
<td>Pass/Fail</td>
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<td>EDUC_V 418-D_401</td>
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<td>W2</td>
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<td>EDUC_V 418-D_110</td>
<td>School-based Extended Practicum: Elementary</td>
<td>W2</td>
<td>Pass/Fail</td>
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<td>EDUC_V 419-D_215</td>
<td>School-based Extended Practicum: Middle Years</td>
<td>W2</td>
<td>Pass/Fail</td>
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<tr>
<td>EDUC_V 421-D_21S</td>
<td>School-based Extended Practicum: Secondary</td>
<td>W1</td>
<td>Pass/Fail</td>
<td>0.50</td>
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<td>EDUC_V 421-D_301</td>
<td>School-based Extended Practicum: Secondary</td>
<td>W2</td>
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<td>EDUC_V 421-D_640</td>
<td>School-based Extended Practicum: Secondary</td>
<td>W2</td>
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<td>EDUC_V 421-D_S21</td>
<td>School-based Extended Practicum: Secondary</td>
<td>W1</td>
<td>Pass/Fail</td>
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<tr>
<td>EDUC_V 430-21S</td>
<td>Community-based Field Experience</td>
<td>W1</td>
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<td>0.50</td>
<td>In Person Learning Tue 4:00 p.m. - 8:00 p.m.</td>
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<td>EDUC_V 440-A_301</td>
<td>Indigenous Education in Canada</td>
<td>W2</td>
<td>Pass/Fail</td>
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<td>In Person Learning Tue 4:00 p.m. - 8:00 p.m.</td>
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<td>EDUC_V 440-A_302</td>
<td>Indigenous Education in Canada</td>
<td>W2</td>
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<td>In Person Learning Tue 4:00 p.m. - 8:00 p.m.</td>
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<td>EDUC_V 440-A_303</td>
<td>Indigenous Education in Canada</td>
<td>W2</td>
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<td>In Person Learning Tue 4:00 p.m. - 8:00 p.m.</td>
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<td>EDUC_V 440-A_304</td>
<td>Indigenous Education in Canada</td>
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<td>Indigenous Education in Canada</td>
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<td>Indigenous Education in Canada</td>
<td>W2</td>
<td>Pass/Fail</td>
<td>0.50</td>
<td>In Person Learning Tue 4:00 p.m. - 8:00 p.m.</td>
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<td>In Person Learning Tue 4:00 p.m. - 8:00 p.m.</td>
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<td>Indigenous Education in Canada</td>
<td>W2</td>
<td>Pass/Fail</td>
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<td>In Person Learning Tue 4:00 p.m. - 8:00 p.m.</td>
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<td>Indigenous Education in Canada</td>
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<td>In Person Learning Tue 4:00 p.m. - 8:00 p.m.</td>
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<td>EDUC_V 440-C_101</td>
<td>Indigenous Education in Canada</td>
<td>W1</td>
<td>Pass/Fail</td>
<td>0.50</td>
<td>In Person Learning Mon 4:00 p.m. - 7:30 p.m.</td>
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<td>EDUC_V 440-C_102</td>
<td>Indigenous Education in Canada</td>
<td>W1</td>
<td>Pass/Fail</td>
<td>0.50</td>
<td>In Person Learning Mon 4:30 p.m. - 8:00 p.m.</td>
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<td>EDUC_V 440-C_103</td>
<td>Indigenous Education in Canada</td>
<td>W1</td>
<td>Pass/Fail</td>
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<td>In Person Learning Mon 4:30 p.m. - 8:00 p.m.</td>
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<td>Course Code</td>
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<td>W1</td>
<td>Grading Option</td>
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<td>EDUC_V 440-C_104</td>
<td>Indigenous Education in Canada</td>
<td>Pass/Fail</td>
<td>8:30 a.m. - 12:00 p.m.</td>
<td>Mon</td>
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<td>EDUC_V 440-C_105</td>
<td>Indigenous Education in Canada</td>
<td>Pass/Fail</td>
<td>8:30 a.m. - 12:00 p.m.</td>
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<td>EDUC_V 440-C_107</td>
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<td>Pass/Fail</td>
<td>1:00 p.m. - 4:30 p.m.</td>
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<td>1:00 p.m. - 4:30 p.m.</td>
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<td>EDUC_V 440-C_110</td>
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<td>EDUC_V 440-C_640</td>
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<td>EDUC_V 449-A_001</td>
<td>Supervised Research Investigation</td>
<td>Available only to outstanding students approved by the Associate Dean (Teacher Education)</td>
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<td>EDUC_V 449-B_002</td>
<td>Supervised Research Investigation</td>
<td>Available only to outstanding students approved by the Associate Dean (Teacher Education)</td>
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<td>EDUC_V 449-C_003</td>
<td>Supervised Research Investigation</td>
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<td>EDUC_V 450-A_101</td>
<td>Inquiry Seminar I</td>
<td>Pass/Fail</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>Tue</td>
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<td>EDUC_V 450-A_102</td>
<td>Inquiry Seminar I</td>
<td>Pass/Fail</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>Fri</td>
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<td>EDUC_V 450-A_103</td>
<td>Inquiry Seminar I</td>
<td>Pass/Fail</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>Fri</td>
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<td>EDUC_V 450-A_104</td>
<td>Inquiry Seminar I</td>
<td>Pass/Fail</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>Fri</td>
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<td>EDUC_V 450-A_105</td>
<td>Inquiry Seminar I</td>
<td>Pass/Fail</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>Wed</td>
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<td>EDUC_V 450-A_107</td>
<td>Inquiry Seminar I</td>
<td>Pass/Fail</td>
<td>10:00 a.m. - 12:30 p.m.</td>
<td>Fri</td>
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<td>EDUC_V 450-A_108</td>
<td>Inquiry Seminar I</td>
<td>Pass/Fail</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>Tue</td>
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<td>EDUC_V 450-A_109</td>
<td>Inquiry Seminar I</td>
<td>Pass/Fail</td>
<td>8:00 a.m. - 12:00 p.m.</td>
<td>Fri</td>
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<td>EDUC_V 450-A_110</td>
<td>Inquiry Seminar I</td>
<td>Pass/Fail</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>Fri</td>
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<td>Inquiry Seminar I</td>
<td>Pass/Fail</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<td>Pass/Fail</td>
<td>10:00 a.m. - 12:30 p.m.</td>
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<td>Course Code</td>
<td>Section</td>
<td>Time</td>
<td>Days</td>
<td>Location</td>
<td>Instructor</td>
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<td>EDUC_V 450-A_114</td>
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<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>A_117</td>
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<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<td>EDUC_V 450-A_118</td>
<td>A</td>
<td>A_118</td>
<td>Inquiry Seminar I</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>EDUC_V 450-A_120</td>
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<td>W1</td>
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<tr>
<td>EDUC_V 450-A_640</td>
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<td>Inquiry Seminar I</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>EDUC_V 450-A_641</td>
<td>A</td>
<td>A_641</td>
<td>Inquiry Seminar I</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>EDUC_V 450-B_305</td>
<td>B</td>
<td>B_305</td>
<td>Inquiry Seminar I</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>EDUC_V 450-B_306</td>
<td>B</td>
<td>B_306</td>
<td>Inquiry Seminar I</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>EDUC_V 450-B_307</td>
<td>B</td>
<td>B_307</td>
<td>Inquiry Seminar I</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>EDUC_V 450-B_308</td>
<td>B</td>
<td>B_308</td>
<td>Inquiry Seminar I</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>EDUC_V 450-B_309</td>
<td>B</td>
<td>B_309</td>
<td>Inquiry Seminar I</td>
<td>W1</td>
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<tr>
<td>EDUC_V 450-B_311</td>
<td>B</td>
<td>B_311</td>
<td>Inquiry Seminar I</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>EDUC_V 450-B_312</td>
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<td>Inquiry Seminar I</td>
<td>W1</td>
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<td>EDUC_V 450-B_320</td>
<td>B</td>
<td>B_320</td>
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<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>EDUC_V 450-B_640</td>
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<td>Inquiry Seminar I</td>
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<td>EDUC_V 450-B_641</td>
<td>B</td>
<td>B_641</td>
<td>Inquiry Seminar I</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>EDUC_V 450-B_514</td>
<td>B</td>
<td>B_514</td>
<td>Inquiry Seminar I</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>EDUC_V 450-B_517</td>
<td>B</td>
<td>B_517</td>
<td>Inquiry Seminar I</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>EDUC_V 450-B_518</td>
<td>B</td>
<td>B_518</td>
<td>Inquiry Seminar I</td>
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<td>EDUC_V 450-B_519</td>
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<td>B_519</td>
<td>Inquiry Seminar I</td>
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<td>EDUC_V 450-B_521</td>
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<td>B_521</td>
<td>Inquiry Seminar I</td>
<td>W1</td>
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<td>In Person Learning</td>
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<td>Course Code</td>
<td>Section</td>
<td>Days</td>
<td>Time</td>
<td>Type</td>
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<td>Notes</td>
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<td>EDUC_V 450-B_S22</td>
<td>450-B_S22</td>
<td>W1</td>
<td>Thu 8:30 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>EDUC_V 450-B_S23</td>
<td>450-B_S23</td>
<td>W1</td>
<td>Thu 8:30 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>EDUC_V 450-B_S24</td>
<td>450-B_S24</td>
<td>W1</td>
<td>Thu 12:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>EDUC_V 451-A_101</td>
<td>451-A_101</td>
<td>W2</td>
<td>Tue 8:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.</td>
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<tr>
<td>EDUC_V 451-A_102</td>
<td>451-A_102</td>
<td>W2</td>
<td>Tue 10:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.</td>
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<tr>
<td>EDUC_V 451-A_103</td>
<td>451-A_103</td>
<td>W2</td>
<td>Fri 10:30 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.</td>
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<tr>
<td>EDUC_V 451-A_104</td>
<td>451-A_104</td>
<td>W2</td>
<td>Tue 2:00 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.</td>
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<td>EDUC_V 451-A_105</td>
<td>451-A_105</td>
<td>W2</td>
<td>Wed 10:30 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.</td>
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<tr>
<td>EDUC_V 451-A_107</td>
<td>451-A_107</td>
<td>W2</td>
<td>Fri 10:30 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EDUC 450.</td>
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Topics not covered in a course. A pilot course may be offered under this name for only one year and with permission of the Associate Dean (Teacher Education).
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<td>EDUC_V 500-03A</td>
<td>3</td>
<td>Research Methodology in Education</td>
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</table>

Credit/D/Fail grading. 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.

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<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Title</th>
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<td>EDUC_V 500-61B</td>
<td>500</td>
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<td>5:00 p.m. - 6:30 p.m.</td>
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<td>Overview of methodological approaches to research in education. This course is not eligible for Credit/D/Fail grading.</td>
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<td>EECE_V 501-101</td>
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<tr>
<td>EECE_V 561-101</td>
<td>561</td>
<td>Networking and Network Security</td>
<td>1</td>
<td>Mon Tue Thu</td>
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<td>EECE_V 562-101</td>
<td>562</td>
<td>Network Security and Systems Engineering</td>
<td>1</td>
<td>Mon Tue Thu</td>
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<td>563</td>
<td>Network Security and Systems Engineering</td>
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<td>564</td>
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<td>568</td>
<td>Network Security and Systems Engineering</td>
<td>1</td>
<td>Mon Tue Thu</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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</table>
Computational and mathematical methods for data driven processing and model-based analysis of digital images and other visual data: perception, capture; representation, modeling; enhancement, restoration; registration, fusion; feature extraction, segmentation, recognition; practical applications. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Mon Wed Fri

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

Electrical Engineering Seminar and Special Problems

Arranged

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

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

Electrical Engineering Seminar and Special Problems

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<tr>
<td>EECE_V 507</td>
<td>Circuit Analysis I</td>
<td>-</td>
<td>3.0</td>
<td>In Person Learning</td>
<td>Fri (Alternate weeks)</td>
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<td>3.0</td>
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**Course Descriptions:**

Circuit Analysis I:
The fundamentals of analysis of lumped linear time-invariant circuits; network theorems; operational amplifiers; first order circuits; DC analysis of diodes, BJT, and FET circuits.

Phasor analysis and AC three phase systems power; transfer functions; Bode plots; filters and resonances; Laplace transforms; transformers and mutual inductance; two-port networks. First and second order circuits. This course is not eligible for Credit/D/Fail grading. [4-0-1] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256, MATH 265.

Phasor analysis and AC three phase systems power; transfer functions; Bode plots; filters and resonances; Laplace transforms; transformers and mutual inductance; two-port networks. First and second order circuits. This course is not eligible for Credit/D/Fail grading. [4-0-1] Prerequisite: MATH 101 and one of PHYS 108, PHYS 118, PHYS 158. Corequisite: One of MATH 255, MATH 256, MATH 265.
ELEC V 220-201  ELEC V 201 221 Signals and Systems W2 Complex numbers, LTI systems, convolution sum, discrete-time Fourier series and transforms, z-transform, sampling, introduction to filtering and modulation, feedback systems, stability. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 256, MATH 255. In Person Learning Tue Thu 5:30 p.m. - 7:00 p.m.

ELEC V 220-21A  ELEC V 201 T3A Signals and Systems W1 Complex numbers, LTI systems, convolution sum, discrete-time Fourier series and transforms, z-transform, sampling, introduction to filtering and modulation, feedback systems, stability. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 256, MATH 255. In Person Learning Mon 5:30 p.m. - 7:30 p.m.

ELEC V 220-21A  ELEC V 201 T2A Signals and Systems W2 Complex numbers, LTI systems, convolution sum, discrete-time Fourier series and transforms, z-transform, sampling, introduction to filtering and modulation, feedback systems, stability. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of MATH 256, MATH 255. In Person Learning Fri 12:00 p.m. - 2:00 p.m.

ELEC V 270-201  ELEC V 201 271 Signals and Systems W1 Effective communication in a multi-disciplinary environment, introduction to emerging areas of biomedical engineering and biotechnology, ethics, and responsibility. Restricted to students admitted to the Biomedical Engineering program in Electrical Engineering. This course is not eligible for Credit/D/Fail grading. [1-0-0] Corequisite: ELEC 202. In Person Learning Tue 10:00 a.m. - 11:00 a.m.

ELEC V 281-201  ELEC V 201 281 201 Technical Communication W2 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 281, CPEN 281, BMEG 201 or APSC 201. 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 125, WRDS 150. In Person Learning Tue Thu 12:30 p.m. - 2:00 a.m.

ELEC V 281-202  ELEC V 201 281 202 Technical Communication W2 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 281, CPEN 281, BMEG 201 or APSC 201. 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 125, WRDS 150. In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.

ELEC V 281-210  ELEC V 201 281 203 Technical Communication W2 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 281, CPEN 281, BMEG 201 or APSC 201. 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 125, WRDS 150. In Person Learning Tue Thu 12:30 p.m. - 2:00 a.m.

ELEC V 281-204  ELEC V 201 281 204 Technical Communication W2 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 281, CPEN 281, BMEG 201 or APSC 201. 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 125, WRDS 150. In Person Learning Mon Wed Fri 11:00 a.m. - 12:00 p.m.

ELEC V 281-205  ELEC V 201 281 205 Technical Communication W2 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 281, CPEN 281, BMEG 201 or APSC 201. 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 125, WRDS 150. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

ELEC V 291-201  ELEC V 201 291 201 Electrical Engineering Design Studio I W2 Design projects involving electronic devices and circuits, electromagnetics, signals and systems, and microcomputers. This course is not eligible for Credit/D/Fail grading. [2-4-0] Prerequisite: All of ELEC 201, CPEN 201. In Person Learning Fri 2:00 p.m. - 4:00 p.m.

ELEC V 291-21A  ELEC V 201 291 12A Electrical Engineering Design Studio I W2 Design projects involving electronic devices and circuits, electromagnetics, signals and systems, and microcomputers. This course is not eligible for Credit/D/Fail grading. [2-4-0] Prerequisite: All of ELEC 201, CPEN 201. In Person Learning Tue Thu 1:00 p.m. - 4:00 p.m.

ELEC V 291-21A  ELEC V 201 291 120 Electrical Engineering Design Studio I W2 Design projects involving electronic devices and circuits, electromagnetics, signals and systems, microcomputers with applications in biomedical engineering. Final group project requiring oral presentation of student prepared slides. This course is not eligible for Credit/D/Fail grading. [2-4-0] Prerequisite: All of ELEC 201, CPEN 201. In Person Learning Tue Thu 8:00 a.m. - 11:00 a.m.

ELEC V 292-201  ELEC V 201 292 201 Biomedical Engineering Design Studio W2 Design projects involving electronic devices and circuits, electromagnetics, signals and systems, microcomputers with applications in biomedical engineering. Final group project requiring oral presentation of student prepared slides. This course is not eligible for Credit/D/Fail grading. [2-4-0] Prerequisite: All of ELEC 201, CPEN 211, ELEC 221. In Person Learning Fri 2:00 p.m. - 4:00 p.m.

ELEC V 292-21A  ELEC V 201 292 12A Biomedical Engineering Design Studio W2 Design projects involving electronic devices and circuits, electromagnetics, signals and systems, microcomputers with applications in biomedical engineering. Final group project requiring oral presentation of student prepared slides. This course is not eligible for Credit/D/Fail grading. [2-4-0] Prerequisite: All of ELEC 201, CPEN 211, ELEC 221. In Person Learning Tue Thu 3:00 p.m. - 4:00 p.m.

ELEC V 380-R_001  ELEC V 301 300 R_001 Special Topics in Electrical Engineering W1-2 Lectures or projects on subjects of current interest. This course is not eligible for Credit/D/Fail grading. In Person Learning Fri 12:00 p.m. - 2:00 p.m.

ELEC V 381-101  ELEC V 301 301 301 Electronic Circuits W1 Analysis and design of electronic circuits; biasing of and small-signal models for transistors; frequency response of amplifiers; feedback and stability aspects of amplifier design; OP-AMPs; active filters; oscillators; IC specifications and selection. Credit will only be given for one of ELEC 301, ELEC 301L, and ELEC 301R. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: Either (a) one of ELEC 201, ELEC 200, ELEC 204, or ELEC 203; or (b) ELEC 201. In Person Learning Mon 3:30 p.m. - 4:30 p.m.

ELEC V 381-201  ELEC V 301 301 201 Electronic Circuits W2 Analysis and design of electronic circuits; biasing of and small-signal models for transistors; frequency response of amplifiers; feedback and stability aspects of amplifier design; OP-AMPs; active filters; oscillators; IC specifications and selection. Credit will only be given for one of ELEC 301, ELEC 301L, and ELEC 301R. This course is not eligible for Credit/D/Fail grading. [3-0-6] Prerequisite: Either (a) one of ELEC 201, ELEC 200, ELEC 204, or ELEC 203; or (b) ELEC 201. In Person Learning Mon Wed Fri 9:00 a.m. - 11:00 a.m.

ELEC V 382-201  ELEC V 301 303 201 Electronic Circuits for Electromechanical Design W2 Semiconductor fundamentals; modeling of electronic devices including diodes and transistors; design of power supplies, waveform generators and logic circuits; signals in time and frequency domains; operational amplifiers; active filters; oscillators; device specification and selection. This course is not eligible for Credit/D/Fail grading. [3-2-0] Prerequisite: One of ELEC 201, ELEC 203, ELEC 204, MECIN 221. In Person Learning Mon Fri 11:00 a.m. - 12:30 p.m.
ELEC 322-12A ELEC 302 L2A Electronic Circuits for Electromechanical Design W2
Semiconductor fundamentals; modeling of electronic devices including diodes and transistors; design of power supplies, waveform generation and logic circuits; signals in time and frequency domains; operational amplifiers; active filters; oscillators; device specification and selection. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of ELEC 203, ELEC 204, ELEC 206, MATH 221.
In Person Learning Men (Alternate weeks) 1:00 p.m. - 2:00 p.m.
ELEC 322-12B ELEC 302 L2B Electronic Circuits for Electromechanical Design W2
Semiconductor fundamentals; modeling of electronic devices including diodes and transistors; design of power supplies, waveform generation and logic circuits; signals in time and frequency domains; operational amplifiers; active filters; oscillators; device specification and selection. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of ELEC 203, ELEC 204, ELEC 206, MATH 221.
In Person Learning Tue (Alternate weeks) 3:00 p.m. - 4:00 p.m.
ELEC 322-12C ELEC 302 L2C Electronic Circuits for Electromechanical Design W2
Semiconductor fundamentals; modeling of electronic devices including diodes and transistors; design of power supplies, waveform generation and logic circuits; signals in time and frequency domains; operational amplifiers; active filters; oscillators; device specification and selection. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of ELEC 203, ELEC 204, ELEC 206, MATH 221.
In Person Learning Fri (Alternate weeks) 3:00 p.m. - 4:00 p.m.
ELEC 315-101 ELEC 311 301 Electromagnetic Fields and Waves W1
Waves and propagation; Maxwell's equations; applications including transmission lines, impedance matching and Smith charts; reflection and refraction; waveguides and antennas. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: ELEC 315 and one of MATH 101, MATH 263, MATH 265, MATH 267 or 3 of MATH 102, MATH 263, MATH 265, MATH 267 or 1 of MATH 102, MATH 263, MATH 265, MATH 267 or 1 of MATH 101, MATH 263, MATH 265, MATH 267.
In Person Learning Wed/Fri 11:00 a.m. - 1:00 p.m.
ELEC 315-201 ELEC 311 201 Electromagnetic Fields and Waves W2
Fundamental aspects of electronic materials such as: semiconductors, metals, dielectrics, piezoelectrics, magnetic materials, and their applications in devices such as diodes, transistors, and transducers. Recommended third-year standing in B.A.Sc. This course is not eligible for Credit/D/Fail grading. [4-0] Prerequisite: ELEC 315 and one of MATH 101, MATH 263, MATH 265, MATH 267 or 3 of MATH 102, MATH 263, MATH 265, MATH 267 or 1 of MATH 102, MATH 263, MATH 265, MATH 267 or 1 of MATH 101, MATH 263, MATH 265, MATH 267.
In Person Learning Tue Thu 3:00 p.m. - 5:00 p.m.
ELEC 325-101 ELEC 315 201 Electronic Materials and Devices W1
Fundamental aspects of electronic materials such as: semiconductors, metals, dielectrics, piezoelectrics, magnetic materials, and their applications in devices such as diodes, transistors, and transducers. Recommended third-year standing in B.A.Sc. This course is not eligible for Credit/D/Fail grading. [4-0] Prerequisite: ELEC 325.
In Person Learning Fri 11:00 a.m. - 1:00 p.m.
ELEC 325-201 ELEC 315 201 Electronic Materials and Devices W2
Analysis, design and implementation of computer networks and their protocols. Application layer protocols, transmission control protocol (TCP), internet protocol (IP), routing algorithms, reliable data transfer, multiple access, Ethernet. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of ELEC 221, CPEN 212, CPSC 261, CPSC 331.
In Person Learning Mon Wed 10:00 a.m. - 12:00 p.m.
ELEC 330-101 ELEC 330 301 Computer Communications W1
Analysis, design and implementation of computer networks and their protocols. Application layer protocols, transmission control protocol (TCP), internet protocol (IP), routing algorithms, reliable data transfer, multiple access, Internet. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of ELEC 221, CPEN 212, CPSC 261, CPSC 331.
In Person Learning Mon Wed Thu 1:00 p.m. - 3:30 p.m.
ELEC 330-201 ELEC 330 201 Computer Communications W2
Analysis, design and implementation of computer networks and their protocols. Application layer protocols, transmission control protocol (TCP), internet protocol (IP), routing algorithms, reliable data transfer, multiple access, Internet. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of ELEC 221, CPEN 212, CPSC 261, CPSC 331.
In Person Learning Tue Thu 1:30 p.m. - 3:00 p.m.
ELEC 330-21A ELEC 330 21A Computer Communications W1
Analysis, design and implementation of computer networks and their protocols. Application layer protocols, transmission control protocol (TCP), internet protocol (IP), routing algorithms, reliable data transfer, multiple access, Ethernet. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of ELEC 221, CPEN 212, CPSC 261, CPSC 331.
In Person Learning Mon Wed Fri 3:00 p.m. - 4:00 p.m.
ELEC 330-21B ELEC 330 21B Computer Communications W2
Analysis, design and implementation of computer networks and their protocols. Application layer protocols, transmission control protocol (TCP), internet protocol (IP), routing algorithms, reliable data transfer, multiple access, Ethernet. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of ELEC 221, CPEN 212, CPSC 261, CPSC 331.
In Person Learning Mon Wed Fri 3:00 p.m. - 4:00 p.m.
ELEC 341-101 ELEC 341 301 Systems and Control W1
Continuous time systems analysis by Laplace transforms; system modelling by transfer function and state space methods; feedback, stability and sensitivity; control design; frequency domain analysis. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of ELEC 202, ELEC 204.
In Person Learning Wed Fri 1:00 p.m. - 2:00 p.m.
ELEC 341-201 ELEC 341 201 Systems and Control W1
Continuous time systems analysis by Laplace transforms; system modelling by transfer function and state space methods; feedback, stability and sensitivity; control design; frequency domain analysis. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: One of ELEC 202, ELEC 204.
In Person Learning Mon Wed Fri 10:00 a.m. - 12:00 a.m.
ELEC 341-202 ELEC 341 202 Electro-Mechanical Energy Conversion and Transmission W1
Three-phase power; transformers and harmonic; 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 one of ELEC 342, ELEC 343, ELEC 346. This course is not eligible for Credit/D/Fail grading. [3-0-2] Prerequisite: All of PHYS 170, ELEC 202.
In Person Learning Fri 12:30 p.m. - 2:00 p.m.
Electromechanics (ELEC 342) 8:30 a.m. - 11:30 a.m. Wed (Alternate weeks)

Electro-Mechanical Energy Conversion and Transmission

11:00 a.m. - 2:00 p.m. Thu (Alternate weeks)

In Person Learning

Electro-Mechanical Energy Conversion and Transmission

12:00 p.m. - 2:00 p.m. Fri (Alternate weeks)

In Person Learning

Three phase power; transformers and busses; 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. (3-5*-2*) Prerequisite: All of PHYS 170, ELEC 202.

In Person Learning Fri (Alternate weeks) 9:00 a.m. - 12:00 p.m.

Three phase power; transformers and busses; 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. (3-5*-2*) Prerequisite: All of PHYS 170, ELEC 202.

In Person Learning Fri (Alternate weeks) 2:00 p.m. - 5:00 p.m.

Three phase power; transformers and busses; 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. (3-5*-2*) Prerequisite: All of PHYS 170, ELEC 202.

In Person Learning Thu (Alternate weeks) 9:00 a.m. - 12:00 p.m.

Three phase power; transformers and busses; 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. (3-5*-2*) Prerequisite: All of PHYS 170, ELEC 202.

In Person Learning Wed (Alternate weeks) 11:00 a.m. - 2:00 p.m.

Three phase power; transformers and busses; 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. (3-5*-2*) Prerequisite: All of PHYS 170, ELEC 202.

In Person Learning Fri (Alternate weeks) 10:00 a.m. - 1:00 p.m.

Three phase power; transformers and busses; 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. (3-5*-2*) Prerequisite: All of PHYS 170, ELEC 202.

In Person Learning Thu (Alternate weeks) 3:00 p.m. - 4:00 p.m.

Three phase power; transformers and busses; 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. (3-5*-2*) Prerequisite: All of PHYS 170, ELEC 202.

In Person Learning Fri (Alternate weeks) 8:30 a.m. - 11:30 a.m.

Three phase power; transformers and busses; 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. (3-5*-2*) Prerequisite: All of PHYS 170, ELEC 202.

In Person Learning Thu (Alternate weeks) 5:30 p.m. - 7:30 p.m.

Three phase power; transformers and busses; 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. (3-5*-2*) Prerequisite: All of PHYS 170, ELEC 202.

In Person Learning Fri (Alternate weeks) 12:00 p.m. - 2:00 p.m.

Electromechanical energy conversion; linear actuators; torque/speed of rotating devices; reluctance, stepper, permanent magnet, induction, brushless DC motors, and DC motors; actuator/motor drive circuits/controls. Credit will be granted for only one of ELEC 345, ELEC 346, ELEC 347. This course is not eligible for Credit/D/Fail grading. (3-3*-2*) Prerequisite: All of PHYS 170, ELEC 202.

In Person Learning Tue (Alternate weeks) 3:00 p.m. - 5:00 p.m.

Electromechanical energy conversion; linear actuators; torque/speed of rotating devices; reluctance, stepper, permanent magnet, induction, brushless DC motors, and DC motors; actuator/motor drive circuits/controls. Credit will be granted for only one of ELEC 345, ELEC 346, ELEC 347. This course is not eligible for Credit/D/Fail grading. (3-3*-2*) Prerequisite: All of PHYS 170, ELEC 202.

In Person Learning Wed (Alternate weeks) 3:00 p.m. - 5:00 p.m.

Electromechanical energy conversion; linear actuators; torque/speed of rotating devices; reluctance, stepper, permanent magnet, induction, brushless DC motors, and DC motors; actuator/motor drive circuits/controls. Credit will be granted for only one of ELEC 345, ELEC 346, ELEC 347. This course is not eligible for Credit/D/Fail grading. (3-3*-2*) Prerequisite: All of PHYS 170, ELEC 202.

In Person Learning Thu (Alternate weeks) 10:00 a.m. - 12:00 p.m.
### Applied Electronics and Electromechanics

**Course:** Biomedical Engineering Instrumentation

**Credit:** 3-0-2

**Prerequisite:** All of ELEC 202, ELEC 342.

**Description:** Theory and experiments involving instruments for general, orthopedic, cardiac and minimally invasive surgery as well as sensors for respiration, cardiac, hematologic and various system measurements. Restricted to students admitted to the Biomedical Engineering option in Electrical Engineering and the Biomedical Engineering program. This course is cross-listed with BMED 321. Credit will be given for one of ELEC 371 or BMED 321. This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisite: All of ELEC 202, ELEC 292 or (b) all of ELEC 344. 

<table>
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<th>Days</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>ELEC_V 371-201</td>
<td>Tue Thu</td>
<td>101</td>
<td>Biomedical Engineering Instrumentation</td>
</tr>
</tbody>
</table>

**In Person Learning**

### In Person Learning

**Course:** Applied Electronics and Electromechanics

**Credit:** 2-2*-2*

**Prerequisite:** One of ELEC 201, ELEC 203, ELEC 204, MECH 221.

**Description:** 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. (2-2*-2*) Prerequisite: One of ELEC 202, ELEC 203, ELEC 204, MECH 221. 

<table>
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<tr>
<td>ELEC_V 344-201</td>
<td>Tue Thu</td>
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<td>Applied Electronics and Electromechanics</td>
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</table>

**In Person Learning**

### In Person Learning

**Course:** Applied Electronics and Electromechanics

**Credit:** 2-2*-2*

**Prerequisite:** One of ELEC 201, ELEC 203, ELEC 204, MECH 221.

**Description:** 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. (2-2*-2*) Prerequisite: One of ELEC 202, ELEC 203, ELEC 204, MECH 221. 

<table>
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<td>ELEC_V 344-12C</td>
<td>Tue Thu</td>
<td>12C</td>
<td>Applied Electronics and Electromechanics</td>
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</table>

**In Person Learning**

### In Person Learning

**Course:** Applied Electronics and Electromechanics

**Credit:** 2-2*-2*

**Prerequisite:** One of ELEC 201, ELEC 203, ELEC 204, MECH 221.

**Description:** 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. (2-2*-2*) Prerequisite: One of ELEC 202, ELEC 203, ELEC 204, MECH 221. 

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<td>Thu</td>
<td>12F</td>
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</table>

**In Person Learning**

### In Person Learning

**Course:** Applied Electronics and Electromechanics

**Credit:** 2-2*-2*

**Prerequisite:** One of ELEC 201, ELEC 203, ELEC 204, MECH 221.

**Description:** 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. (2-2*-2*) Prerequisite: One of ELEC 202, ELEC 203, ELEC 204, MECH 221. 

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<td>ELEC_V 344-T1A</td>
<td>Thu</td>
<td>1A</td>
<td>Applied Electronics and Electromechanics</td>
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</table>

**In Person Learning**

### In Person Learning

**Course:** Applied Electronics and Electromechanics

**Credit:** 2-2*-2*

**Prerequisite:** One of ELEC 201, ELEC 203, ELEC 204, MECH 221.

**Description:** 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. (2-2*-2*) Prerequisite: One of ELEC 202, ELEC 203, ELEC 204, MECH 221. 

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<tr>
<td>ELEC_V 344-T2A</td>
<td>Fri</td>
<td>2A</td>
<td>Applied Electronics and Electromechanics</td>
</tr>
</tbody>
</table>

**In Person Learning**

### In Person Learning
Theory and experiments involving instruments for general, orthopedic, cardiac and minimally invasive surgery as well as sensors for respiratory, cardiac, lidocaine and changing system measurements. Restricted to students admitted to the Biomedical Engineering option in Electrical Engineering and the Biomedical Engineering program. This course is cross-listed with BMEG 311.

Credit will be given for one of ELEC 371 or BMEG 311. This course is not eligible for Credit/D/Fail grading. (3-0-0) Prerequisites: Either (a) all of MATH 261, MATH 262 or (b) MATH 261, and either (b) all of ELEC 202, ELEC 202 or (c) all of MATH 220, MATH 221, Biomedical: BMEG 101.

Dr. Zhang

In Person Learning

Tue Thu

W2

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

421

Analog CMOS Integrated Circuit Design

In Person Learning

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

Semiconductor Lasers

Advanced Digital VLSI Systems

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

Electrical Engineering Design Studio II

W2

201

L2B

In Person Learning

T1A

4:00 p.m. - 6:00 p.m.

RF Integrated Circuits

L2A

4:50 p.m. - 7:00 p.m.

Biomedical Engineering Instrumentation

Topics in Electrical Engineering

Mon Wed Fri

W1

400

N

N_101

Lecture or project on subjects of current interest. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

Arranged

Design and analysis of analog integrated circuits, with emphasis on CMOS design techniques. Gate stages, opamp design, frequency compensation, oscillators, A/D, D/A converters, PSpice. This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisites: One of ELEC 301, ELEC 341.

In Person Learning

Wed

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

Analog CMOS Integrated Circuit Design

Introduction to VLSI Systems

W1

422

301

Static CMOS circuit architecture; layout and design. Memory element (flip-flop and latch) design. Dynamic logic families. Synchronous logic and timing analysis. Power, scaling, and industry trends. Verification, VHDL/Verilog design, layout and synthesis projects using CAD tools. This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisites: ELEC 401.

In Person Learning

Tue Thu

5:30 p.m. - 7:00 p.m.

RF Integrated Circuits

Introduction to VLSI Systems

W1

422

301

Static CMOS circuit architecture; layout and design. Memory element (flip-flop and latch) design. Dynamic logic families. Synchronous logic and timing analysis. Power, scaling, and industry trends. Verification, VHDL/Verilog design, layout and synthesis projects using CAD tools. This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisites: ELEC 401.

In Person Learning

Fri

4:00 p.m. - 6:00 p.m.

Analog CMOS Integrated Circuit Design

Abnormal Digital VLSI Systems

W1

403

301

Logical design, noise in digital systems. Low-power techniques. Power distribution. CMOS and BiCMOS design. Non-volatile memory technologies. High-speed ICs, multiplexer and decoder design. Clock trees. Synchronization and test. Scaling, and design trends. High-speed circuit design and layout projects. This course is not eligible for Credit/D/Fail grading. (3-0-3) Prerequisites: ELEC 402.

In Person Learning

Tue Thu

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

RF Integrated Circuits

RF Integrated Circuits

W1

404

T4A

Introduction to radio-frequency (RF) communication systems; matching networks, transceiver architectures, low noise amplifiers, mixers, oscillators, etc. This course is not eligible for Credit/D/Fail grading. (3-0-1) Prerequisites: One of ELEC 401, ELEC 402.

In Person Learning

Mon Wed

6:30 p.m. - 8:00 p.m.

Introduction to radio-frequency (RF) communication systems; matching networks, transceiver architectures, low noise amplifiers, mixers, oscillators, etc. This course is not eligible for Credit/D/Fail grading. (3-0-1) Prerequisites: ELEC 401, Corequisite: ELEC 401.

In Person Learning

Fri

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

Antennas and Propagation

Plasmonic devices, waveguides, single mode optical fibers, integrated optics waveguides and devices, resonators; transfer matrix methods; optical communications links. This course is not eligible for Credit/D/Fail grading. (3-0-1)

In Person Learning

Mon Wed Fri

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

Plasmonic devices, waveguides, single mode optical fibers, integrated optics waveguides and devices, resonators; transfer matrix methods; optical communications links. This course is not eligible for Credit/D/Fail grading. (3-0-1)

In Person Learning

Mon Wed Fri

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

Plasmonic devices, waveguides, single mode optical fibers, integrated optics waveguides and devices, resonators; transfer matrix methods; optical communications links. This course is not eligible for Credit/D/Fail grading. (3-0-1)

In Person Learning

Arranged

Arranged

An introduction to lasers and applications. Theory, modeling, fabrication and performance of semiconductor lasers. Optical communications links. This course is not eligible for Credit/D/Fail grading. (3-0-0)

In Person Learning

Mon

4:30 p.m. - 6:00 p.m.

Semiconductor Lasers

Semiconductor Devices: Physics, Design and Analysis

W2

413

201

Semiconductor Devices: Physics, Design and Analysis

W2

415

201

Physics of operation, and design and analysis of semiconductor devices of topical interest, e.g., solar cells, LEDs, high-speed MODFETs, high-frequency MOSFETs, low-noise HEMTs. This course is not eligible for Credit/D/Fail grading. (3-0-2) Prerequisites: One of ELEC 315, PHYS 304.

In Person Learning

Tue Thu

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

Digital Signal and Image Processing

Digital Signal and Image Processing

W1

421

T1A

Digital Signal and Image Processing

W1

421

T1A

DSP fundamentals, image processing, signal representation, digital filtering, statistical estimation, DSP applications. This course is not eligible for Credit/D/Fail grading. (2-0-2) Prerequisites: ELEC 221.

In Person Learning

Thu

9:00 a.m. - 10:00 a.m.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Schedule</th>
<th>Grading</th>
<th>Notes</th>
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<tr>
<td>ELEC_V 422-201</td>
<td>Power Electronics I</td>
<td>3</td>
<td>Tue Thu</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>eligible for Credit/D/Fail grading. Prerequisite: All of ELEC 275, ELEC 241, ELEC 231 and one of CPEC 280, CPEC 290 and one of STAT 251, MATH 318, MATH 410, STAT 301. In Person Learning Mon Wed. 12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>ELEC_V 431-101</td>
<td>Communication Systems I</td>
<td>3</td>
<td>W1</td>
<td>Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
<td>Review of probability theory, signals and noise; digital communication over Gaussian noise channels, optimal receiver design, modulation techniques and error performance calculations; measure of information, source coding, symbol and stream codes; channel coding, capacity, simple linear block codes; practical applications. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: ELEC 225 and one of ELEC 322, MATH 318, MATH 216, STAT 251, STAT 252, STAT 257. In Person Learning Tue Thu. 12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>ELEC_V 431-201</td>
<td>Communication Systems II</td>
<td>3</td>
<td>W2</td>
<td>Mon Wed. 11:00 a.m. - 1:00 p.m.</td>
<td>Review of probability theory, signals and noise; digital communication over Gaussian noise channels, optimal receiver design, modulation techniques and error performance calculations; measure of information, source coding, symbol and stream codes; channel coding, capacity, simple linear block codes; practical applications. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: ELEC 225 and one of ELEC 322, MATH 318, MATH 216, STAT 251, STAT 252, STAT 257. In Person Learning Tue Thu. 12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>ELEC_V 433-201</td>
<td>Error Control Coding for Communications and Computers</td>
<td>3-0-0</td>
<td>W2</td>
<td>Mon Wed. 11:00 a.m. - 1:00 p.m.</td>
<td>Design techniques, including: decoding, block codes; convolutional codes, and decoding algorithms. Implementation of decoding algorithms. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of ELEC 301, ELEC 344, ELEC 342. In Person Learning Tue Thu. 11:00 a.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>ELEC_V 441-201</td>
<td>Control Systems</td>
<td>3</td>
<td>W1</td>
<td>Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
<td>Common-mode and common-impedance configurations, actuator and sensor technology. Efficient representations and computational methods for real-time microprocessor-based implementation of robot control algorithms. Robotic control methods, network equivalents, impedance control. Introduction to teleoperation implementation aspects. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: PHYS 170. In Person Learning Mon Wed. 12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>ELEC_V 442-101</td>
<td>Introduction to Robotics</td>
<td>3</td>
<td>W1</td>
<td>Mon Wed. 11:00 a.m. - 1:00 p.m.</td>
<td>Common-mode and common-impedance configurations, actuator and sensor technology. Efficient representations and computational methods for real-time microprocessor-based implementation of robot control algorithms. Robotic control methods, network equivalents, impedance control. Introduction to teleoperation implementation aspects. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: PHYS 170. In Person Learning Mon Wed. 12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>ELEC_V 451-101</td>
<td>Power Electronics I</td>
<td>3</td>
<td>W1</td>
<td>Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
<td>Power diodes, transistors and IGFETs, analysis of idealized circuits with generalized loads; AC, DC, DC-DC, DC-AC, AC converters, modulation techniques, gating circuits; practical design and applications. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ELEC 301, ELEC 344, ELEC 342. In Person Learning Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>ELEC_V 451-201</td>
<td>Power Electronics II</td>
<td>3</td>
<td>W1</td>
<td>Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
<td>Power diodes, transistors and IGFETs, analysis of idealized circuits with generalized loads; AC, DC, DC-DC, DC-AC, AC converters, modulation techniques, gating circuits; practical design and applications. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ELEC 301, ELEC 344, ELEC 342. In Person Learning Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>ELEC_V 451-41A</td>
<td>Power Electronics IV</td>
<td>3</td>
<td>W1</td>
<td>Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
<td>Power diodes, transistors and IGFETs, analysis of idealized circuits with generalized loads; AC, DC, DC-DC, DC-AC, AC converters, modulation techniques, gating circuits; practical design and applications. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ELEC 301, ELEC 344, ELEC 342. In Person Learning Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ELEC_V 451-41B</td>
<td>Power Electronics IV</td>
<td>3</td>
<td>W1</td>
<td>Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
<td>Power diodes, transistors and IGFETs, analysis of idealized circuits with generalized loads; AC, DC, DC-DC, DC-AC, AC converters, modulation techniques, gating circuits; practical design and applications. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ELEC 301, ELEC 344, ELEC 342. In Person Learning Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ELEC_V 451-42A</td>
<td>Power Electronics IV</td>
<td>3</td>
<td>W1</td>
<td>Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
<td>Power diodes, transistors and IGFETs, analysis of idealized circuits with generalized loads; AC, DC, DC-DC, DC-AC, AC converters, modulation techniques, gating circuits; practical design and applications. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ELEC 301, ELEC 344, ELEC 342. In Person Learning Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>ELEC_V 451-42B</td>
<td>Power Electronics IV</td>
<td>3</td>
<td>W1</td>
<td>Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
<td>Power diodes, transistors and IGFETs, analysis of idealized circuits with generalized loads; AC, DC, DC-DC, DC-AC, AC converters, modulation techniques, gating circuits; practical design and applications. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of ELEC 301, ELEC 344, ELEC 342. In Person Learning Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ELEC_V 453-101</td>
<td>Power System Analysis</td>
<td>3</td>
<td>W1</td>
<td>Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
<td>Transmission and distribution: phase, complex power; balanced/unbalanced three-phase operation; symmetrical components, sequence networks; voltage regulation; short-circuit capacity; circuit breakers; transmission lines, series/short impedance; short, medium, and long line models. This course is not eligible for Credit/D/Fail grading. Prerequisite: ELEC 342. In Person Learning Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ELEC_V 453-41A</td>
<td>Power System Analysis</td>
<td>3</td>
<td>W1</td>
<td>Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
<td>Transmission and distribution: phase, complex power; balanced/unbalanced three-phase operation; symmetrical components, sequence networks; voltage regulation; short-circuit capacity; circuit breakers; transmission lines, series/short impedance; short, medium, and long line models. This course is not eligible for Credit/D/Fail grading. Prerequisite: ELEC 342. In Person Learning Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ELEC_V 454-201</td>
<td>Power System Analysis II</td>
<td>3</td>
<td>W2</td>
<td>Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
<td>Power system monitoring/control, large networks; automatic generation control, optimal power flow calculations; traveling wave transmission lines; EMTP and MATLAB programs for transients, short circuits, and transient stability analysis. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: ELEC 451. In Person Learning Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ELEC_V 454-42A</td>
<td>Power System Analysis II</td>
<td>3</td>
<td>W2</td>
<td>Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
<td>Power system monitoring/control, large networks; automatic generation control, optimal power flow calculations; traveling wave transmission lines; EMTP and MATLAB programs for transients, short circuits, and transient stability analysis. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: ELEC 451. In Person Learning Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ELEC_V 455-101</td>
<td>Power Systems Protection</td>
<td>3</td>
<td>W1</td>
<td>Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
<td>Analysis of disturbances, security of power systems, cascading and blackouts; role and impact of protection, transducers and measuring elements; protection of transmission and distribution systems; protection of generation, substations equipment, special protection systems and relays. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: ELEC 453. ELEC 452. In Person Learning Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>ELEC_V 455-201</td>
<td>Decision Support Methods in Power Systems Operation</td>
<td>3</td>
<td>W2</td>
<td>Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
<td>Principles: acceptable regions of operation, energy management systems; load flow methods; static and dynamic security; contingency analysis; transient and voltage stability; online stability assessments. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: ELEC 453. In Person Learning Mon Wed. 12:00 p.m. - 3:00 p.m.</td>
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<td>Course Code</td>
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<td>Lecture Type</td>
<td>Time</td>
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<tr>
<td>ELEC 457-1SA</td>
<td>Optimization of Power System Operations</td>
<td>W1</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td></td>
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<tr>
<td>ELEC 461-101</td>
<td>Nanotechnology in Electronics</td>
<td>W1</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td></td>
<td></td>
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<tr>
<td>ELEC 463-101</td>
<td>Micro/Nanofabrication and Instrumentation Laboratory</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td></td>
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<tr>
<td>ELEC 463-LIA</td>
<td>Micro/Nanofabrication and Instrumentation Laboratory</td>
<td>W1</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td></td>
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<tr>
<td>ELEC 463-LIB</td>
<td>Micro/Nanofabrication and Instrumentation Laboratory</td>
<td>W1</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>ELEC 463-LIC</td>
<td>Micro/Nanofabrication and Instrumentation Laboratory</td>
<td>W1</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td></td>
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<tr>
<td>ELEC 471-102</td>
<td>Medical Imaging</td>
<td>W1</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td></td>
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<tr>
<td>ELEC 473-101</td>
<td>Biological Micro-Electro-Mechanical Systems</td>
<td>W1</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td></td>
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<tr>
<td>ELEC 481-101</td>
<td>Economic Analysis of Engineering Projects</td>
<td>W1</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>ELEC 481-201</td>
<td>Economic Analysis of Engineering Projects</td>
<td>W2</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>ELEC 491-C_001</td>
<td>Electrical Engineering Capstone Design Project</td>
<td>W1-2</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td></td>
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<tr>
<td>ELEC 491-C_201</td>
<td>Electrical Engineering Capstone Design Project</td>
<td>W2</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>ELEC 491-C_46</td>
<td>Electrical Engineering Capstone Design Project</td>
<td>W1-2</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<td>ELEC 491-C_CDD</td>
<td>Electrical Engineering Capstone Design Project</td>
<td>W1</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>ELEC 491-C_ECD</td>
<td>Electrical Engineering Capstone Design Project</td>
<td>W1-2</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>ELEC 491-C_HAD</td>
<td>Electrical Engineering Capstone Design Project</td>
<td>W1</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>ELEC 491-C_JEE</td>
<td>Electrical Engineering Capstone Design Project</td>
<td>W1-2</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>ELEC 491-C_JEE</td>
<td>Electrical Engineering Capstone Design Project</td>
<td>W1</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td></td>
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<tr>
<td>ELEC 491-C_JEE</td>
<td>Electrical Engineering Capstone Design Project</td>
<td>W1-2</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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</table>

ELEC 491-C_001: Microfabrication methods and nanofabrication techniques. Imaging and characterization of micro and nanostructures. Recommended Prerequisite: ELEC 335. This course is not eligible for Credit/D/Fail grading. [3-0-0] or [2-6-0] Prerequisite: ELEC 391.

ELEC 491-C_201: Design, analysis, and implementation of solutions in response to a real-world electrical engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0] or [2-3-0] Prerequisite: ELEC 391.

ELEC 491-C_46: Design, analysis, and implementation of solutions in response to a real-world electrical engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0] or [2-3-0] Prerequisite: ELEC 391.

ELEC 491-C_CDD: Time-series relationships, economic analysis of alternatives including the effects of interest rate, inflation, depreciation, taxation and uncertainty, cost estimation and budgeting, financial analysis of engineering operations. This course is not eligible for Credit/D/Fail grading. [3-0-0] or [2-6-0] Prerequisite: ELEC 391.

ELEC 491-C_ECD: The mechanisms, design, fabrication, and testing of microsensors, actuators, and microelectromechanical systems (MEMS). This course is not eligible for Credit/D/Fail grading. [3-0-0] or [2-3-0] Prerequisite: ELEC 391.

ELEC 491-C_HAD: Design, analysis, and implementation of solutions in response to a real-world electrical engineering problem, provided by industry, research laboratories, or other suitable entities. Includes coverage of topics such as project management. This course is not eligible for Credit/D/Fail grading. [2-6-0] or [2-3-0] Prerequisite: ELEC 391.

ELEC 491-C_JEE: Microfabrication methods and nanofabrication techniques. Imaging and characterization of micro and nanostructures. Recommended Prerequisite: ELEC 335. This course is not eligible for Credit/D/Fail grading. [3-0-0] or [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 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.
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Directed research experience. Communication of research ideas. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [2-6-0] or [2-6-0] Prerequisite: ELEC 391.

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Directed research experience. Communication of research ideas. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [2-6-0] or [2-6-0] Prerequisite: ELEC 391.
9:00 a.m. - 10:00 a.m.  
Tue Thu  
W1  
101  
In Person Learning  
Medical Imaging  
542  
Arranged  
507-101  
Advanced Biophotonics  
W1-2  
Arranged  
Arranged

10:00 a.m. - 11:00 a.m.  
Tue Thu  
W1  
101  
In Person Learning  
Computational Quantum Methods for the Nanoscale  
499  
This course is not eligible for Credit/D/Fail grading.  

11:00 a.m. - 12:30 p.m.  
Tue Thu  
W1  
101  
In Person Learning  
Self-Tuning Control  
582  
This course is not eligible for Credit/D/Fail grading.  

12:30 p.m. - 2:00 p.m.  
In Person Learning  
W2  
In Person Learning  
Analog Integrated Circuit Design  
501  
This course is not eligible for Credit/D/Fail grading.  

2:00 p.m. - 3:30 p.m.  
Wed  
502  
In Person Learning  
Integrated Circuits for Phase-Locked Loops  
525  
This course is not eligible for Credit/D/Fail grading.  

3:30 p.m. - 5:00 p.m.  
Tue Thu  
W2  
In Person Learning  
Advanced Topics in Very-Large-Scale Integration (VLSI) Design  
101  
This course is not eligible for Credit/D/Fail grading.  

5:00 p.m. - 6:30 p.m.  
Fri  
W2  
In Person Learning  
Green Nanoelectronic Devices  
499  
This course is not eligible for Credit/D/Fail grading.  

6:30 p.m. - 8:00 p.m.  
In Person Learning  
B_102  
In Person Learning  
Computational Quantum Methods for the Nanoscale  
543  
This course is not eligible for Credit/D/Fail grading.  

8:00 p.m. - 10:00 p.m.  
In Person Learning  
B_202  
In Person Learning  
Computational Quantum Methods for the Nanoscale  
546  
This course is not eligible for Credit/D/Fail grading.  

This course is not eligible for Credit/D/Fail grading.
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<th>Title</th>
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<th>Times</th>
<th>In Person Learning</th>
<th>Notes</th>
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<tr>
<td>ENGL 100-002</td>
<td>Reading and Writing about Language and Literatures</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ENGL 100-003</td>
<td>Reading and Writing about Language and Literatures</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>ENGL 100-002</td>
<td>Reading and Writing about Language and Literatures</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<td>ENGL 100-004</td>
<td>Reading and Writing about Language and Literatures</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<td>ENGL 100-005</td>
<td>Reading and Writing about Language and Literatures</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<td>11:00 a.m. - 12:00 p.m.</td>
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<td>ENGL 100-006</td>
<td>Reading and Writing about Language and Literatures</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<td>ENGL 100-007</td>
<td>Reading and Writing about Language and Literatures</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<td>ENGL 100-008</td>
<td>Reading and Writing about Language and Literatures</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<td>ENGL 100-009</td>
<td>Reading and Writing about Language and Literatures</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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**Grading:**

This course is not eligible for Credit/D/Fail grading.
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<th>Section</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Description</th>
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<tbody>
<tr>
<td>ENG_V 100-010</td>
<td>ENG_V</td>
<td>Mon Wed</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td>LA2</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>
</tr>
<tr>
<td>ENG_V 100-021</td>
<td>ENG_V</td>
<td>Mon Wed</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>LA1</td>
<td>Approaches to Literature and Culture</td>
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<tr>
<td>ENG_V 100-022</td>
<td>ENG_V</td>
<td>Mon Wed</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td>LA3</td>
<td>Approaches to Literature and Culture</td>
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<tr>
<td>ENG_V 110-001</td>
<td>ENG_V</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>014</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>
</tr>
<tr>
<td>ENG_V 110-002</td>
<td>ENG_V</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>012</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>
</tr>
<tr>
<td>ENG_V 110-003</td>
<td>ENG_V</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>011</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>
</tr>
<tr>
<td>ENG_V 110-004</td>
<td>ENG_V</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>010</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>
</tr>
<tr>
<td>ENG_V 110-005</td>
<td>ENG_V</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>007</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>
</tr>
<tr>
<td>ENG_V 110-006</td>
<td>ENG_V</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>005</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>
</tr>
<tr>
<td>ENG_V 110-007</td>
<td>ENG_V</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>004</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>
</tr>
<tr>
<td>ENG_V 110-008</td>
<td>ENG_V</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>002</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>
</tr>
<tr>
<td>ENG_V 110-009</td>
<td>ENG_V</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>013</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>
</tr>
<tr>
<td>ENG_V 110-010</td>
<td>ENG_V</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>014</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>
</tr>
<tr>
<td>ENG_V 110-011</td>
<td>ENG_V</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>012</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>
</tr>
<tr>
<td>ENG_V 110-012</td>
<td>ENG_V</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>011</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>
</tr>
<tr>
<td>ENG_V 110-013</td>
<td>ENG_V</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>010</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>
</tr>
<tr>
<td>ENG_V 110-014</td>
<td>ENG_V</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>007</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>
</tr>
<tr>
<td>ENG_V 110-LA1</td>
<td>ENG_V</td>
<td>Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>001</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>
</tr>
<tr>
<td>ENG_V 110-LA2</td>
<td>ENG_V</td>
<td>Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>002</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>
</tr>
<tr>
<td>ENG_V 110-LA3</td>
<td>ENG_V</td>
<td>Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>002</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>
</tr>
<tr>
<td>Time</td>
<td>Day</td>
<td>Code</td>
<td>Title</td>
<td>Location</td>
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<tr>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>Fri</td>
<td>110</td>
<td>Approaches to Literature and Culture</td>
<td>In Person Learning</td>
<td></td>
</tr>
<tr>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>Fri</td>
<td>110</td>
<td>Approaches to Literature and Culture</td>
<td>In Person Learning</td>
<td></td>
</tr>
<tr>
<td>2:00 p.m. - 3:00 p.m.</td>
<td></td>
<td>110</td>
<td>Approaches to Literature and Culture</td>
<td>In Person Learning</td>
<td></td>
</tr>
</tbody>
</table>

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.

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.
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

Fri 1:00 p.m. - 2:00 p.m.
ENGL_V 110-136 ENGL_V 110 156 Approaches to Literature and Culture W2 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 Fri 1:00 p.m. - 2:00 p.m.

ENGL_V 110-171 ENGL_V 110 171 Approaches to Literature and Culture W2 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 Fri 2:00 p.m. - 3:00 p.m.

ENGL_V 110-172 ENGL_V 110 172 Approaches to Literature and Culture W2 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 Fri 3:00 p.m. - 4:00 p.m.

ENGL_V 110-173 ENGL_V 110 173 Approaches to Literature and Culture W2 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 Fri 4:00 p.m. - 5:00 p.m.

ENGL_V 110-174 ENGL_V 110 174 Approaches to Literature and Culture W2 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 Fri 5:00 p.m. - 6:00 p.m.

ENGL_V 110-175 Approaches to Literature and Culture W2 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 Fri 6:00 p.m. - 7:00 p.m.

ENGL_V 110-176 Approaches to Literature and Culture W2 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 Fri 7:00 p.m. - 8:00 p.m.

ENGL_V 110-177 Approaches to Literature and Culture W2 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 Fri 8:00 p.m. - 9:00 p.m.

ENGL_V 110-178 Approaches to Literature and Culture W2 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 Fri 9:00 p.m. - 10:00 p.m.

ENGL_V 110-179 Approaches to Literature and Culture W2 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 Fri 10:00 p.m. - 11:00 p.m.

ENGL_V 111-001 Approaches to Language and Communication W1 Study of selected communication genres from a language-based perspective: examples may include non-fiction, science writing, business discourse, journalism, and language of the internet, podcasts, and other media. Essays are required. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed 11:00 a.m. - 12:00 p.m.

ENGL_V 111-002 Approaches to Language and Communication W1 Study of selected communication genres from a language-based perspective: examples may include non-fiction, science writing, business discourse, journalism, and language of the internet, podcasts, and other media. Essays are required. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue 11:00 a.m. - 12:00 p.m.

ENGL_V 111-003 Approaches to Language and Communication W1 Study of selected communication genres from a language-based perspective: examples may include non-fiction, science writing, business discourse, journalism, and language of the internet, podcasts, and other media. Essays are required. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed 1:00 p.m. - 2:00 p.m.

ENGL_V 111-105 Approaches to Language and Communication W1 Study of selected communication genres from a language-based perspective: examples may include non-fiction, science writing, business discourse, journalism, and language of the internet, podcasts, and other media. Essays are required. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed 2:00 p.m. - 3:00 p.m.

ENGL_V 111-106 Approaches to Language and Communication W1 Study of selected communication genres from a language-based perspective: examples may include non-fiction, science writing, business discourse, journalism, and language of the internet, podcasts, and other media. Essays are required. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed 3:00 p.m. - 4:00 p.m.

ENGL_V 111-107 Approaches to Language and Communication W1 Study of selected communication genres from a language-based perspective: examples may include non-fiction, science writing, business discourse, journalism, and language of the internet, podcasts, and other media. Essays are required. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed 4:00 p.m. - 5:00 p.m.

ENGL_V 111-108 Approaches to Language and Communication W1 Study of selected communication genres from a language-based perspective: examples may include non-fiction, science writing, business discourse, journalism, and language of the internet, podcasts, and other media. Essays are required. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed 5:00 p.m. - 6:00 p.m.

ENGL_V 111-109 Approaches to Language and Communication W1 Study of selected communication genres from a language-based perspective: examples may include non-fiction, science writing, business discourse, journalism, and language of the internet, podcasts, and other media. Essays are required. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed 6:00 p.m. - 7:00 p.m.

ENGL_V 111-110 Approaches to Language and Communication W1 Study of selected communication genres from a language-based perspective: examples may include non-fiction, science writing, business discourse, journalism, and language of the internet, podcasts, and other media. Essays are required. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed 7:00 p.m. - 8:00 p.m.

ENGL_V 111-111 Approaches to Language and Communication W1 Study of selected communication genres from a language-based perspective: examples may include non-fiction, science writing, business discourse, journalism, and language of the internet, podcasts, and other media. Essays are required. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed 8:00 p.m. - 9:00 p.m.

Critical consideration of a broad range of community 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 graduation requirement in the Faculty of Arts Credit will be granted for only one of ENGL 140 or LING 140. This course is not eligible for Credit/D/Fail grading. Equivalency: LING440

ENGL_V 140-001 ENGL_V 140 001 Challenging Language Myths W1 In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Course Name</th>
<th>Schedule</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL_V 200-001</td>
<td>2</td>
<td>Principles of Literary Studies</td>
<td>Mon Wed Fri</td>
<td>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 3:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>ENGL_V 200-002</td>
<td>2</td>
<td>Principles of Literary Studies</td>
<td>Mon Wed Fri</td>
<td>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 3:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>ENGL_V 200-003</td>
<td>2</td>
<td>Principles of Literary Studies</td>
<td>Mon Wed Fri</td>
<td>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 3:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>ENGL_V 200-004</td>
<td>2</td>
<td>Principles of Literary Studies</td>
<td>Mon Wed Fri</td>
<td>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 3:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>ENGL_V 200-005</td>
<td>2</td>
<td>Principles of Literary Studies</td>
<td>Mon Wed Fri</td>
<td>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.</td>
</tr>
<tr>
<td>ENGL_V 200-006</td>
<td>2</td>
<td>Principles of Literary Studies</td>
<td>Mon Wed Fri</td>
<td>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.</td>
</tr>
<tr>
<td>ENGL_V 200-007</td>
<td>2</td>
<td>Principles of Literary Studies</td>
<td>Mon Wed Fri</td>
<td>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.</td>
</tr>
<tr>
<td>ENGL_V 200-008</td>
<td>2</td>
<td>Principles of Literary Studies</td>
<td>Mon Wed Fri</td>
<td>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.</td>
</tr>
<tr>
<td>ENGL_V 200-009</td>
<td>2</td>
<td>Principles of Literary Studies</td>
<td>Mon Wed Fri</td>
<td>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.</td>
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<tr>
<td>ENGL_V 200-010</td>
<td>2</td>
<td>Principles of Literary Studies</td>
<td>Mon Wed Fri</td>
<td>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.</td>
</tr>
<tr>
<td>ENGL_V 200-011</td>
<td>2</td>
<td>Principles of Literary Studies</td>
<td>Mon Wed Fri</td>
<td>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.</td>
</tr>
<tr>
<td>ENGL_V 200-012</td>
<td>2</td>
<td>Principles of Literary Studies</td>
<td>Mon Wed Fri</td>
<td>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.</td>
</tr>
<tr>
<td>ENGL_V 210-001</td>
<td>1</td>
<td>An Introduction to English Honours</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>ENGL_V 220-001</td>
<td>2</td>
<td>Literature in English to the 18th Century</td>
<td>Mon Wed Fri</td>
<td>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. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ENGL_V 220-002</td>
<td>2</td>
<td>Literature in English to the 18th Century</td>
<td>Mon Wed Fri</td>
<td>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. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ENGL_V 220-003</td>
<td>2</td>
<td>Literature in Britain: the 18th Century to the Present</td>
<td>Mon Wed Fri</td>
<td>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 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ENGL_V 222-001</td>
<td>2</td>
<td>Literature in Canada</td>
<td>Mon Wed Fri</td>
<td>The major types of Canadian writing: fiction, poetry, non-fictional prose, and drama. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. In Person Learning Mon Wed Fri 1:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>ENGL_V 222-002</td>
<td>2</td>
<td>Literature in Canada</td>
<td>Mon Wed Fri</td>
<td>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.</td>
</tr>
<tr>
<td>ENGL_V 223-002</td>
<td>2</td>
<td>Literature in the United States</td>
<td>Mon Wed Fri</td>
<td>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.</td>
</tr>
<tr>
<td>ENGL_V 224-001</td>
<td>2</td>
<td>World Literature in English</td>
<td>Mon Wed Fri</td>
<td>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.</td>
</tr>
<tr>
<td>ENGL_V 225-001</td>
<td>2</td>
<td>Prose Fiction</td>
<td>Mon Wed Fri</td>
<td>Principles, methods, and resources for reading poetry. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. In Person Learning Mon Wed Fri 3:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>ENGL_V 225-002</td>
<td>2</td>
<td>Prose Fiction</td>
<td>Mon Wed Fri</td>
<td>Principles, methods, and resources for reading poetry. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>ENGL_V 227-003</td>
<td>2</td>
<td>Prose Fiction</td>
<td>Mon Wed Fri</td>
<td>Principles, methods, and resources for reading poetry. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended. In Person Learning Mon Wed Fri 11:00 a.m. - 12:00 p.m.</td>
</tr>
</tbody>
</table>
In Person Learning

Introduction to Children's and Young Adult Literature

Literary Nonfiction
2:00 p.m. - 3:00 p.m.
232

In Person Learning

Topics in the Study of Language and/or Rhetoric
W1

In Person Learning

Topics in Literary and/or Cultural Studies
W2

In Person Learning

Introduction to Children's and Young Adult Literature

In Person Learning

Speculative Fiction

In Person Learning

Arranged

Mon Wed Fri

In Person Learning

Introduction to Indigenous Literatures

In Person Learning

Approaches to Media Studies

In Person Learning

Shakespeare Now

In Person Learning

Environment and Literature

In Person Learning

Approaches to Media Studies

In Person Learning

Environment and Literature

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Environment and Literature
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.

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. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

Analysis of theoretical methods and critical approaches practiced in the discipline of English studies. Required of all students in the English major. 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. This course is not eligible for Credit/D/Fail grading.

Study of the principles of written communication in general business and professional activities, and practice in the preparation of abstracts, proposals, reports, and correspondence. Not for credit towards the English major or minor. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

Exploration of the persuasive dimension of discourse practice in science, technology, and medicine. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

Introduction to classical rhetoric with attention to the analysis of present-day texts. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

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.

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.

Principles of language change and language typology. The development and spread of the English language from the Norman Conquest to the Modern English period. Prerequisite: Knowledge of the International Phonetic Alphabet (for ENGL 310, ENGL 330 or the equivalent). Recommended: ENGL 310.

Description approaches to the English language. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

Application of linguistic theory and method to stylistic analysis. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

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.

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.

Exploitation of the concepts underlying figurative language (in vocabulary as well as in grammar), using data from both colloquial and literary language. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

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.

Application of linguistic theory and method to stylistic analysis. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

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An introduction to 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.

Descriptive approaches to the English language. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

Descriptive approaches to the English language. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Schedule</th>
<th>Discussion</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 333-A_001</td>
<td>History of the Book</td>
<td>3</td>
<td>Tue Thu 10:00 a.m. - 11:00 a.m.</td>
<td>W1</td>
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<tr>
<td>ENGL 342-A_001</td>
<td>Old English Vocabulary and Transliteration</td>
<td>3</td>
<td>Tue Thu</td>
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<tr>
<td>ENGL 343-A_001</td>
<td>Anglo-Saxon and Early Medieval Literature</td>
<td>3</td>
<td>Tue Thu</td>
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<tr>
<td>ENGL 344-A_001</td>
<td>Introduction to Old English</td>
<td>3</td>
<td>Mon Wed Fri 11:00 a.m. - 12:30 p.m.</td>
<td>W1</td>
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<tr>
<td>ENGL 346-A_001</td>
<td>Middle English Literature</td>
<td>3</td>
<td>Mon Wed Fri 12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>ENGL 347-A_001</td>
<td>Renaissance Literature</td>
<td>3</td>
<td>Tue Thu</td>
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<td>ENGL 348-A_001</td>
<td>Shakespeare</td>
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<tr>
<td>ENGL 349-A_001</td>
<td>Seventeenth-Century Literature</td>
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<td>ENGL 350-A_001</td>
<td>Milton</td>
<td>3</td>
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<tr>
<td>ENGL 355-A_001</td>
<td>Restoration and Eighteenth-Century Literature</td>
<td>3</td>
<td>Tue Thu</td>
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<tr>
<td>ENGL 356-A_001</td>
<td>Victorian Period Literature</td>
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<td>Tue Thu</td>
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<td>ENGL 360-A_001</td>
<td>Early Canadian Writing</td>
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<td>Tue Thu</td>
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<tr>
<td>ENGL 364-A_001</td>
<td>Nineteenth-Century Literature</td>
<td>3</td>
<td>Tue Thu</td>
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</tbody>
</table>

Note: Credit will be granted for up to 6 credits of ENGL 351 and/or 357. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.
Theories of corporeality and embodied thought. For ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

- "In Person Learning" Monday, Wednesday, and Friday from 11:00 a.m. to 12:30 p.m.
- "Online Learning" Tuesday, Thursday from 9:00 a.m. to 11:00 a.m.
- "Arranged" Tuesday, Thursday from 12:30 p.m. to 2:00 p.m.

- "In Person Learning" Tuesday, Thursday from 10:00 a.m. to 11:00 a.m.
- "Arranged" Tuesday, Thursday from 10:00 a.m. to 11:00 a.m.

- "In Person Learning" Monday, Wednesday, and Friday from 11:00 a.m. to 12:00 p.m.
- "Online Learning" Tuesday, Thursday from 1:00 p.m. to 3:00 p.m.
- "Arranged" Tuesday, Thursday from 1:00 p.m. to 3:00 p.m.

- "In Person Learning" Monday, Wednesday, and Friday from 10:00 a.m. to 11:00 a.m.
- "Online Learning" Tuesday, Thursday from 10:00 a.m. to 11:00 a.m.
- "Arranged" Tuesday, Thursday from 10:00 a.m. to 11:00 a.m.

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- "Online Learning" Tuesday, Thursday from 10:00 a.m. to 12:00 p.m.
- "Arranged" Tuesday, Thursday from 10:00 a.m. to 12:00 p.m.

- "In Person Learning" Monday, Wednesday, and Friday from 11:00 a.m. to 12:00 p.m.
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- "Arranged" Tuesday, Thursday from 11:00 a.m. to 12:00 p.m.

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- "Arranged" Tuesday, Thursday from 11:00 a.m. to 12:00 p.m.
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<tr>
<th>Course Code</th>
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<th>Time</th>
<th>Instructor</th>
<th>Description</th>
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<tr>
<td>ENGL_V 393-A_001</td>
<td>ENGL_V 393-A_001</td>
<td>Wed</td>
<td>8:00 a.m. - 8:30 a.m.</td>
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<tr>
<td>ENGL_V 489-B_003</td>
<td>ENGL_V 489-B_003</td>
<td>Wed</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>B_002</td>
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<td>ENGL_V 490-A_001</td>
<td>ENGL_V 490-A_001</td>
<td>Wed</td>
<td>12:00 p.m. - 2:00 p.m.</td>
<td>A_001</td>
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<td>ENGL_V 490-A_002</td>
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<td>ENGL_V 490-A_004</td>
<td>ENGL_V 490-A_004</td>
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<td>1:00 p.m. - 4:00 p.m.</td>
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<td>ENGL_V 490-A_005</td>
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<td>ENGL_V 490-C_001</td>
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<td>12:00 p.m. - 2:00 p.m.</td>
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<td>ENGL_V 490-D_001</td>
<td>ENGL_V 490-D_001</td>
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<td>1:00 p.m. - 4:00 p.m.</td>
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<td>ENGL_V 490-D_002</td>
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<td>ENGL_V 501-A_001</td>
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<td>Wed</td>
<td>1:00 p.m. - 4:00 p.m.</td>
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<td>ENGL_V 501-A_002</td>
<td>ENGL_V 501-A_002</td>
<td>Wed</td>
<td>12:00 p.m. - 2:00 p.m.</td>
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<td>ENGL_V 502-A_001</td>
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<td>12:00 p.m. - 2:00 p.m.</td>
<td>A_001</td>
<td>In Person Learning</td>
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</table>

**Course Descriptions:**

**Ecocriticism:**

Ecocriticism and the environmental humanities encompassing more specific methodologies, such as queer ecology, ecofeminist, postcolonial, decentering, and transnational environmentalisms, environmental art, and ENGL courses at the 200- or 300-level, prior completion of at least one 100-level ENGL course is recommended.

**Research in English Studies:**

Required of all graduate students in the M.A. program. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**Senior Honours Seminar:**

Required of all Honours Students. Restricted to English Honours students in third-year or higher. See Department website (www.english.ubc.ca) for seminar topics. This course is not eligible for Credit/D/Fail grading.

**Honours Essay:**

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

**Studies in Bibliography:**

This course is not eligible for Credit/D/Fail grading.
<table>
<thead>
<tr>
<th>Code</th>
<th>Section</th>
<th>Type</th>
<th>Title</th>
<th>Days</th>
<th>Start Time</th>
<th>End Time</th>
<th>Location</th>
<th>Instructor</th>
<th>Room</th>
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<tr>
<td>ENGL_Y 507</td>
<td>A</td>
<td>A_001</td>
<td>Studies in English Historical Linguistics</td>
<td>W2</td>
<td>9:30 a.m.</td>
<td>12:30 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>507</td>
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<tr>
<td>ENGL_Y 507</td>
<td>A</td>
<td>A_001</td>
<td>Directed Reading</td>
<td>W1</td>
<td>9:00 a.m.</td>
<td>12:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>507</td>
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<tr>
<td>ENGL_Y 509</td>
<td>A</td>
<td>A_001</td>
<td>Studies in Renaissance</td>
<td>W1</td>
<td>3:30 p.m.</td>
<td>6:30 p.m.</td>
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<tr>
<td>ENGL_Y 514</td>
<td>A</td>
<td>A_001</td>
<td>Studies in the Eighteenth Century</td>
<td>W1</td>
<td>9:30 a.m.</td>
<td>12:30 p.m.</td>
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<tr>
<td>ENGL_Y 514</td>
<td>A</td>
<td>A_001</td>
<td>Studies in the Victorian Period</td>
<td>W1</td>
<td>9:30 a.m.</td>
<td>12:30 p.m.</td>
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<tr>
<td>ENGL_Y 519</td>
<td>A</td>
<td>A_001</td>
<td>Studies in the Twentieth-Century</td>
<td>W1</td>
<td>9:30 a.m.</td>
<td>12:30 p.m.</td>
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<tr>
<td>ENGL_Y 519</td>
<td>B</td>
<td>B_002</td>
<td>Studies in the Twentieth-Century</td>
<td>W2</td>
<td>9:00 a.m.</td>
<td>12:00 p.m.</td>
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<tr>
<td>ENGL_Y 541</td>
<td>A</td>
<td>A_001</td>
<td>Studies in American Literature Since 1880</td>
<td>W1</td>
<td>9:00 a.m.</td>
<td>12:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
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<tr>
<td>ENGL_Y 545</td>
<td>A</td>
<td>A_001</td>
<td>Studies in Canadian Literature</td>
<td>W2</td>
<td>9:00 a.m.</td>
<td>12:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>545</td>
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<tr>
<td>ENGL_Y 546</td>
<td>A</td>
<td>A_001</td>
<td>Studies in Commonwealth/Post-colonial Literatures</td>
<td>W1</td>
<td>9:00 a.m.</td>
<td>12:00 p.m.</td>
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<td>Directed Reading</td>
<td>W1</td>
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<tr>
<td>ENGL_Y 549</td>
<td>A</td>
<td>A_001</td>
<td>Master's Thesis</td>
<td>W1</td>
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<td>ENGL_Y 549</td>
<td>A</td>
<td>A_002</td>
<td>Master's Thesis</td>
<td>W1</td>
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<tr>
<td>ENGL_Y 549</td>
<td>A</td>
<td>A_003</td>
<td>Master's Thesis</td>
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<tr>
<td>ENGL_Y 551</td>
<td>A</td>
<td>A_001</td>
<td>Studies in Literary Movements</td>
<td>W1</td>
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<td>ENGL_Y 553</td>
<td>A</td>
<td>A_001</td>
<td>Studies in Literary Theory</td>
<td>W1</td>
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<td>12:00 p.m.</td>
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<td>ENGL_Y 553</td>
<td>C</td>
<td>C_003</td>
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<td>W2</td>
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<td>12:00 p.m.</td>
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<td>A</td>
<td>A_001</td>
<td>Studies in Literature and the Other Arts</td>
<td>W2</td>
<td>9:00 a.m.</td>
<td>12:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>555</td>
</tr>
<tr>
<td>ENGL_Y 561</td>
<td>A</td>
<td>A_001</td>
<td>Topics in Science and Technology Studies</td>
<td>W1</td>
<td>9:00 a.m.</td>
<td>12:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>561</td>
</tr>
<tr>
<td>ENGL_Y 565</td>
<td>A</td>
<td>A_001</td>
<td>Studies in Environmental Humanities</td>
<td>W2</td>
<td>9:00 a.m.</td>
<td>12:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>565</td>
</tr>
</tbody>
</table>

This course is not eligible for Credit/D/Fail grading.
ENGL_V 649-001  
**Doc**toral **Dissertation**  
**VI**-2  
In Person Learning  
Arranged  
Arranged

ENGL_V 649-002  
**Doc**toral **Dissertation**  
**VI**  
In Person Learning  
Arranged  
Arranged

ENGL_V 649-003  
**Doc**toral **Dissertation**  
**VI**  
In Person Learning  
Arranged  
Arranged

ENPH_V 258-101  
**EXP**erimental **Techn**iques  
**WI**  
In Person Learning  
Thu  
2:00 p.m. - 3:00 p.m.

ENPH_V 258-11A  
**EXP**erimental **Techn**iques  
**WI**  
In Person Learning  
Wed  
2:00 p.m. - 5:00 p.m.

ENPH_V 258-11B  
**EXP**erimental **Techn**iques  
**WI**  
In Person Learning  
Mon  
11:00 a.m. - 2:00 p.m.

ENPH_V 258-11C  
**EXP**erimental **Techn**iques  
**WI**  
In Person Learning  
Fri  
3:30 p.m. - 12:00 p.m.

ENPH_V 352-11A  
**L**aboratory **Techn**iques in **Phys**ics  
**WI**  
In Person Learning  
Tue  
10:00 a.m. - 11:00 a.m.

ENPH_V 352-11B  
**L**aboratory **Techn**iques in **Phys**ics  
**WI**  
In Person Learning  
Thu  
3:30 p.m. - 4:30 p.m.

ENPH_V 352-11C  
**L**aboratory **Techn**iques in **Phys**ics  
**WI**  
In Person Learning  
Tue  
11:00 a.m. - 2:00 p.m.

ENPH_V 353-12D  
**L**aboratory **Techn**iques in **Phys**ics  
**WI**  
In Person Learning  
Tue  
2:00 p.m. - 5:00 p.m.

ENPH_V 353-11A  
**E**ngineering **Phys**ics **Proj**ect **I**  
**WI**  
In Person Learning  
Mon  
10:00 a.m. - 11:00 a.m.

ENPH_V 353-11B  
**E**ngineering **Phys**ics **Proj**ect **I**  
**WI**  
In Person Learning  
Tue  
11:00 a.m. - 2:00 p.m.

ENPH_V 353-12A  
**E**ngineering **Phys**ics **Proj**ect **I**  
**WI**  
In Person Learning  
Wed  
1:00 p.m. - 2:00 p.m.

ENPH_V 458-101  
**E**ngineering **Phys**ics **Proj**ect **II**  
**WI**-2  
In Person Learning  
Fri  
9:00 a.m. - 11:00 a.m.

ENPH_V 458-251  
**E**ngineering **Phys**ics **Proj**ect **II**  
**WI**-2  
In Person Learning  
Arranged  
Arranged

ENPH_V 479-101  
**E**ngineering **Phys**ics **Proj**ect **III**  
**WI**-2  
In Person Learning  
Mon  
12:00 p.m. - 1:00 p.m.

ENPH_V 479-301  
**E**ngineering **Phys**ics **Proj**ect **III**  
**WI**-2  
In Person Learning  
Arranged  
Arranged

ENPH_V 479-301  
**E**ngineering **Phys**ics **Proj**ect **III**  
**WI**-2  
In Person Learning  
Arranged  
Arranged

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This course is not eligible for Credit/D/Fail grading. [1-5-1;0-6-1] Prerequisite: ENPH 459.

Projects designed to give students research development and design experience. Projects are provided by research faculty in Science and Engineering and from local Industry. This course is not eligible for Credit/D/Fail grading. [1-5-1;0-6-1] Prerequisite: ENPH 459.
ENPH_V 479 T1A Engineering Physics Project III

W1-2

Projects designed to give students research-development and design experience. Projects are
provided by research faculty in Science and Engineering and from local industry. This course is not
eligible for Credit/D/Fail grading. [3-0-6-0] Prerequisite: ENPH 450.

In Person Learning Arranged Arranged

ENPH_V 480-101 ENPH_V 480 101 Engineering Physics Project IV

W1

An optional course for those students wishing to continue their project work beyond the
development in ENPH 479. This course is not eligible for Credit/D/Fail grading. [3-0-6-0] Prerequisite:
ENPH 479.

In Person Learning Arranged Arranged

ENPH_V 480-201 ENPH_V 480 201 Engineering Physics Project IV

W2

An optional course for those students wishing to continue their project work beyond the
development in ENPH 479. This course is not eligible for Credit/D/Fail grading. [3-0-6-0] Prerequisite:
ENPH 479.

In Person Learning Arranged Arranged

ENPH_V 480-11A ENPH_V 480 11A Engineering Physics Project IV

W1

An optional course for those students wishing to continue their project work beyond the
development in ENPH 479. This course is not eligible for Credit/D/Fail grading. [3-0-6-0] Prerequisite:
ENPH 479.

In Person Learning Arranged Arranged

ENPH_V 480-12A ENPH_V 480 12A Engineering Physics Project IV

W2

An optional course for those students wishing to continue their project work beyond the
development in ENPH 479. This course is not eligible for Credit/D/Fail grading. [3-0-6-0] Prerequisite:
ENPH 479.

In Person Learning Arranged Arranged

ENST_V 481-101 ENST_V 481 101 Entrepreneurial Projects I

W1

A project course for students pursuing entrepreneurial training within Engineering Physics, and
working to further develop projects resulting from ENPH 459. This course is not eligible for
Credit/D/Fail grading. [3-0-6-0] Prerequisite: ENPH 450.

In Person Learning Arranged Arranged

ENST_V 481-201 ENST_V 481 201 Entrepreneurial Projects I

W2

A project course for students pursuing entrepreneurial training within Engineering Physics, and
working to further develop projects resulting from ENPH 459. This course is not eligible for
Credit/D/Fail grading. [3-0-6-0] Prerequisite: ENPH 450.

In Person Learning Arranged Arranged

ENST_V 481-11A ENST_V 481 11A Entrepreneurial Projects I

W1

A project course for students pursuing entrepreneurial training within Engineering Physics, and
working to further develop projects resulting from ENPH 459. This course is not eligible for
Credit/D/Fail grading. [3-0-6-0] Prerequisite: ENPH 450.

In Person Learning Arranged Arranged

ENST_V 481-21L-12A ENST_V 481 21L 12A Entrepreneurial Projects I

W2

The demographic, economic, sociological, and technological factors that underlie current
environmental challenges, considering their effects to date and their possible impact in the future.
Credit will only be granted for one of GEOG 211 or ENST 211. Recommended: Second-year standing.
Expendency: GEOG 211

In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

ENST_V 481-21L-12A ENST_V 481 21L 21L The State of the Earth

W1

The demographic, economic, sociological, and technological factors that underlie current
environmental challenges, considering their effects to date and their possible impact in the future.
Credit will only be granted for one of GEOG 211 or ENST 211. Recommended: Second-year standing.
Expendency: GEOG 211

In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

ENST_V 481-21L-12A ENST_V 481 21L 21L The State of the Earth

W2

Concepts of environment, resources and sustainability, the roles of physical and human geography in
understanding the interaction of humans and the environment; introduction to management of
environmental resource systems. Credit will be granted for only one of ENST 310 or GEOG 310.
Expendency: GEOG 310

Online Learning Mon Wed 11:00 a.m. - 12:30 p.m.

ENST_V 310-101 ENST_V 310 101 Environment and Sustainability

W1

Concepts of environment, resources and sustainability, the roles of physical and human geography in
understanding the interaction of humans and the environment; introduction to management of
environmental resource systems. Credit will be granted for only one of ENST 310 or GEOG 310.
Expendency: GEOG 310

In Person Learning Tue Thu 10:00 a.m. - 11:30 a.m.

ENST_V 310-201 ENST_V 310 201 Environment and Sustainability

W2

The impact of urban development on the natural environment and vice versa. Study of the ecology
and metabolism of cities and green urban design, using global and local case studies. Credit will be
granted for only one of ENST 311 or GEOG 311. Equivalency: GEOG 311

In Person Learning Mon Wed 11:00 a.m. - 12:30 a.m.

ENST_V 311-201 ENST_V 311 201 Urban Environments

W1

The impact of urban development on the natural environment and vice versa. Study of the ecology
and metabolism of cities and green urban design, using global and local case studies. Credit will be
granted for only one of ENST 311 or GEOG 311. Equivalency: GEOG 311

In Person Learning Mon Wed 11:00 a.m. - 12:30 a.m.

ENST_V 311-201 ENST_V 311 201 Urban Environments

W2

Climate over the geological, historical and instrument periods. Theories of climatic change.
Monitoring and modeling the climate system. Impacts of changes on environmental and socio-
economic systems. Credit will be granted for only one of ENST 312 or GEOG 312. Recommended pre-
requisites: one of GEOS 102, GEOB 102, GEOS 200, GEOB 200, GEOS 958, GEOS 959, ATSC 201, EOSC
112 and 113 year standing. Equivalency: GEOG 312

In Person Learning Tue Thu 11:00 a.m. - 12:30 a.m.

ENST_V 312-201 ENST_V 312 201 Climate Change: Science and Society

W1

The principles, implementation, and role of environmental impact assessment in environmental
management, in Canada and internationally. Credit will be granted for only one of ENST 310 or GEOG
310. Equivalency: GEOG 310

In Person Learning Mon Wed 2:00 p.m. - 3:30 p.m.

ENST_V 319-201 ENST_V 319 201 Environmental Impact Assessment

W1

Effects of urbanization and global environmental change on the geographies of cities across the
world. Specific focus on urban environmental justice and inequity. Credit will be granted for only
one of ENST 311 or GEOG 311. Equivalency: GEOG 311

In Person Learning Wed Fri 3:30 p.m. - 5:00 p.m.

ENST_V 351-201 ENST_V 351 201 Urban Environmental Politics

W2

Environmental Engineering design and decision making, analysis tools and techniques, data
illustration and other communication techniques; professional development including ethics and
empathy. Subject themes include water, air and soil. This course is not eligible for Credit/D/Fail grading.
[3-0-2] Prerequisite: Second-year standing in ENVL.

In Person Learning Wed Fri 11:00 a.m. - 12:30 p.m.

ENVE_V 200-101 ENVE_V 200 101 Environmental Engineering Design and Decision Making

W1

Environmental Engineering design and decision making, analysis tools and techniques, data
illustration and other communication techniques; professional development including ethics and
empathy. Subject themes include water, air and soil. This course is not eligible for Credit/D/Fail grading.
[3-0-2] Prerequisite: Second-year standing in ENVL.

In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

ENVE_V 200-21A ENVE_V 200 21A Environmental Engineering Design and Decision Making

W1

All aspects of technical communication, including report preparation, business correspondence,
and oral presentations. Background in integrated environmental design and decision making. Projects
are not eligible for Credit/D/Fail grading. [3-0-6-0] Prerequisite: ENVE 201.

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

ENVE_V 205-201 ENVE_V 205 201 Technical Communications for Environmental Engineering

W2

Analysis of the integrated environmental systems, quantities of fundamental chemical and biological
processes, systems design, evaluation of environmental impact, future trends. This course is not
eligible for Credit/D/Fail grading. [2-4-0] Prerequisite: Four of chem 154A, 206, 204, CHBE 261.

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

ENVE_V 202-21A ENVE_V 202 21A Environmental Engineering Science

W2

Analysis of integrated environmental systems, quantities of fundamental chemical and biological
processes, systems design, evaluation of environmental impact, future trends. This course is not
eligible for Credit/D/Fail grading. [2-4-0] Prerequisite: Four of chem 154A, 206, 204, CHBE 261.

In Person Learning Mon 2:00 p.m. - 4:00 p.m.
<table>
<thead>
<tr>
<th>CRN</th>
<th>Section</th>
<th>Title</th>
<th>Days</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
<th>Delivery</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>203</td>
<td>201</td>
<td>Environmental Engineering and Sustainability</td>
<td>W2</td>
<td></td>
<td></td>
<td>Sustainability vocabulary and systems theory relevant to environmental engineering practice, foundational sustainability topics including those relating to urban ecology, environmental economics, and human-environment engineering, stakeholder analysis, communication, and adaptive change leadership skills (3-0-0) Prerequisite: EnvironmentalSci 200. or third-year standing in EnvironmentalSci.</td>
<td>In Person</td>
<td>Tue Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>203</td>
<td>T2A</td>
<td>Environmental Engineering and Sustainability</td>
<td>W2</td>
<td></td>
<td></td>
<td>Sustainability vocabulary and systems theory relevant to environmental engineering practice, foundational sustainability topics including those relating to urban ecology, environmental economics, and human-environment engineering, stakeholder analysis, communication, and adaptive change leadership skills (3-0-0) Prerequisite: EnvironmentalSci 200. or third-year standing in EnvironmentalSci.</td>
<td>In Person</td>
<td>Wed 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>203</td>
<td>T2B</td>
<td>Environmental Engineering and Sustainability</td>
<td>W2</td>
<td></td>
<td></td>
<td>Sustainability vocabulary and systems theory relevant to environmental engineering practice, foundational sustainability topics including those relating to urban ecology, environmental economics, and human-environment engineering, stakeholder analysis, communication, and adaptive change leadership skills (3-0-0) Prerequisite: EnvironmentalSci 200. or third-year standing in EnvironmentalSci.</td>
<td>In Person</td>
<td>Wed 2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>301</td>
<td>201</td>
<td>Environmental Engineering Intermediate Design Project</td>
<td>W2</td>
<td></td>
<td></td>
<td>Real-time, fully-integrated, conceptual and detailed design experiences that address an ill-structured, socially and technically complex environmental engineering problem for communities with consideration for the cultural history and needs of the communities. This course is not eligible for Credit/Fail grading. Prerequisite: EnvironmentalSci 201. or third-year standing in EnvironmentalSci.</td>
<td>In Person</td>
<td>Thu 9:30 a.m. - 9:30 a.m.</td>
</tr>
<tr>
<td>301</td>
<td>T2A</td>
<td>Environmental Engineering Intermediate Design Project</td>
<td>W2</td>
<td></td>
<td></td>
<td>Real-time, fully-integrated, conceptual and detailed design experiences that address an ill-structured, socially and technically complex environmental engineering problem for communities with consideration for the cultural history and needs of the communities. This course is not eligible for Credit/Fail grading. Prerequisite: EnvironmentalSci 201. or third-year standing in EnvironmentalSci.</td>
<td>In Person</td>
<td>Thu 9:30 a.m. - 9:30 a.m.</td>
</tr>
<tr>
<td>401</td>
<td>001</td>
<td>Environmental Engineering Capstone Project</td>
<td>W1-2</td>
<td></td>
<td></td>
<td>Application of chemical, biological, and environmental science; engineering concepts; sustainable development and health and safety considerations; engineering economics; and life cycle analysis. Conceptual and detailed design for a multi-scale and complex environment health and protection problem. This course is not eligible for Credit/Fail grading. Prerequisite: EnvironmentalSci 300 and Fourth-year standing in EnvironmentalSci.</td>
<td>In Person</td>
<td>Fri 11:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>401</td>
<td>D01</td>
<td>Environmental Engineering Capstone Project</td>
<td>W2</td>
<td></td>
<td></td>
<td>Application of chemical, biological, and environmental science; engineering concepts; sustainable development and health and safety considerations; engineering economics; and life cycle analysis. Conceptual and detailed design for a multi-scale and complex environment health and protection problem. This course is not eligible for Credit/Fail grading. Prerequisite: EnvironmentalSci 300 and Fourth-year standing in EnvironmentalSci.</td>
<td>In Person</td>
<td>Arranged</td>
</tr>
<tr>
<td>401</td>
<td>T0A</td>
<td>Environmental Engineering Capstone Project</td>
<td>W1-2</td>
<td></td>
<td></td>
<td>Application of chemical, biological, and environmental science; engineering concepts; sustainable development and health and safety considerations; engineering economics; and life cycle analysis. Conceptual and detailed design for a multi-scale and complex environment health and protection problem. This course is not eligible for Credit/Fail grading. Prerequisite: EnvironmentalSci 300 and Fourth-year standing in EnvironmentalSci.</td>
<td>In Person</td>
<td>Wed 3:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>401</td>
<td>T0B</td>
<td>Environmental Engineering Capstone Project</td>
<td>W1-2</td>
<td></td>
<td></td>
<td>Application of chemical, biological, and environmental science; engineering concepts; sustainable development and health and safety considerations; engineering economics; and life cycle analysis. Conceptual and detailed design for a multi-scale and complex environment health and protection problem. This course is not eligible for Credit/Fail grading. Prerequisite: EnvironmentalSci 300 and Fourth-year standing in EnvironmentalSci.</td>
<td>In Person</td>
<td>Tue 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>200</td>
<td>101</td>
<td>Introduction to Environmental Science</td>
<td>W1</td>
<td></td>
<td></td>
<td>Seminars and field trips introducing the major global, regional, and local environmental issues facing human societies. Prerequisite: Open to all students with second-year, or higher, standing.</td>
<td>In Person</td>
<td>Wed 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>200</td>
<td>201</td>
<td>Introduction to Environmental Science</td>
<td>W2</td>
<td></td>
<td></td>
<td>Seminars and field trips introducing the major global, regional, and local environmental issues facing human societies. Prerequisite: Open to all students with second-year, or higher, standing.</td>
<td>In Person</td>
<td>Wed 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>200</td>
<td>T01</td>
<td>Introduction to Environmental Science</td>
<td>W1</td>
<td></td>
<td></td>
<td>Seminars and field trips introducing the major global, regional, and local environmental issues facing human societies. Prerequisite: Open to all students with second-year, or higher, standing.</td>
<td>In Person</td>
<td>Arranged</td>
</tr>
<tr>
<td>200</td>
<td>T02</td>
<td>Introduction to Environmental Science</td>
<td>W2</td>
<td></td>
<td></td>
<td>Seminars and field trips introducing the major global, regional, and local environmental issues facing human societies. Prerequisite: Open to all students with second-year, or higher, standing.</td>
<td>In Person</td>
<td>Arranged</td>
</tr>
<tr>
<td>201</td>
<td>101</td>
<td>Climate Action Lab 1</td>
<td>W1</td>
<td></td>
<td></td>
<td>Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/Fail grading.</td>
<td>In Person</td>
<td>Tue Thu 5:00 p.m. - 6:30 p.m.</td>
</tr>
<tr>
<td>201</td>
<td>201</td>
<td>Climate Action Lab 1</td>
<td>W1</td>
<td></td>
<td></td>
<td>Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/Fail grading.</td>
<td>In Person</td>
<td>Mon Wed 5:00 p.m. - 6:30 p.m.</td>
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<tr>
<td>201</td>
<td>L1A</td>
<td>Climate Action Lab 1</td>
<td>W1</td>
<td></td>
<td></td>
<td>Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/Fail grading.</td>
<td>In Person</td>
<td>Arranged</td>
</tr>
<tr>
<td>300</td>
<td>201</td>
<td>Introduction to Research in Environmental Science</td>
<td>W2</td>
<td></td>
<td></td>
<td>Environmental research. Students investigate research methodologies and reporting in a range of scientific disciplines and fields. Prerequisite: Open to all students with third-year, or higher, standing in the Faculty of Science.</td>
<td>In Person</td>
<td>Tue Thu 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>300</td>
<td>L1A</td>
<td>Introduction to Research in Environmental Science</td>
<td>W1</td>
<td></td>
<td></td>
<td>Environmental research. Students investigate research methodologies and reporting in a range of scientific disciplines and fields. Prerequisite: Open to all students with third-year, or higher, standing in the Faculty of Science.</td>
<td>In Person</td>
<td>Arranged</td>
</tr>
<tr>
<td>300</td>
<td>L1A</td>
<td>Introduction to Research in Environmental Science</td>
<td>W2</td>
<td></td>
<td></td>
<td>Environmental research. Students investigate research methodologies and reporting in a range of scientific disciplines and fields. Prerequisite: Open to all students with third-year, or higher, standing in the Faculty of Science.</td>
<td>In Person</td>
<td>Arranged</td>
</tr>
<tr>
<td>301</td>
<td>201</td>
<td>Climate Action Lab 2</td>
<td>W1</td>
<td></td>
<td></td>
<td>Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/Fail grading.</td>
<td>In Person</td>
<td>Arranged</td>
</tr>
<tr>
<td>301</td>
<td>202</td>
<td>Climate Action Lab 2</td>
<td>W1</td>
<td></td>
<td></td>
<td>Community-engaged climate action projects; skill building for climate action. Pass/Fail This course is not eligible for Credit/Fail grading.</td>
<td>In Person</td>
<td>Arranged</td>
</tr>
<tr>
<td>ENVR V 301-L1A ENVR V 301-L1A</td>
<td>Climate Action Lab 2</td>
<td>W1</td>
<td>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 301.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENVR V 302-L101 ENVR V 302-L101</td>
<td>Climate Action Lab 1 and 2</td>
<td>W1</td>
<td>Community-engaged climate action projects; skill building for climate action. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-3-0] Prerequisite: 3rd year standing and approval from the Climate Studies and Action Certificate Program Administrator.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
<td></td>
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<tr>
<td>ENVR V 303-L102 ENVR V 303-L102</td>
<td>Climate Action Lab 1 and 2</td>
<td>W1</td>
<td>Community-engaged climate action projects; skill building for climate action. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-3-0] Prerequisite: 3rd year standing and approval from the Climate Studies and Action Certificate Program Administrator.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
<td></td>
<td></td>
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<tr>
<td>ENVR V 303-L11A ENVR V 303-L11A</td>
<td>Climate Action Lab 1 and 2</td>
<td>W1</td>
<td>Community-engaged climate action projects; skill building for climate action. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-3-0] Prerequisite: 3rd year standing and approval from the Climate Studies and Action Certificate Program Administrator.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
<td></td>
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</tr>
<tr>
<td>ENVR V 400-101 ENVR V 400-101</td>
<td>Community Project in Environmental Science</td>
<td>W1-2</td>
<td>Instructor-guided collaboration between student teams and community partners on community-based environmental science projects. Teams articulate project questions and goals, devise methods, conduct research and communicate results. Credit will be given for only one of ENVR 400 or ENVR 449. [3-0-0; 3-0-0] Prerequisite: ENVR 300.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td></td>
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<tr>
<td>ENVR V 400-101 ENVR V 400-101</td>
<td>Community Project in Environmental Science</td>
<td>W1-2</td>
<td>Instructor-guided collaboration between student teams and community partners on community-based environmental science projects. Teams articulate project questions and goals, devise methods, conduct research and communicate results. Credit will be given for only one of ENVR 400 or ENVR 449. [3-0-0; 3-0-0] Prerequisite: ENVR 300.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>ENVR V 403-L101 ENVR V 403-L101</td>
<td>Climate Action Lab 3</td>
<td>W1</td>
<td>Community-engaged climate action projects; skill building for climate action. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-0] Prerequisite: One of ENVR 301, ENVR 302.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>5:00 p.m. - 6:30 p.m.</td>
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<tr>
<td>ENVR V 403-L102 ENVR V 403-L102</td>
<td>Climate Action Lab 3</td>
<td>W1</td>
<td>Community-engaged climate action projects; skill building for climate action. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-0] Prerequisite: One of ENVR 301, ENVR 302.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>ENVR V 403-L103 ENVR V 403-L103</td>
<td>Climate Action Lab 3</td>
<td>W1</td>
<td>Community-engaged climate action projects; skill building for climate action. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-0] Prerequisite: One of ENVR 301, ENVR 302.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>5:00 p.m. - 6:30 p.m.</td>
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<tr>
<td>ENVR V 403-L11A ENVR V 403-L11A</td>
<td>Climate Action Lab 3</td>
<td>W1</td>
<td>Community-engaged climate action projects; skill building for climate action. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [0-2-0] Prerequisite: One of ENVR 301, ENVR 302.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>ENVR V 404-201 ENVR V 404-201</td>
<td>Climate Studies and Action Capstone</td>
<td>W2</td>
<td>Instructor-guided collaboration between student teams and community partners on climate action projects. [3-0-0] Prerequisite: ENVR 401.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>5:00 p.m. - 6:30 p.m.</td>
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<tr>
<td>ENVR V 410-101 ENVR V 410-101</td>
<td>Energy, Environment, and Society</td>
<td>W1</td>
<td>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, analysis/interpretation, impacts, and alternatives. [3-0-0] Prerequisite: Fourth-year standing in B.Sc., B.A.Sc. or related programs.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>ENVR V 410-201 ENVR V 410-201</td>
<td>Energy, Environment, and Society</td>
<td>W2</td>
<td>The role of energy in human societies throughout the 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, analysis/interpretation, impacts, and alternatives. [3-0-0] Prerequisite: Fourth-year standing in B.Sc., B.A.Sc. or related programs.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>ENVR V 420-200 ENVR V 420-200</td>
<td>Ecological Hydrology of Watersheds and Water Systems</td>
<td>W2</td>
<td>Analysis of water resources from a water-in-ecosystem perspective. Application to natural, managed, and urban systems, considering ecological interactions with hydrological processes. Exploration of biogeochemical processes related to water quality, and human impacts on water resources. [3-0-0] Prerequisite: Third or fourth-year standing in Science, Applied Science, Land and Food Systems, or Forestry.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ENVR V 430-101 ENVR V 430-101</td>
<td>Ecological Dimensions of Sustainability</td>
<td>W1</td>
<td>Current issues. Application to agricultural, energy, and resource systems in terrestrial and aquatic contexts. Analysis of simple problems; incorporation of science into novel interdisciplinary solutions. [3-0-0] Prerequisite: Class standing 3, and either (1) one of ENVR 300, BIOL 230, FRST 201 or (2) other demonstrated ecology background.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>ENVR V 430-201 ENVR V 430-201</td>
<td>Ecological Dimensions of Sustainability</td>
<td>W2</td>
<td>Current issues. Application to agricultural, energy, and resource systems in terrestrial and aquatic contexts. Analysis of simple problems; incorporation of science into novel interdisciplinary solutions. [3-0-0] Prerequisite: Class standing 3, and either (1) one of ENVR 300, BIOL 230, FRST 201 or (2) other demonstrated ecology background.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
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<tr>
<td>ENVR V 460-201 ENVR V 460-201</td>
<td>Analytical Methods in Sustainability Science</td>
<td>W2</td>
<td>Sustainability analysis through a series of case studies. Example approaches include cost-benefit analysis, trade-offs analysis, and lifecycle analysis. Active learning in a computer lab using real-world data. [3-0-0] Prerequisite: One of ENVR 300, AGRI 220, BIOL 230, QSCI 251. Third-year standing.</td>
<td>In Person Learning</td>
<td>Wed Fri</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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</table>
In Person Learning
11:00 a.m. - 2:00 p.m.
Mon Wed Fri
2:00 p.m. - 5:00 p.m.
In Person Learning

Laboratory Exploration of Planet Earth
L2C
The Catastrophic Earth: Natural Disasters
EOSC_V
W2
The Catastrophic Earth: Natural Disasters
Arranged
In Person Learning
Wed
1:00 p.m. - 2:00 p.m.

Directed Studies in Environmental Science
W1
In Person Learning
Mon Wed Fri
2:00 p.m. - 5:00 p.m.
In Person Learning

Laboratory Exploration of Planet Earth
EOSC_V
W2
The Solid Earth: A Dynamic Planet
EOSC_V
Mon Wed Fri
110
201
114
In Person Learning
Arranged

Directed Studies in Environmental Science
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Arranged

Laboratory Exploration of Planet Earth
EOSC_V
Thu
In Person Learning

Directed Studies in Environmental Science
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In Person Learning
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Laboratory Exploration of Planet Earth
EOSC_V
Thu
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Laboratory Exploration of Planet Earth
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Laboratory Exploration of Planet Earth
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Directed Studies in Environmental Science
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114
Arranged
Introduction to causes and physical characteristics of disasters such as volcanic eruptions, earthquakes, tsunamis, hurricanes, storm surge, thunderstorms, tornadoes, landslides, wind waves, meteor impacts, mass extinctions. [3-0-0]

Introduction to causes and physical characteristics of disasters such as volcanic eruptions, earthquakes, tsunamis, hurricanes, storm surge, thunderstorms, tornadoes, landslides, wind waves, meteor impacts, mass extinctions. [3-0-0]

Introduction to causes and physical characteristics of disasters such as volcanic eruptions, earthquakes, tsunamis, hurricanes, storm surge, thunderstorms, tornadoes, landslides, wind waves, meteor impacts, mass extinctions. [3-0-0]

Introduction to causes and physical characteristics of disasters such as volcanic eruptions, earthquakes, tsunamis, hurricanes, storm surge, thunderstorms, tornadoes, landslides, wind waves, meteor impacts, mass extinctions. [3-0-0]

Introduction to causes and physical characteristics of disasters such as volcanic eruptions, earthquakes, tsunamis, hurricanes, storm surge, thunderstorms, tornadoes, landslides, wind waves, meteor impacts, mass extinctions. [3-0-0]

Focus on the interaction between society and the geologic environment. Locating, assessing and developing natural resources; understanding and preparing for natural hazards, design of structures and waste disposal sites. [3-2-0] Corequisite: One of CIVL 215, MINE 200.

Focus on the interaction between society and the geologic environment. Locating, assessing and developing natural resources; understanding and preparing for natural hazards, design of structures and waste disposal sites. [3-2-0] Corequisite: One of CIVL 215, MINE 200.

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Introductory Petrology
12:30 p.m. - 2:00 p.m.
6:00 p.m. - 9:00 p.m.

Introductory Mineralogy
Mon Wed Fri
12:00 p.m. - 2:00 p.m.

Computational Methods in Geological Engineering
L2B
In Person Learning
2:00 p.m. - 5:00 p.m.

Computational Methods in Geological Engineering
221
In Person Learning
2:00 p.m. - 5:00 p.m.

Introductory Petrology
Mon Wed Fri
12:00 p.m. - 2:00 p.m.

Computational Methods in Geological Engineering
L2F
In Person Learning
9:00 a.m. - 12:00 p.m.

Computational Methods in Geological Engineering
W1
W2
In Person Learning
9:00 a.m. - 12:00 p.m.

Computational Methods in Geological Engineering
101
In Person Learning
3:00 p.m. - 4:00 p.m.

Optical mineralogy and the classification and genesis of igneous, metamorphic and sedimentary rocks. [2-3-0] Prerequisite: [EOSC220]

Optical mineralogy and the classification and genesis of igneous, metamorphic and sedimentary rocks. [2-3-0] Prerequisite: [EOSC220]

Understanding and measuring geological time and Earth history using stratigraphic principles.

Optical mineralogy and the classification and genesis of igneous, metamorphic and sedimentary rocks. [2-3-0] Prerequisite: [EOSC220]

Cutting-edge problems in earth, oceans, atmospheric and planetary sciences. Topics will be introduced through discussions of the current literature. [3-0-0] Prerequisite: Second-year standing in science or engineering.

Combining basic physical principles with their mathematical description and generating computational models that describe them. Introduction to basic building blocks in modelling, simulation and parameter estimation. [3-1-0] Prerequisite: One of MATH 120, MATH 122 and one of MATH 121, MATH 123 and one of MATH 124, MATH 125, MATH 126, MATH 127, MATH 128, EOSC 211, EOSC 212, EOSC 213, EOSC 214, EOSC 215, EOSC 216, EOSC 217.

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/course-exclusion-lists. [2-2-0] Prerequisite: One of CHEM 112, CHEM 113, CHEM 120, CHEM 121, CHEM 141, SCI 001.

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/course-exclusion-lists. [2-2-0] Prerequisite: One of CHEM 112, CHEM 113, CHEM 120, CHEM 121, CHEM 141, SCI 001.

Optical mineralogy and the classification and genesis of igneous, metamorphic and sedimentary rocks. 

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/course-exclusion-lists. [3-0-0] Prerequisite: Second-year standing in science or engineering.

Cutting-edge problems in earth, oceans, atmospheric and planetary sciences. Topics will be introduced through discussions of the current literature. [3-0-0] Prerequisite: Second-year standing in science or engineering.

Mixing basic physical principles with their mathematical description and generating computational models that describe them. Introduction to basic building blocks in modelling, simulation and parameter estimation. [3-1-0] Prerequisite: One of MATH 120, MATH 122 and one of MATH 121, MATH 123 and one of MATH 124, MATH 125, MATH 126, MATH 127, MATH 128, EOSC 211, EOSC 212, EOSC 213, EOSC 214, EOSC 215, EOSC 216, EOSC 217.

Combining basic physical principles with their mathematical description and generating computational models that describe them. Introduction to basic building blocks in modelling, simulation and parameter estimation. [3-1-0] Prerequisite: One of MATH 120, MATH 122 and one of MATH 121, MATH 123 and one of MATH 124, MATH 125, MATH 126, MATH 127, MATH 128, EOSC 211, EOSC 212, EOSC 213, EOSC 214, EOSC 215, EOSC 216, EOSC 217.

Mathematical computer-based problem solving in the physical, chemical, and biological sciences.
<table>
<thead>
<tr>
<th>CRN</th>
<th>Title</th>
<th>Credits</th>
<th>Days</th>
<th>Times</th>
<th>Location</th>
<th>Instructor</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>310</td>
<td>The Earth and the Solar System</td>
<td>2</td>
<td>Mon Wed Fri</td>
<td>3:00 p.m. - 6:00 p.m.</td>
<td>W2</td>
<td>Arranged</td>
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<tr>
<td>270</td>
<td>Marine Ecosystems</td>
<td>2</td>
<td>Tue Thu</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>W2</td>
<td>Site Investigation</td>
<td>Theory and practice of site investigation for geological engineers, including background studies, field work, remote sensing, development of ground models, importance of geological variability and uncertainty, impacts on design, project risk and decision making. [2-2-0] Prerequisite: EOSC 210. Corequisite: CIVL 210.</td>
</tr>
<tr>
<td>250</td>
<td>Beds and Basins</td>
<td>2</td>
<td>Mon Wed Fri</td>
<td>3:00 p.m. - 6:00 p.m.</td>
<td>W2</td>
<td>Arranged</td>
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<tr>
<td>240</td>
<td>Site Investigation</td>
<td>2</td>
<td>Wed</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
<td>Site Investigation</td>
<td>Theory and practice of site investigation for geological engineers, including background studies, field work, remote sensing, development of ground models, importance of geological variability and uncertainty, impacts on design, project risk and decision making. [2-2-0] Prerequisite: EOSC 210. Corequisite: CIVL 210.</td>
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<tr>
<td>223</td>
<td>Field Techniques</td>
<td>2</td>
<td>Mon Wed Fri</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
<td>Arranged</td>
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<tr>
<td>223</td>
<td>Field Techniques</td>
<td>2</td>
<td>Mon Wed Fri</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
<td>Arranged</td>
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</table>

**In Person Learning**

- EOSC_Y 223-L2C Geological Time and Stratigraphy
- EOSC_Y 223-L2B Marine Ecosystems
- EOSC_Y 223-L2A Field Techniques
- EOSC_Y 223-L2D Earth and the Solar System
- EOSC_Y 223-L2E Introduction to the techniques of geological mapping and the interpretation of field data. Includes three one-day field trips on weekends plus a seven-day field school after Spring examinations. An fee is to be paid by January 31. [3-0-0] Prerequisite: EOSC 221. | In Person Learning | Tue | 3:00 p.m. - 5:00 p.m. |

**Field Techniques**

- EOSC_Y 223-L2B Marine Ecosystems
- EOSC_Y 223-L2D Earth and the Solar System
- EOSC_Y 223-L2A Field Techniques
- EOSC_Y 223-L2E Introduction to the techniques of geological mapping and the interpretation of field data. Includes three one-day field trips on weekends plus a seven-day field school after Spring examinations. An fee is to be paid by January 31. [3-0-0] Prerequisite: EOSC 221. | In Person Learning | Fri | 3:00 p.m. - 5:00 p.m. |

**Site Investigation**

- EOSC_Y 223-L2A Site Investigation
- EOSC_Y 223-L2D Earth and the Solar System
- EOSC_Y 223-L2E Introduction to the techniques of geological mapping and the interpretation of field data. Includes three one-day field trips on weekends plus a seven-day field school after Spring examinations. An fee is to be paid by January 31. [3-0-0] Prerequisite: EOSC 221. | In Person Learning | Thu | 3:00 p.m. - 6:00 p.m. |

**The Earth and the Solar System**

- EOSC_Y 210-201 The Earth and the Solar System
- EOSC_Y 210-88A The Earth and the Solar System
- EOSC_Y 210-98C The Earth and the Solar System
- EOSC_Y 211-101 The Earth and its Resources
- EOSC_Y 211-99C The Earth and its Resources
- EOSC_Y 314-101 The Ocean Environment | In Person Learning | Arranged | Arranged | Arranged | Arranged | Arranged |
The origin and formation of igneous rocks. [2-2-0] Prerequisite: EOSC 221.

Deciphering lithospheric processes as recorded by the mineralogy, chemistry and textures of metamorphosed rocks. [2-3-0] Prerequisite: EOSC 221.

Origin, diagenesis and geochemistry of sediments and sedimentary rocks. [2-2-0] Prerequisite: EOSC 221 and one of EOSC 210, EOSC 222.

An introduction to life in the oceans, its variety and evolution; primary producers and their links to the environment, zooplankton, marine communities, living marine resources and their role in today's world. Not for credit for students in specializations administered by the Department of Earth, Ocean, and Atmospheric Sciences. (https://www.eoas.ubc.ca/undergrad/degrees). No background in science or mathematics is required. [3-0-0] Prerequisite: Class standing 2.


**Field Geology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Type</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>EOSC 323-LIA</td>
<td>3</td>
<td>3L1A</td>
<td>Structural Geology</td>
<td>Wed</td>
<td>3:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>EOSC 323-LIB</td>
<td>3</td>
<td>3L1B</td>
<td>Structural Geology</td>
<td>Thu</td>
<td>4:00 p.m. - 7:00 p.m.</td>
</tr>
<tr>
<td>EOSC 323-LIC</td>
<td>3</td>
<td>3L1C</td>
<td>Structural Geology</td>
<td>Fri</td>
<td>3:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>EOSC 323-LID</td>
<td>3</td>
<td>3L1D</td>
<td>Structural Geology</td>
<td>Mon</td>
<td>4:00 p.m. - 7:00 p.m.</td>
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</table>

**Earth and Life Through Time**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Type</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>L1A</td>
<td>3</td>
<td>3L1A</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>L1B</td>
<td>3</td>
<td>3L1B</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>3:30 p.m. - 5:30 p.m.</td>
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<tr>
<td>L1C</td>
<td>3</td>
<td>3L1C</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>4:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>L1D</td>
<td>3</td>
<td>3L1D</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>5:00 p.m. - 7:00 p.m.</td>
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</tbody>
</table>

**In Person Learning**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Type</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>W1</td>
<td>3</td>
<td>3W1</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>W2</td>
<td>3</td>
<td>3W2</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>3:30 p.m. - 5:30 p.m.</td>
</tr>
<tr>
<td>W3</td>
<td>3</td>
<td>3W3</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>4:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>W4</td>
<td>3</td>
<td>3W4</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>5:00 p.m. - 7:00 p.m.</td>
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</table>

**Principles of Physical Hydrogeology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Type</th>
<th>Time</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>EOSC 325-101</td>
<td>3</td>
<td>3L1</td>
<td>Principles of Physical Hydrogeology</td>
<td>Mon</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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</tbody>
</table>

**Quantitative Groundwater Hydrology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Type</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>EOSC 330</td>
<td>3</td>
<td>3L1</td>
<td>Principles of Geomorphology</td>
<td>Wed</td>
<td>3:00 p.m. - 4:00 p.m.</td>
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</table>

**Quantitative Groundwater Hydrology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Contact Hours</th>
<th>Type</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>EOSC 321</td>
<td>3</td>
<td>3L1</td>
<td>Principles of Geomorphology</td>
<td>Wed</td>
<td>3:00 p.m. - 4:00 p.m.</td>
</tr>
</tbody>
</table>
COSC_V 330-11C
110
COSC_V Principles of Geovisualization
W1
Landform development, morphological and historical analysis of landforms; applications in engineering and resource development. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-2-0] Prerequisite: One of GEOG 103, ECS 110, ECS 210. 
In Person Learning Thu 8:00 a.m. - 10:00 a.m.

COSC_V 330-11D
110
Principles of Geovisualization
W1
Landform development, morphological and historical analysis of landforms; applications in engineering and resource development. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists. [3-2-0] Prerequisite: One of GEOG 103, ECS 110, ECS 210. 
In Person Learning Tue 9:00 a.m. - 11:00 a.m.

COSC_V 331-101
101
Introduction to Mineral Deposits
W1
Introduction to economic geology and models related to mineral exploration. Study includes typical deposit types and their plate tectonic setting. [3-3-0] Prerequisite: ECS 221. 
In Person Learning Thu Tue Fri 10:00 a.m. - 11:00 a.m.

COSC_V 331-11A
11A
Introduction to Mineral Deposits
W1
Introduction to economic geology and models related to mineral exploration. Study includes typical deposit types and their plate tectonic setting. [3-3-0] Prerequisite: ECS 221. 
In Person Learning Wed 1:00 p.m. - 4:00 p.m.

COSC_V 331-11B
11B
Introduction to Mineral Deposits
W1
Introduction to economic geology and models related to mineral exploration. Study includes typical deposit types and their plate tectonic setting. [3-3-0] Prerequisite: ECS 221. 
In Person Learning Fri 1:00 p.m. - 4:00 p.m.

COSC_V 331-11C
11C
Introduction to Mineral Deposits
W1
Introduction to economic geology and models related to mineral exploration. Study includes typical deposit types and their plate tectonic setting. [3-3-0] Prerequisite: ECS 221. 
In Person Learning Mon 8:00 a.m. - 10:00 a.m.

COSC_V 332-301
301
Tectonic Evolution of North America
W2
An overview of the geology and tectonic evolution of North America; comparison and contrasts between Precambrian rocks of the North American cratons and Phaneritic belts of the Cordillera, Appalachians, and the Andes; interactions between sedimentation, deformation, metamorphism and magmatism in a plate tectonic context. [3-0-0] Prerequisite: [EOSC332] or permission of the instructor. 
In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.

COSC_V 333-201
201
Elemental and Isotopic Geochemistry
W2
Analytical methods in geochemistry, major and trace element geochemistry, radiogenic isotopes, geochemistry of seawater, the mantle, basaltic rocks, sedimentary rocks, continental crust. [3-2-0] Prerequisite: ECS 221. 
In Person Learning Wed 9:00 a.m. - 10:00 a.m.

COSC_V 333-21A
21A
Elemental and Isotopic Geochemistry
W2
Analytical methods in geochemistry, major and trace element geochemistry, radiogenic isotopes, geochemistry of seawater, the mantle, basaltic rocks, sedimentary rocks, continental crust. [3-2-0] Prerequisite: ECS 221. 
In Person Learning Fri 1:00 p.m. - 4:00 p.m.

COSC_V 333-21B
21B
Elemental and Isotopic Geochemistry
W2
Analytical methods in geochemistry, major and trace element geochemistry, radiogenic isotopes, geochemistry of seawater, the mantle, basaltic rocks, sedimentary rocks, continental crust. [3-2-0] Prerequisite: ECS 221. 
In Person Learning Wed 3:00 p.m. - 6:00 p.m.

COSC_V 340-101
101
Climate Change: Causes and Solutions
W1
Mechanisms and processes of past and future global climate change. Climate models and projected impacts. Climate solutions including carbon sequestration, adaptation and geoengineering. [3-0-0] Prerequisite: Either (a) SCI1 01L or (b) one of CHIM 102, CHIM 111, CHIM 120, CHIM 121, CHIM 141, CHIM 154 and one of MATH 101, MATH 102, MATH 106, MATH 108 and one of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 152, PHYS 157. 
In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

COSC_V 340-201
201
Climate Change: Causes and Solutions
W2
Mechanisms and processes of past and future global climate change. Climate models and projected impacts. Climate solutions including carbon sequestration, adaptation and geoengineering. [3-0-0] Prerequisite: Either (a) SCI1 01L or (b) one of CHIM 102, CHIM 111, CHIM 120, CHIM 121, CHIM 141, CHIM 154 and one of MATH 101, MATH 102, MATH 106, MATH 108 and one of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 152, PHYS 157. 
In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

COSC_V 350-301
301
Environmental, Geotechnical, and Exploration Geophysics I
W1
Principles of geophysical survey design, data acquisition, processing and interpretation with emphasis on near-surface problems. Magnetic, seismic reflection/inversion, 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.

COSC_V 350-31A
31A
Environmental, Geotechnical, and Exploration Geophysics I
W1
Principles of geophysical survey design, data acquisition, processing and interpretation with emphasis on near-surface problems. Magnetic, seismic reflection/inversion, 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 1:00 p.m. - 2:00 p.m.

COSC_V 350-31B
31B
Environmental, Geotechnical, and Exploration Geophysics I
W1
Principles of geophysical survey design, data acquisition, processing and interpretation with emphasis on near-surface problems. Magnetic, seismic reflection/inversion, 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 3:00 p.m. - 5:00 p.m.

COSC_V 351-101
101
Geophysical Continuum Dynamics
W1
Introduction to tensor calculus and continuum mechanics. Stress, strain and strain-rate tensors. Mass, momentum and energy balance. Applications to problems of geophysical heat transport, elasticity and fluid dynamics. [3-0-0] Prerequisite: One of EOSC 222, MATH 137. 
In Person Learning Tue 11:00 a.m. - 12:30 p.m.

COSC_V 351-11A
11A
Geophysical Continuum Dynamics
W2
Introduction to tensor calculus and continuum mechanics. Stress, strain and strain-rate tensors. Mass, momentum and energy balance. Applications to problems of geophysical heat transport, elasticity and fluid dynamics. [3-0-0] Prerequisite: One of EOSC 222, MATH 137. 
In Person Learning Arranged Arranged

COSC_V 354-101
101
Analysis of Time Series and Inverse Theory for Earth Scientists
W1
Continuous and discrete Fourier transforms, correlation and convolution, spectral estimation, 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. [2-2-0] Prerequisite: Either (a) SCI1 01L or (b) one of MATH 101, MATH 103, MATH 105, MATH 106, MATH 107, MATH 108 and one of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 152, PHYS 157. 
In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m.

COSC_V 354-11A
11A
Analysis of Time Series and Inverse Theory for Earth Scientists
W1
Continuous and discrete Fourier transforms, correlation and convolution, spectral estimation, 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. [2-2-0] Prerequisite: Either (a) SCI1 01L or (b) one of CHIM 102, CHIM 111, CHIM 120, CHIM 121, CHIM 141, CHIM 154 and one of MATH 101, MATH 102, MATH 106, MATH 108 and one of PHYS 101, PHYS 106, PHYS 107, PHYS 117, PHYS 152, PHYS 157. 
In Person Learning Mon Wed Fri 12:00 p.m. - 1:00 p.m.
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<th>Course Title</th>
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<tr>
<td>EOSC_V 372-102</td>
<td>Introductory Oceanography: Circulation and Plankton</td>
<td>W1</td>
<td>Physical and chemical processes and their controls on the distribution of plankton in the ocean. (3-0-0) Prerequisite: Either (a) EOSC 301 or (b) one of EOSC 331, EOSC 332, CHIM 141, CHIM 142, and one or more of MATH 101, MATH 102, MATH 103, MATH 121, and one of PHYS 101, PHYS 102, PHYS 107, PHYS 111, PHYS 112, PHYS 117.</td>
</tr>
<tr>
<td>EOSC_V 373-101</td>
<td>Introductory Oceanography: Climate and Ecosystems</td>
<td>W2</td>
<td>Physical, chemical, and biological processes in the ocean and their interaction with climate and marine food webs. (3-0-0) Prerequisite: EOSC 372.</td>
</tr>
<tr>
<td>EOSC_V 399-101</td>
<td>Co-operative Work Placement I</td>
<td>W1</td>
<td>Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in the Summer Session (Terms 1 and 2) following second year. Technical report required. Restricted to students admitted to the Co-operative Education Option in Earth, Ocean and Atmospheric Sciences. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>EOSC_V 399-201</td>
<td>Co-operative Work Placement II</td>
<td>W2</td>
<td>Approved and supervised technical work experience in an industrial, university or government setting for a minimum of 14 weeks. Normally taken in Winter Session (Terms 1 and 2) following second year. Technical report required. Restricted to students admitted to the Co-operative Education Option in Earth, Ocean and Atmospheric Sciences. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>EOSC_V 220</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 221</td>
<td>Structural Geology I</td>
<td>W1</td>
<td>Field and lab-based studies in volcanology concentrating on physical and chemical aspects of volcanic processes. (2-3-0) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 222</td>
<td>Advanced Sedimentology</td>
<td>W2</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 223</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 224</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 225</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 226</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 227</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 228</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 229</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 230</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 231</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 232</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 233</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 234</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 235</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 236</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 237</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 238</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 239</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 240</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 241</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 242</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 243</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 244</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
</tr>
<tr>
<td>EOSC_V 245</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
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<tr>
<td>EOSC_V 246</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
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<td>EOSC_V 247</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
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<tr>
<td>EOSC_V 248</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
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<tr>
<td>EOSC_V 249</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
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<tr>
<td>EOSC_V 250</td>
<td>Advanced Sedimentology</td>
<td>W1</td>
<td>Description and interpretation of ancient and modern sediments, with emphasis on the origin, composition, textures, structures, diagenesis and chemistry of biogenic sediments. (2-0-2) Prerequisite: EOSC 220, EOSC 221.</td>
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Geochemistry and geophysics.

**Aqueous Geochemistry**

- Lab: L2A 101
- Mon-Wed 9:00 a.m. - 10:00 a.m.
- Fri 10:00 a.m. - 11:00 a.m.

**Groundwater Contamination**

- Lab: L2A 201
- Mon-Wed 9:00 a.m. - 10:00 a.m.
- Fri 10:00 a.m. - 11:00 a.m.

**Fossil Fuels**

- Lab: L2A 301
- Mon-Wed 9:00 a.m. - 10:00 a.m.
- Fri 10:00 a.m. - 11:00 a.m.

**Fossil Fuels**

- Lab: L2A 301
- Mon-Wed 9:00 a.m. - 10:00 a.m.
- Fri 10:00 a.m. - 11:00 a.m.

**Palaeontology**

- Lab: L2B 101
- Mon-Wed 9:00 a.m. - 10:00 a.m.
- Fri 10:00 a.m. - 11:00 a.m.

**Climate Measurement and Analysis**

- Lab: L2A 101
- Mon-Wed 2:00 p.m. - 3:00 p.m.
- Fri 10:00 a.m. - 11:00 a.m.

**Paleontology**

- Lab: L2B 101
- Mon-Wed 9:00 a.m. - 10:00 a.m.
- Fri 10:00 a.m. - 11:00 a.m.

**Geothermal Engineering Practice I - Rock Engineering**

- Lab: L2B 201
- Mon-Wed 9:00 a.m. - 10:00 a.m.
- Fri 10:00 a.m. - 11:00 a.m.

**Geothermal Engineering Practice II - Soil Engineering**

- Lab: L2B 201
- Mon-Wed 9:00 a.m. - 10:00 a.m.
- Fri 10:00 a.m. - 11:00 a.m.

**Groundwater Contamination**

- Lab: L2A 201
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**Fossil Fuels**

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- Lab: L2B 101
- Mon-Wed 9:00 a.m. - 10:00 a.m.
- Fri 10:00 a.m. - 11:00 a.m.
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<th>Prerequisites</th>
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<tr>
<td>EOSC 440-301</td>
<td>Climate Measurement and Analysis</td>
<td>3-0-0</td>
<td>EOSC 373.</td>
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<tr>
<td>EOSC 442-201</td>
<td>Directed Studies</td>
<td>3-2-0</td>
<td>MATH 152, MATH 221, MATH 223, and one of MATH 152, MATH 221, MATH 223.</td>
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<tr>
<td>EOSC 450-101</td>
<td>Climate Measurement and Analysis</td>
<td>3-0-0</td>
<td>EOSC 211, MATH 210, PHYS 107, PHYS 108, PHYS 110.</td>
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<tr>
<td>EOSC 453-101</td>
<td>Physics of the Earth and Other Planets</td>
<td>3-0-0</td>
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<tr>
<td>EOSC 454-201</td>
<td>Geodesy, Geodynamics, and Planetary Sciences</td>
<td>3-0-0</td>
<td>[PHYS 312, MATH 257]</td>
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<tr>
<td>EOSC 455-201</td>
<td>Local climate time series collection and analysis</td>
<td>3-0-0</td>
<td>EOSC 211, MATH 210, PHYS 107, PHYS 108, PHYS 110.</td>
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<tr>
<td>EOSC 460-101</td>
<td>Interior Structure of Earth and Planets</td>
<td>3-0-0</td>
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<tr>
<td>EOSC 461-301</td>
<td>Climate Measurement and Analysis</td>
<td>3-0-0</td>
<td>EOSC 373.</td>
</tr>
<tr>
<td>EOSC 462-201</td>
<td>Directed Studies</td>
<td>3-2-0</td>
<td>MATH 152, MATH 221, MATH 223, and one of MATH 152, MATH 221, MATH 223.</td>
</tr>
<tr>
<td>EOSC 463-101</td>
<td>Physics of the Earth and Other Planets</td>
<td>3-0-0</td>
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<tr>
<td>EOSC 465-301</td>
<td>Applied Geophysics</td>
<td>3-0-0</td>
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</table>
Methods of data acquisition, study and analysis required in solving oceanographic problems. Includes population dynamics, species interactions, communities, environmental influences, stock assessment, economics and sociology of fisheries. Laboratories will consist of numerical analyses and simulations. [2-0-3] Prerequisite: One of EOSC 372, EOSC 373.

Data Analysis in Atmospheric, Earth and Ocean Sciences
This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing in Science. [3-0-0] This course is not eligible for Credit/D/Fail grading.

Crystal structure, chemistry, origin and paragenesis of major rock-forming and ore minerals. This course is not eligible for Credit/D/Fail grading.

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

Co-operative Work Placement III
This course is not eligible for Credit/D/Fail grading.

Co-operative Work Placement IV
This course is not eligible for Credit/D/Fail grading.

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

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

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Teaching and Learning in Earth, Ocean and Atmospheric Sciences
This course is not eligible for Credit/D/Fail grading.

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

Methods of data acquisition, study and analysis required in solving oceanographic problems. Includes population dynamics, species interactions, communities, environmental influences, stock assessment, economics and sociology of fisheries. Laboratories will consist of numerical analyses and simulations. [2-0-3] Prerequisite: One of EOSC 372, EOSC 373.

Methods in Oceanography
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In Person Learning
This course is not eligible for Credit/D/Fail grading.

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Methods in Oceanography
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EOSC_V 525 W2 201 Magnetic Ore Deposits

In Person Learning

Arranged

Arranged

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

EOSC_V 526 W2 201 Mechanics of Natural Deformation

In Person Learning

Arranged

Arranged

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

EOSC_V 527 W2 201 Instrumentation and Monitoring in Geotechnical Engineering Practice

Online Learning

Arranged

Arranged

In Person Learning: Topics in Geohazard Risk Management

W2

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

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

In Person Learning: Field Laboratory in Groundwater Hydrology

W2

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

In Person Learning: Advanced Field Methods in Earth Science

W2

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

In Person Learning: Geological Engineering: Soils and Weak Rocks

Online Learning

Arranged

W2

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

In Person Learning: Advanced Models in Mineral Deposits

W2

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

Online Learning: Multi-component Reactive Transport Modelling in Groundwater

W2

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

In Person Learning: Magmatic Ore Deposits

W2

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

In Person Learning: Instrumentation and Monitoring in Geological Engineering Practice

W2

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

W2

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

EOSC_V 548 W1-2 201 Graduating Paper for Masters Candidates without Thesis

In Person Learning

Arranged

Arranged

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

EOSC_V 549 B 201 Topics in Geohazard Risk Management

In Person Learning

Arranged

Arranged

In Person Learning: Field Laboratory in Groundwater Hydrology

W2

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

In Person Learning: Advanced Field Methods in Earth Science

W2

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

In Person Learning: Geological Engineering: Soils and Weak Rocks

Online Learning

Arranged

W2

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

In Person Learning: Advanced Models in Mineral Deposits

W2

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

Online Learning: Multi-component Reactive Transport Modelling in Groundwater

W2

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

In Person Learning: Magmatic Ore Deposits

W2

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

In Person Learning: Instrumentation and Monitoring in Geological Engineering Practice

W2

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

W2

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

EOSC_V 549 A, 201 Graduating Paper for Masters Candidates without Thesis

W1-2

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

In Person Learning

Arranged

Arranged

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

EOSC_V 549 B, 001 Graduating Paper for Masters Candidates without Thesis

W1-2

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

In Person Learning

Arranged

Arranged

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

EOSC_V 549 B, 001 Graduating Paper for Masters Candidates without Thesis

W1-2

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

In Person Learning

Arranged

Arranged

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

EOSC_V 549 A, 001 Master's Thesis

W1-2

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

In Person Learning

Arranged

Arranged

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

EOSC_V 549 B, 001 Graduating Paper for Masters Candidates without Thesis

W1-2

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

In Person Learning

Arranged

Arranged

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

EOSC_V 549 A, 001 Master's Thesis

W1-2

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

In Person Learning

Arranged

Arranged

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<th>Course Code</th>
<th>Course Title</th>
<th>Course Type</th>
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<th>Credit Value</th>
<th>Learning Format</th>
<th>Notes</th>
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<tr>
<td>EOSC_V 549-A_101</td>
<td>Master's Thesis</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged</td>
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<td>EOSC_V 549-A_201</td>
<td>Master's Thesis</td>
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<td>EOSC_V 549-B_001</td>
<td>Master's Thesis</td>
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<td>EOSC_V 549-B_201</td>
<td>Master's Thesis</td>
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<tr>
<td>EOSC_V 555-B_101</td>
<td>Nonlinear Inverse Theory</td>
<td>W1</td>
<td>Model construction, appraisal of nonuniqueness, and inference in nonlinear problems. Stochastic inverses, constrained optimization, joint inversions and image processing. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Tue Thu 1:00 p.m. - 4:30 p.m.</td>
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<td>EOSC_V 555-B_201</td>
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<td>W2</td>
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<tr>
<td>EOSC_V 556-B_201</td>
<td>Studies in Applied Geophysics</td>
<td>W2</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. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>EOSC_V 573-201</td>
<td>Methods in Oceanography</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.</td>
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<td>EOSC_V 573-L1A</td>
<td>Methods in Oceanography</td>
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<tr>
<td>EOSC_V 573-L2A</td>
<td>Methods in Oceanography</td>
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<tr>
<td>EOSC_V 575-101</td>
<td>The Biology and Ecology of Marine Zooplanktonic Organisms</td>
<td>W1</td>
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<td>EOSC_V 579-201</td>
<td>Dynamic Oceanography</td>
<td>W2</td>
<td>Consult the Credit Exclusion List in the Faculty of Science section of the Calendar. This course is not eligible for Credit/D/Fail grading. Prerequisite: EOSC 512. In Person Learning Arranged</td>
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<td>EOSC_V 584-B_001</td>
<td>Topics in Biological Oceanography</td>
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<td>EOSC_V 595-A_101</td>
<td>Directed Studies</td>
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<td>EOSC_V 595-B_101</td>
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<td>EOSC_V 649-001</td>
<td>Doctoral Dissertation</td>
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<td>EPSE_V 301-074</td>
<td>Introduction to Educational Psychology</td>
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<td>(3-0)</td>
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<td>EPSE_V 303-63A</td>
<td>Teaching Highly Able Learners</td>
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<td>Identification and appraisal of developmental and educational needs of highly able learners.</td>
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<td>EPSE_V 308-001</td>
<td>Development, Learning and Culture in the Classroom</td>
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<td>Development, Learning and Culture in the Classroom</td>
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</table>

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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<th>Time</th>
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<tr>
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<td>8:00 a.m. - 9:00 a.m.</td>
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<td>1:00 p.m. - 2:00 p.m.</td>
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<td>2:00 p.m. - 3:00 p.m.</td>
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<td>8:00 a.m. - 9:00 a.m.</td>
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</table>

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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<td>EPSE V 310-A_007</td>
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<td>310</td>
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<td>E62C</td>
<td>Development and Exceptionality in the Regular Classroom</td>
<td>W2</td>
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<td>EPSE V 317-640</td>
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<td>317</td>
<td>E460</td>
<td>Development and Exceptionality in the Regular Classroom</td>
<td>W2</td>
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<td>Course Code</td>
<td>Credits</td>
<td>Title</td>
<td>Description</td>
<td>Meeting Times</td>
<td>Delivery Method</td>
<td>W1</td>
<td>W2</td>
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<tr>
<td>EPSE 317-641</td>
<td>3-0</td>
<td>Development and Exceptionality in the Regular Classroom</td>
<td>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. Designed sections will focus on early childhood, middle childhood to adolescence. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [3-0-0].</td>
<td>In Person Learning</td>
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<tr>
<td>EPSE 320-63A</td>
<td>3-0</td>
<td>Classroom Inclusion of Students who are Blind and Visually Impaired</td>
<td>Inclusion issues of students with visual impairments in general education classrooms; information about visual impairment, classroom adaptations and accommodations, and application of Universal Design. Appropriate for education majors and classroom teachers. [3-0].</td>
<td>Online Learning</td>
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<tr>
<td>EPSE 320-63C</td>
<td>3-0</td>
<td>Classroom Inclusion of Students who are Blind and Visually Impaired</td>
<td>Inclusion issues of students with visual impairments in general education classrooms; information about visual impairment, classroom adaptations and accommodations, and application of Universal Design. Appropriate for education majors and classroom teachers. [3-0].</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>EPSE 34B-63A</td>
<td>3-0</td>
<td>Family-Centered Practice for Children with Special Needs</td>
<td>A study of innovative practices, ideas, and theories in special education. The specific topics may change yearly to reflect changing priorities and interests in special education, and the specific interest and competencies of visiting and regular faculty. Recommended pre-requisites: one of EPSE 312, EPSE 317. [3-0].</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>6:00 p.m. - 9:00 p.m.</td>
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<tr>
<td>EPSE 30A-410</td>
<td>3-0</td>
<td>Special Topics</td>
<td>A study of innovative practices, ideas, and theories in special education. The specific topics may change yearly to reflect changing priorities and interests in special education, and the specific interest and competencies of visiting and regular faculty. Recommended pre-requisites: one of EPSE 312, EPSE 317. [3-0].</td>
<td>Online Learning</td>
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<tr>
<td>EPSE 30A-63C</td>
<td>3-0</td>
<td>Special Topics</td>
<td>A study of innovative practices, ideas, and theories in special education. The specific topics may change yearly to reflect changing priorities and interests in special education, and the specific interest and competencies of visiting and regular faculty. Recommended pre-requisites: one of EPSE 312, EPSE 317. [3-0].</td>
<td>Online Learning</td>
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<tr>
<td>EPSE 30C-63A</td>
<td>3-0</td>
<td>Education of Students with Developmental Disabilities in Inclusive Settings</td>
<td>A study of innovative practices, ideas, and theories in special education. The specific topics may change yearly to reflect changing priorities and interests in special education, and the specific interest and competencies of visiting and regular faculty. Recommended pre-requisites: one of EPSE 312, EPSE 317. [3-0].</td>
<td>Online Learning</td>
<td>Arranged</td>
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</tr>
<tr>
<td>EPSE 30D-63B</td>
<td>3-0</td>
<td>Education of Students with Developmental Disabilities in Inclusive Settings</td>
<td>A study of innovative practices, ideas, and theories in special education. The specific topics may change yearly to reflect changing priorities and interests in special education, and the specific interest and competencies of visiting and regular faculty. Recommended pre-requisites: one of EPSE 312, EPSE 317. [3-0].</td>
<td>Online Learning</td>
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<tr>
<td>EPSE 30E-63C</td>
<td>3-0</td>
<td>Education of Students with Developmental Disabilities in Inclusive Settings</td>
<td>A study of innovative practices, ideas, and theories in special education. The specific topics may change yearly to reflect changing priorities and interests in special education, and the specific interest and competencies of visiting and regular faculty. Recommended pre-requisites: one of EPSE 312, EPSE 317. [3-0].</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>EPSE 30F-63A</td>
<td>3-0</td>
<td>Typical and Atypical Development in Infants and Children</td>
<td>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. Designed sections will focus on early childhood, middle childhood to adolescence. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [3-0-0].</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>EPSE 30G-63B</td>
<td>3-0</td>
<td>Typical and Atypical Development in Infants and Children</td>
<td>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. Designed sections will focus on early childhood, middle childhood to adolescence. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [3-0-0].</td>
<td>Online Learning</td>
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<tr>
<td>EPSE 30H-63C</td>
<td>3-0</td>
<td>Typical and Atypical Development in Infants and Children</td>
<td>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. Designed sections will focus on early childhood, middle childhood to adolescence. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [3-0-0].</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>EPSE 30I-63D</td>
<td>3-0</td>
<td>Typical and Atypical Development in Infants and Children</td>
<td>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. Designed sections will focus on early childhood, middle childhood to adolescence. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [3-0-0].</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>EPSE 30J-63E</td>
<td>3-0</td>
<td>Typical and Atypical Development in Infants and Children</td>
<td>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. Designed sections will focus on early childhood, middle childhood to adolescence. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [3-0-0].</td>
<td>Online Learning</td>
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<tr>
<td>EPSE 30K-63F</td>
<td>3-0</td>
<td>Typical and Atypical Development in Infants and Children</td>
<td>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. Designed sections will focus on early childhood, middle childhood to adolescence. Pass/Fail. This course is not eligible for Credit/D/Fail grading. [3-0-0].</td>
<td>Online Learning</td>
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<tr>
<td>EPSE 30L-63A</td>
<td>3-0</td>
<td>Educational Programming for Highly Able Learners</td>
<td>Planning elementary and secondary level programs for highly able learners. [3-0].</td>
<td>Online Learning</td>
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<tr>
<td>EPSE 30M-63B</td>
<td>3-0</td>
<td>Educational Programming for Highly Able Learners</td>
<td>Planning elementary and secondary level programs for highly able learners. [3-0].</td>
<td>Online Learning</td>
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<tr>
<td>EPSE 30N-63C</td>
<td>3-0</td>
<td>Educational Programming for Highly Able Learners</td>
<td>Planning elementary and secondary level programs for highly able learners. [3-0].</td>
<td>Online Learning</td>
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<tr>
<td>EPSE 311-074</td>
<td>3-0</td>
<td>Augmentative and Alternative Communication for Individuals with Severe Speech and/or Physical Impairments</td>
<td>Augmentative and Alternative Communication for Individuals with Severe Speech and/or Physical Impairments</td>
<td>[3-0-0].</td>
<td>Online Learning</td>
<td>Thu</td>
<td>4:30 p.m. - 7:30 p.m.</td>
</tr>
<tr>
<td>EPSE 321-074</td>
<td>3-0</td>
<td>Assessment of Learning Difficulties</td>
<td>Theories of learning and instructional principles and practices of diagnosis and assessment as these relate to students with relevant special needs.</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>EPSE 326-63C</td>
<td>3-0</td>
<td>Introduction to the Education of students Who are Deaf or Hard of Hearing</td>
<td>An introductory course focused on supporting the educational and social goals of students who are Deaf or Hard of Hearing.</td>
<td>Online Learning</td>
<td>Arranged</td>
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<td>Course Code</td>
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<tr>
<td>EPSE_V 430-074</td>
<td>Programming for Children with Specific Learning Disabilities</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>EPSE_V 430-07C</td>
<td>Classroom Management</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 436-074</td>
<td>Survey of Behaviour Disorders in Children and Adolescents</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>EPSE_V 437-074</td>
<td>Interventions for Children and Adolescents with Behaviour Disorders</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>EPSE_V 449-63A</td>
<td>Education of Students with Autism</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 449-63B</td>
<td>Education of Students with Autism</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 449-63C</td>
<td>Education of Students with Autism</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 449-63D</td>
<td>Education of Students with Autism</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 449-63E</td>
<td>Education of Students with Autism</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 449-63F</td>
<td>Education of Students with Autism</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 462-074</td>
<td>Human Development in Education</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>1:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>EPSE_V 481-074</td>
<td>Introduction to Research in Education</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>EPSE_V 482-074</td>
<td>Introduction to Statistics for Research in Education</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>EPSE_V 482-075</td>
<td>Introduction to Statistics for Research in Education</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>EPSE_V 483-63A</td>
<td>Reading and Interpreting Research in Education</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>EPSE_V 501-074</td>
<td>Seminar in Human Development, Learning and Culture</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>EPSE_V 503-075</td>
<td>Cultural Perspectives on Learning, Development and Media</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>EPSE_V 505-075</td>
<td>Foundations in Human Development: Infancy to Adulthood</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>EPSE_V 506-075</td>
<td>Applied Psychopathology Across the Lifespan</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>1:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>EPSE_V 512-074</td>
<td>Critical Issues in Special Education</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>EPSE_V 512-075</td>
<td>Critical Issues in Special Education</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 515-A_075</td>
<td>Building Supportive School and Community Environments to Prevent Problem Behaviour</td>
<td>In Person Learning</td>
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<tr>
<td>Course Code</td>
<td>Title</td>
<td>Format</td>
<td>+9415 or EPSE 546. This course is not eligible for Credit/D/Fail grading. Corequisite: All of EPSE 528, EPSE 553.</td>
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<tr>
<td>EPSE_V 510-075</td>
<td>Acoustic and Physical Environments in the Classroom</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 512-C_074</td>
<td>Practicum and Seminar in the Education of Learners Who Are Deaf and Hard of Hearing</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 515-074</td>
<td>Dual Language Approaches to Instruction with Learners Who Are Deaf and Hard of Hearing</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 516-074</td>
<td>Seminar in Specific Learning Disabilities</td>
<td>Online Learning</td>
<td>Thu 4:30 p.m. - 7:10 p.m.</td>
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<tr>
<td>EPSE_V 517-075</td>
<td>Basic Principles of Measurement</td>
<td>Online Learning</td>
<td>Tue 4:30 p.m. - 7:10 p.m.</td>
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<tr>
<td>EPSE_V 518-076</td>
<td>Development of Scales and Measures</td>
<td>Online Learning</td>
<td>Wed 8:30 a.m. - 12:30 p.m.</td>
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<tr>
<td>EPSE_V 519-074</td>
<td>Data-based Individualization of Academic Interventions for Learning Difficulties</td>
<td>Online Learning</td>
<td>Tue 4:30 p.m. - 7:10 p.m.</td>
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<tr>
<td>EPSE_V 520-074</td>
<td>Academic Assessment</td>
<td>Online Learning</td>
<td>Thu 1:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>EPSE_V 521-074</td>
<td>Social and Emotional Assessment</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 522-075</td>
<td>Programming in Orientation and Mobility</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>EPSE_V 523-075</td>
<td>Research Issues and Trends in the Education of Students with Visual Impairments</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>EPSE_V 524-074</td>
<td>Working with Students with Visual Impairments: Elementary and Secondary Curriculum</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 525-074</td>
<td>Assistance Technology for Teachers of Students with Visual Impairments</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 526-074</td>
<td>Seminar in Autism</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 527-074</td>
<td>Professional, Ethical and Legal Issues in School and Applied Child Psychology</td>
<td>Online Learning</td>
<td>Tue 8:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>EPSE_V 528-074</td>
<td>School-based Consultation</td>
<td>Online Learning</td>
<td>Tue 8:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>EPSE_V 529-074</td>
<td>Theories of Cognitive and Affective Abilities</td>
<td>Online Learning</td>
<td>Tue 8:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>EPSE_V 530-075</td>
<td>Cognitive and Academic Assessment Practicum</td>
<td>Online Learning</td>
<td>Tue 8:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>EPSE_V 531-076</td>
<td>Social and Emotional Interventions with Children and Youth</td>
<td>Online Learning</td>
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<tr>
<td>EPSE_V 532-076</td>
<td>Laboratory in School and Applied Child Psychology</td>
<td>Online Learning</td>
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EPSE 560-A_075  EPSE_V  S60  A  A_075  Laboratory in School and Applied Child Psychology  W2  Pass/Fail. Admission to the SACP program required. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Fri  3:30 p.m. - 6:00 p.m.

EPSE 560-A_076  EPSE_V  S60  A  A_076  Laboratory in School and Applied Child Psychology  W2  Pass/Fail. Admission to the SACP program required. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Thu  3:30 p.m. - 6:00 p.m.

EPSE 561-A_075  EPSE_V  S61  F  F_075  Laboratory Practicum  W1-2  This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.  In Person Learning  Fri  3:00 a.m. - 12:00 p.m.

EPSE 561-A_076  EPSE_V  S61  F  F_076  Laboratory Practicum  W1-2  This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.  In Person Learning  Fri  3:00 a.m. - 12:00 p.m.

EPSE 562-A_077  EPSE_V  S62  E74  Designing Inclusive Learning Communities: From Theory to Practice  W1  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Wed  4:30 p.m. - 7:30 p.m.

EPSE 563-A_075  EPSE_V  S63  E75  Inclusion Assessment and Programming for Students Requiring Targeted Supports  W2  This course is not eligible for Credit/D/Fail grading. Corequisite: All of EPSE 512, EPSE 562.  In Person Learning  Tue  4:30 p.m. - 7:30 p.m.

EPSE 565-A_075  EPSE_V  S65  A  A_075  Special Course in Subject Matter Field  W2  This course is not eligible for Credit/D/Fail grading.  Online Learning  Arranged  Arranged

EPSE 572-075  EPSE_V  S72  E74  Applications of Behaviour Analysis  W1  Philosophical underpinnings and applications of behaviour analytic principles to daily life. This course is not eligible for Credit/D/Fail grading. Prerequisite: EPSE 574.  In Person Learning  Arranged  Arranged

EPSE 574-075  EPSE_V  S74  E74  Principles of Behaviour Analysis  W1  This course is not eligible for Credit/D/Fail grading.  Online Learning  Arranged  Arranged

EPSE 575-075  EPSE_V  S75  E74  Seminar in Instructional Methods for Persons with Significant Learning Challenges  W2  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

EPSE 576-075  EPSE_V  S76  E75  Assessment and Positive Behaviour Support in School and Community Settings  W1  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue  4:30 p.m. - 7:30 p.m.

EPSE 577-075  EPSE_V  S77  E75  Seminar in Assessment and Positive Behaviour Support in School and Community Settings  W2  This course is not eligible for Credit/D/Fail grading. Prerequisite: EPSE 576.  In Person Learning  Wed  4:30 p.m. - 7:30 p.m.

EPSE 578-075  EPSE_V  S78  E75  Ethics for Behaviour Analysts  W2  Knowledge of the ethical principles, standards, and practices consistent with the role of an applied behaviour analyst. Application of ethical reasoning in applied behaviour analysis work with children, youth, and adults in home, school, and community settings will be emphasized. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of EPSE 572, EPSE 574.  In Person Learning  Tue  4:30 p.m. - 7:30 p.m.

EPSE 580-A_074  EPSE_V  S80  A  A_074  Investigation and Report of a Problem in Education  W1  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

EPSE 580-A_075  EPSE_V  S80  A  A_075  Investigation and Report of a Problem in Education  W2  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

EPSE 580-B_075  EPSE_V  S80  B  B_075  Investigation and Report of a Problem in Education  W2  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

EPSE 580-A_076  EPSE_V  S80  A  A_076  Investigation and Report of a Problem in Education  W1  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

EPSE 580-A_074  EPSE_V  S80  A  A_074  Investigation and Report of a Problem in Education  W1-2  This course is not eligible for Credit/D/Fail grading. Prerequisite: Courses appropriate to a specific special topic may be required.  In Person Learning  Thu  3:00 p.m. - 4:00 p.m.

EPSE 583-075  EPSE_V  S83  E74  Fostering Self-Regulated Learning  W1  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Thu  4:30 p.m. - 7:30 p.m.

EPSE 584-075  EPSE_V  S84  E74  Motivation in Education  W2  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Thu  4:30 p.m. - 7:30 p.m.

EPSE 585-075  EPSE_V  S85  E74  Social and Emotional Development in Education  W1  Recommended pre-requisite: EPSE 515. This course is not eligible for Credit/D/Fail grading.  Online Learning  Mon  4:30 p.m. - 7:30 p.m.
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<tr>
<td>EPSE_V 588-074</td>
<td>EPSE_V</td>
<td>Indigenous Pathways Through Social and Emotional Learning</td>
<td>W2</td>
<td>4:30 p.m. - 7:30 p.m.</td>
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<td>EPSE_V 588-D_075</td>
<td>EPSE_V</td>
<td>Master's Internship in School and Applied Child Psychology</td>
<td>W1-2</td>
<td>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/Meth</td>
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<td>EPSE_V 589-077</td>
<td>EPSE_V</td>
<td>Graduating Paper Seminar</td>
<td>W2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to students in the School and Applied Child Psychology Master's Program.</td>
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<tr>
<td>EPSE_V 592-074</td>
<td>EPSE_V</td>
<td>Experimental Designs and Analysis in Educational Research</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: EPSE 462. EPSE 482 may not be used as a prerequisite to EPSE 592.</td>
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<td>EPSE_V 592-090</td>
<td>EPSE_V</td>
<td>Experimental Designs and Analysis in Educational Research</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: EPSE 462. EPSE 482 may not be used as a prerequisite to EPSE 592.</td>
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<tr>
<td>EPSE_V 593-074</td>
<td>EPSE_V</td>
<td>Design and Analysis of Research with Small Samples and Single Subjects</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>EPSE_V 595-074</td>
<td>EPSE_V</td>
<td>Qualitative Research Methods</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>EPSE_V 595-075</td>
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<td>Qualitative Research Methods</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>EPSE_V 596-074</td>
<td>EPSE_V</td>
<td>Correlational Designs and Analysis in Educational Research</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: EPSE 462. EPSE 482 may not be used as a prerequisite.</td>
<td>In Person Learning</td>
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<tr>
<td>EPSE_V 596-090</td>
<td>EPSE_V</td>
<td>Correlational Designs and Analysis in Educational Research</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: EPSE 462. EPSE 482 may not be used as a prerequisite.</td>
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<tr>
<td>EPSE_V 597-075</td>
<td>EPSE_V</td>
<td>Structural Equation Modelling and Factor Analysis</td>
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<td>Field Experiences</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>EPSE_V 602-V_075</td>
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<td>EPSE_V 603-V_075</td>
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<tr>
<td>EPSE_V 604-A_075</td>
<td>EPSE_V</td>
<td>Advanced Topics in Human Development, Learning, and C</td>
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<tr>
<td>EPSE_V 606-075</td>
<td>EPSE_V</td>
<td>College and University Teaching</td>
<td>W1</td>
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<tr>
<td>EPSE_V 608-A_074</td>
<td>EPSE_V</td>
<td>Professional Seminar in School and Applied Child Psychology</td>
<td>W1-2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: Admission to the SAPC Ph.D. program required.</td>
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<td>EPSE_V 609-074</td>
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<td>Community-Based Services</td>
<td>W1</td>
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<tr>
<td>EPSE_V 610-074</td>
<td>EPSE_V</td>
<td>Special Topics in Advanced Intervention in School and Applied Child Psychology</td>
<td>W2</td>
<td>Admission to the SAPC Ph.D. program required. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of EPSE 552, EPSE 557.</td>
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<tr>
<td>EPSE_V 611-O_075</td>
<td>EPSE_V</td>
<td>Doctoral Practicum in School and Applied Child Psychology</td>
<td>W1-2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: EPSE 541. 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>EPSE 661-A</td>
<td>Doctoral Practicum in School and Applied Child Psychology</td>
<td>In Person Learning</td>
<td>1-2</td>
<td>Fri 9:00 a.m. - 12:00 p.m.</td>
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<td>EPSE 661-B</td>
<td>Doctoral Practicum in School and Applied Child Psychology</td>
<td>Online Learning</td>
<td>1-2</td>
<td>Fri 9:00 a.m. - 12:00 p.m.</td>
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<td>EPSE 683</td>
<td>Hierarchical Linear Modeling, Growth and Change</td>
<td>In Person Learning</td>
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<td>Thu 1:00 p.m. - 4:00 p.m.</td>
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<td>EPSE 687-A</td>
<td>Doctoral Practicum in School and Applied Child or Counselling Psychology</td>
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<td>EPSE 687-B</td>
<td>Doctoral Practicum in School and Applied Child or Counselling Psychology</td>
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<td>EPSE 687-C</td>
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<td>Pre-Doctoral Internship in School and Applied Child Psychology</td>
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<td>Research Methodology in Education</td>
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<td>ETEC 500</td>
<td>Research Methodology in Education</td>
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<tr>
<td>ETEC_V 531-66A</td>
<td>New Foundations of Educational Technology</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. Online Learning Arranged Arranged</td>
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<td>ETEC_V 531-64B</td>
<td>New Foundations of Educational Technology</td>
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<td>ETEC_V 531-65A</td>
<td>New Foundations of Educational Technology</td>
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<td>ETEC_V 532-66A</td>
<td>Applications of Learning Theories to the Analysis of Instructional Settings</td>
<td>W1</td>
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<tr>
<td>ETEC_V 532-64B</td>
<td>Applications of Learning Theories to the Analysis of Instructional Settings</td>
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<tr>
<td>ETEC_V 520-64A</td>
<td>Planning and Managing eLearning</td>
<td>W1</td>
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<td>ETEC_V 520-64B</td>
<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>ETEC_V 521-64B</td>
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<td>ETEC_V 522-64A</td>
<td>Ventures in Learning Technology</td>
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<td>ETEC_V 522-64B</td>
<td>Ventures in Learning Technology</td>
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<tr>
<td>ETEC_V 533-64A</td>
<td>Mobile &amp; Open Education</td>
<td>W1</td>
<td>Experiential immersion in the proven and emerging educational potentials of mobile technologies and open learning. Theory and strategy of mobile and open education through critical analysis of trending knowledge. Hands-on experience using a range of learning technologies and platforms, including learning and content management systems and multimedia and social media tools. This course is not eligible for Credit/D/Fail grading. Online Learning Arranged Arranged</td>
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<tr>
<td>ETEC_V 533-64B</td>
<td>Mobile &amp; Open Education</td>
<td>W2</td>
<td>Experiential immersion in the proven and emerging educational potentials of mobile technologies and open learning. Theory and strategy of mobile and open education through critical analysis of trending knowledge. Hands-on experience using a range of learning technologies and platforms, including learning and content management systems and multimedia and social media tools. This course is not eligible for Credit/D/Fail grading. Online Learning Arranged Arranged</td>
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<tr>
<td>ETEC_V 524-64A</td>
<td>Learning Technologies: Selection, Design, and Application</td>
<td>W1</td>
<td>Theoretical framework to assist educators in evaluating, selecting, and using various learning technologies. Hands-on experience using a range of learning technologies and platforms, including learning and content management systems and multimedia and social media tools. This course is not eligible for Credit/D/Fail grading. Online Learning Arranged Arranged</td>
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<tr>
<td>ETEC_V 524-64B</td>
<td>Learning Technologies: Selection, Design, and Application</td>
<td>W2</td>
<td>Theoretical framework to assist educators in evaluating, selecting, and using various learning technologies. Hands-on experience using a range of learning technologies and platforms, including learning and content management systems and multimedia and social media tools. This course is not eligible for Credit/D/Fail grading. Online Learning Arranged Arranged</td>
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<td>ETEC_V 530-64A</td>
<td>Constructivist Strategies for eLearning</td>
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<td>ETEC_V 531-64A</td>
<td>Curriculum Issues in Cultural and New Media Studies</td>
<td>W1</td>
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<td>W2</td>
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<th>Spring</th>
<th>Summer</th>
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<td>ETEC_V 532-65A</td>
<td>Technology in Arts and Humanities Classrooms</td>
<td>W2</td>
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<td>Technology in the Mathematics and Science Classroom</td>
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<td>ETEC_V 534-65A</td>
<td>Metathereal: New Materialism meets the History of Educational Media</td>
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<td>Text Technologies: The Changing Spaces of Reading and Writing</td>
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<tr>
<td>ETEC_V 541-64A</td>
<td>Energy Literacy in Society and Digital Culture</td>
<td>W1</td>
<td>Basic energy systems and technologies in the context of the cultural and social dimensions of environmental education and climate emergency—through conceptual, digital, and narrative models, as well as policy, design, and science. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>ETEC_V 542-64A</td>
<td>Culture and Communication in Virtual Learning Environments</td>
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<tr>
<td>ETEC_V 542-65A</td>
<td>Culture and Communication in Virtual Learning Environments</td>
<td>W2</td>
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<tr>
<td>ETEC_V 543-64A</td>
<td>Understanding Learning Analytics</td>
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<td>ETEC_V 543-64B</td>
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<td>ETEC_V 544-61A</td>
<td>Digital Games &amp; Learning</td>
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<td>Special Course in Subject Matter Field</td>
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<td>EXCH_V 372</td>
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<td>Student Exchange Program, Pharmacy</td>
<td>W2</td>
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<tr>
<td>EXCH_V 372</td>
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<td>Student Exchange Program, Pharmacy</td>
<td>W2</td>
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<td>FCOR_V 510-001</td>
<td>Professional Communication</td>
<td>W1-2</td>
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<td>Tue 2:00 p.m. - 5:00 p.m.</td>
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<td>FCOR_V 510-002</td>
<td>Professional Communication</td>
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<td>FCOR_V 511-001</td>
<td>Working with Diverse Knowledge Systems in Sustainable Natural Resources Management</td>
<td>W1-2</td>
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<td>FCOR_V 511-002</td>
<td>Working with Diverse Knowledge Systems in Sustainable Natural Resources Management</td>
<td>W1-2</td>
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<td>FCOR_V 589-001</td>
<td>Project Proposal Development and Proof of Concept</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Fri 12:00 p.m. - 2:00 p.m.</td>
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<td>FCOR_V 589-002</td>
<td>Project Proposal Development and Proof of Concept</td>
<td>W1-2</td>
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<td>Wed 11:00 a.m. - 12:30 p.m.</td>
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<td>FIPR_V 101-001</td>
<td>Introduction to the History of Film Production</td>
<td>W1</td>
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<td>Thur 9:00 a.m. - 12:00 p.m.</td>
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<td>131</td>
<td>Introduction to Screen Acting</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Fundamental techniques used to create emotionally engaged and narratively effective performances for film and digital media.</td>
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<td>133</td>
<td>Introduction to Film and Media Production</td>
<td>W1</td>
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<td>A hands-on introduction to film-Media Production, focusing on fundamental techniques for creating effective presentations.</td>
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<td>Introduction to Film and Media Production</td>
<td>W2</td>
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<td>In Person Learning</td>
<td>A hands-on introduction to film-Media Production, focusing on fundamental techniques for creating effective presentations.</td>
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<td>230</td>
<td>Introduction to Motion Picture Directing</td>
<td>W1</td>
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<td>In Person Learning</td>
<td>The role and methods of the motion picture director.</td>
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<td>233</td>
<td>Cinematography and Lighting I</td>
<td>W1</td>
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<td>Camera operation, lighting, sound, and editing for film and media production.</td>
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<td>Cinematography and Lighting I</td>
<td>W2</td>
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<td>Camera operation, lighting, sound, and editing for film and media production.</td>
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<td>234</td>
<td>Production Planning and Professional Practices</td>
<td>W1</td>
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<td>Planning of film productions from concept to completion.</td>
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<td>299</td>
<td>Directed Studies: Off-Campus Research</td>
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<td>On-campus film production field research.</td>
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<td>Directed Studies: Off-Campus Research</td>
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<td>Film and Media Production II</td>
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<td>Documentary Development and Production.</td>
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<td>337</td>
<td>Cinematography and Lighting I</td>
<td>W1</td>
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<td>An introduction to the technique and aesthetics of creating production and post-production sound for film and media.</td>
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<td>338</td>
<td>Motion Picture Sound</td>
<td>W1</td>
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<td>In Person Learning</td>
<td>Open only to students in the Film Production BFA Program.</td>
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<td>Post-Production Techniques I</td>
<td>W1</td>
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<td>Off-campus film production field research.</td>
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<td>Post-Production Techniques I</td>
<td>W2</td>
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<td>Off-campus film production field research.</td>
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<td>Post-Production Techniques I</td>
<td>W1-2</td>
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<td>Off-campus film production field research.</td>
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<td>Documentary Development and Production</td>
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<td>Documentary concept development, essential production techniques, and marketing.</td>
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<td>Documentary Development and Production</td>
<td>W2</td>
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<td>Documentary concept development, essential production techniques, and marketing.</td>
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<td>Documentary Development and Production</td>
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<td>Advanced camera operation, lighting, and shot design.</td>
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<td>Documentary Development and Production</td>
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<td>Advanced camera operation, lighting, and shot design.</td>
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<td>FIPR_V 439-001</td>
<td>Post-Production Techniques II</td>
<td>W2 Advanced instruction in post-production techniques. Open only to students in FILM BFA Production Program. Prerequisite: One of FIPR 333, FILM 333. Equivalency: FILM439 In Person Learning Mon 6:00 p.m. - 9:00 p.m.</td>
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<td>FIPR_V 469-A_001</td>
<td>Special Projects</td>
<td>W2 Advanced film production, including interdisciplinary projects. In Person Learning Thu 2:00 p.m. - 5:00 p.m.</td>
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<td>FIPR_V 469-F_001</td>
<td>Special Projects</td>
<td>W1 Advanced film production, including interdisciplinary projects. In Person Learning Arranged Arranged</td>
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<td>FIPR_V 469-G_001</td>
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<td>W1 Advanced film production, including interdisciplinary projects. In Person Learning Arranged Arranged</td>
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<td>FIPR_V 469-H_001</td>
<td>Special Projects</td>
<td>W2 Advanced film production, including interdisciplinary projects. In Person Learning Arranged Arranged</td>
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<td>FIPR_V 533-A_001</td>
<td>Advanced Problems in Directing</td>
<td>W1 Problems in directing narrative film. Explores problems in scripting, performance, shot design, and editing through seminars, workshops with acting students, and production exercises. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon 9:00 a.m. - 12:00 p.m.</td>
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<td>FIPR_V 533-B_001</td>
<td>Advanced Problems in Directing</td>
<td>W1 Problems in directing narrative film. Explores problems in scripting, performance, shot design, and editing through seminars, workshops with acting students, and production exercises. This course is not eligible for Credit/D/Fail grading. In Person Learning Thu 10:00 a.m. - 1:00 p.m.</td>
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<td>FIPR_V 534-A_001</td>
<td>Advanced Production for Film and Television</td>
<td>W1 This course is not eligible for Credit/D/Fail grading. In Person Learning Fri 9:00 a.m. - 12:00 p.m.</td>
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<td>FIPR_V 534-B_001</td>
<td>Advanced Production for Film and Television</td>
<td>W2 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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<td>FIPR_V 536-A_001</td>
<td>Advanced Documentary Development and Production</td>
<td>W1 This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
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<td>Quantitative Analysis of Fisheries II</td>
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<td>Family Resource Management</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.
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<td>FMST 316-101</td>
<td>Human Sexuality</td>
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<td>Parent-child Relationships</td>
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<td>Social Context of Child Development</td>
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<td>Equity in Same Language</td>
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<td>FNEL 180-101</td>
<td>Introduction to Unenukd Language Documentation and Revitalization</td>
<td>3.00</td>
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<td>10:00 a.m. - 11:00 a.m.</td>
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Development of skills in the documentation, transcription and analysis of grammatical structures in endangered languages, focusing on the diversity within Indigenous languages. Applied techniques in documentation, workflow and multi-media digital annotation, guided by community-based ethical protocols and conservation/revitalization goals. Restricted to Undergraduate Students. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue Thu  2:00 p.m. - 3:30 p.m.

Digital tools for endangered language documentation, conservation, and revitalization. Overview of best practices, introduction to community engagement and capacity building, protocols and ethics, project design, cultural context, orthography, use of audio, video and still photography, data management, archiving and best publishing, restricted to Undergraduate Students. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Arranged

Critical exploration of the links between linguistic, biological and cultural diversity; including connections with linguistic identity, linguistic identity, language and place; and strategies for collective, interdisciplinary action to promote and support the protection of languages, cultures, and the environment. Restricted to Undergraduate Students.

In Person Learning  Arranged

In Person Learning  Tue Thu  11:00 a.m. - 2:00 p.m.

Supervised by a Faculty member. Prerequisite: Agreement of Supervisor and approval of Director of the Institute for Critical Indigenous Studies.

In Person Learning  Tue  11:00 a.m. - 2:00 p.m.

Supervised by a Faculty member. Prerequisite: Agreement of Supervisor and approval of Director of the Institute for Critical Indigenous Studies.

In Person Learning  Wed  11:00 a.m. - 2:00 p.m.

Supervised by a Faculty member. Prerequisite: Agreement of Supervisor and approval of Director of the Institute for Critical Indigenous Studies.

In Person Learning  Wed  11:00 a.m. - 2:00 p.m.

Supervised by a Faculty member. Prerequisite: Agreement of Supervisor and approval of Director of the Institute for Critical Indigenous Studies.

In Person Learning  Mon Wed  9:30 a.m. - 11:00 a.m.

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.

In Person Learning  Arranged

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.

In Person Learning  Arranged

Application of research skills and methodologies in the design and implementation of a research project relevant to endangered language conservation and/or revitalization. Projects co-constructed in collaboration with a First Nations community, guided by community-based ethical protocols. Restricted to Undergraduate Students. Pre-requisite must be in same language. (Recommended prerequisite: FNEL 481).  This course is not eligible for Credit/D/Fail grading. Computer: All of FNEL 281, FNEL 381, FNEL 382. Computer use can be taken either alongside or prior to FNEL 481.

In Person Learning  Arranged

Basic principles in human physiology, including function of the nervous, endocrine, musculoskeletal and digestive systems, integration across systems, maintenance of homeostasis, and application to human nutrition. Prerequisite: One of CHEM 11, CHEM 12, CHEM 100, CHEM 151 and one of BIOS 11, ARTH 11, ARTH 12, ARTH 10, ARTH 101. FNEL 160 and 161 together are credit-excluded with BIO 113 and 115.

In Person Learning  Tue Thu  12:00 p.m. - 2:00 p.m.

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 100, CHEM 151 and one of BIOS 11, ARTH 11, ARTH 12, ARTH 10, ARTH 101. FNEL 160 and 161 together are credit-excluded with BIO 113 and 115.

In Person Learning  Tue Thu  1:30 p.m. - 5:00 p.m.

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: FNEL 160. FNEL 160 and 161 together are credit-excluded with BIO 113 and 115.

In Person Learning  Tue Thu  12:00 p.m. - 2:00 p.m.

Chemical and physical properties of foods; issues pertaining to safety, nutritive value and consumer acceptability; government regulations pertaining to food safety, quality and additives; preservation techniques and transformation of agricultural commodities to food products; foods of the future. (3-0-0) Prerequisite: At least second year standing required.

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

Chemical and physical properties of foods; issues pertaining to safety, nutritive value and consumer acceptability; government regulations pertaining to food safety, quality and additives; preservation techniques and transformation of agricultural commodities to food products; foods of the future. (3-0-0) Prerequisite: At least second year standing required.

In Person Learning  Tue Thu  12:30 p.m. - 2:00 p.m.

Chemical and physical properties of foods; issues pertaining to safety, nutritive value and consumer acceptability; government regulations pertaining to food safety, quality and additives; preservation techniques and transformation of agricultural commodities to food products; foods of the future. (3-0-0) Prerequisite: At least second year standing required.

In Person Learning  Tue Thu  11:00 a.m. - 12:30 p.m.
Chemical and physical properties of foods; issues pertaining to safety, nutritional 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] Prerequisite: At least second-year standing required.

Online Learning  Mon Wed Fri  12:00 p.m. – 1:00 p.m.

Chemical and physical properties of foods; issues pertaining to safety, nutritional 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] Prerequisite: At least second-year standing required.

Online Learning  Arranged  Arranged

Fundamental concepts and principles of human nutrition applicable to current nutrition issues. Prerequisite: Either (a) All of FNH 325, FNH 361 or (b) one of BIO 111, BIO 112, BIO 153, BIO 155 or (c) All of BIO 121, BIO 122. At least second-year standing required.

In Person Learning  Tue Thu  8:30 a.m. – 10:30 a.m.

Fundamental concepts and principles of human nutrition applicable to current nutrition issues. Prerequisite: Either (a) All of FNH 325, FNH 361 or (b) one of BIO 111, BIO 112, BIO 153, BIO 155 or (c) All of BIO 121, BIO 122. At least second-year standing required.

In Person Learning  Mon Wed  11:00 a.m. – 12:30 p.m.

Units and dimensions, mass balance, energy balance, steady state and transient heat flow, fluid handling and measurement. Prerequisite: One of RNHS 101, RNHS 102, RNHS 107, RNHS 109, RNHS 111, RNHS 117, RNHS 118, RNHS 157, RNHS 158, RNHS 170.

In Person Learning  Tue Thu  11:00 a.m. – 12:30 p.m.

Units and dimensions, mass balance, energy balance, steady state and transient heat flow, fluid handling and measurement. Prerequisite: One of RNHS 101, RNHS 102, RNHS 107, RNHS 109, RNHS 111, RNHS 117, RNHS 118, RNHS 157, RNHS 158, RNHS 170.

In Person Learning  Wed  11:00 a.m. – 12:30 p.m.

Chemical and physical properties of food constituents, including water, carbohydrates, proteins, lipids, minerals and vitamins. [3-0-1] Prerequisite: Either (a) CHEM 201 or (b) CHEM 203; and either (a) CHEM 205 or (b) CHEM 233.

In Person Learning  Mon Wed Fri  10:00 a.m. – 11:00 a.m.

Chemical and physical properties of food constituents, including water, carbohydrates, proteins, lipids, minerals and vitamins. [3-0-1] Prerequisite: Either (a) CHEM 201 or (b) CHEM 203; and either (a) CHEM 205 or (b) CHEM 233.

In Person Learning  Mon  11:00 a.m. – 12:30 p.m.

Principles and procedures for analysis of the chemical and physical properties of food; proximate analysis; introduction to instrumental analysis; reporting and analysis of data. [3-0-0] Prerequisite: Either (a) CHEM 201 or (b) CHEM 203; and either (a) CHEM 205 or (b) CHEM 233.

In Person Learning  Tue Thu  8:30 a.m. – 11:00 a.m.

Principles and procedures for analysis of the chemical and physical properties of food; proximate analysis; introduction to instrumental analysis; reporting and analysis of data. [3-0-0] Prerequisite: Either (a) CHEM 201 or (b) CHEM 203; and either (a) CHEM 205 or (b) CHEM 233.

In Person Learning  Wed  11:00 a.m. – 12:30 p.m.

Introduction to and application of concepts involved in food product formulation and development. Prerequisite: One of ULS 251, ULS 252, DPG 462, FNH 101, STAT 200. FNH 201 recommended.

In Person Learning  Wed Fri  10:30 a.m. – 12:30 p.m.

Presentation of issues and fluid food systems by selected physical and chemical treatments with emphasis on product process interactions. Prerequisite: One of FNH 12, FNH 100, FNH 105, FNH 106, FNH 107, RNHS 117, RNHS 118, RNHS 170.

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

Presentation of issues and fluid food systems by selected physical and chemical treatments with emphasis on product process interactions. Prerequisite: One of FNH 12, FNH 100, FNH 105, FNH 106, FNH 107, RNHS 117, RNHS 118, RNHS 170.

In Person Learning  Wed  4:00 p.m. – 5:00 p.m.

Roles of microorganisms in food production, preservation, spoilage, and foodborne disease; factors affecting growth, survival and inoculation of microorganisms in foods; methods for identifying, enumerating, and identifying microorganisms in food production environments. [3-0-3] Prerequisite: RNHS 112. Third-year standing.

Multi-access Learning  Wed Fri  12:00 p.m. – 1:00 p.m.

Laboratory techniques used in food chemistry, microbiology, and processing; statistical analysis and presentation of experimental data; scientific report writing. Enrollment restricted to Food Science students. Prerequisite: FNH 200. Companion: All of FNH 201, FNH 202, FNH 311 recommended.

In Person Learning  Tue  1:00 p.m. – 5:00 p.m.

Laboratory techniques used in food chemistry, microbiology, and processing; statistical analysis and presentation of experimental data; scientific report writing. Enrollment restricted to Food Science students. Prerequisite: FNH 200. Companion: All of FNH 201, FNH 202, FNH 311 recommended.

In Person Learning  Tue  1:00 p.m. – 5:00 p.m.

Laboratory techniques used in food analysis, food processing, sensory science and product development; statistical analysis and presentation of experimental data; scientific report writing. Enrollment restricted to Food Science students. Prerequisite: FNH 200. Companion: All of FNH 201, FNH 202, FNH 203.

In Person Learning  Tue  1:00 p.m. – 5:00 p.m.

Laboratory techniques used in food analysis, food processing, sensory science and product development; statistical analysis and presentation of experimental data; scientific report writing. Enrollment restricted to Food Science students. Prerequisite: FNH 200. Companion: All of FNH 201, FNH 202, FNH 203.

In Person Learning  Wed  1:00 p.m. – 5:00 p.m.

Principles of structure, ecology, and wine microbiology and chemistry; marketing, regulation and classification of wines from selected regions of the world; social, economic and health aspects of wine consumption; wine appreciation. Prerequisite: Third-year standing or higher.

Multi-access Learning  Tue  4:00 p.m. – 5:00 p.m.

Principles of structure, ecology, and wine microbiology and chemistry; marketing, regulation and classification of wines from selected regions of the world; social, economic and health aspects of wine consumption; wine appreciation. Prerequisite: Third-year standing or higher.

Multi-access Learning  Tue  4:00 p.m. – 5:00 p.m.

Principles of structure, ecology, 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.

In Person Learning  Tue  5:00 p.m. – 6:00 p.m.
<table>
<thead>
<tr>
<th>Code</th>
<th>CRN</th>
<th>CRN</th>
<th>Title</th>
<th>Description</th>
<th>Days</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>FNH_V 330-001</td>
<td>342</td>
<td>001</td>
<td>Introduction to Wine Science II</td>
<td>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.</td>
<td>Mon, Wed</td>
<td>3:30 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>FNH_V 330-002</td>
<td>340</td>
<td>002</td>
<td>Food Theory and Applications</td>
<td>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.</td>
<td>Mon, Wed</td>
<td>1:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>FNH_V 342-001</td>
<td>342</td>
<td>001</td>
<td>Critical Perspectives on Consumer Food Practices</td>
<td>Personal, collective, and policy factors affecting food choices, including perceptions of healthy eating, gender, identity, family structures, and economic, socioeconomic, and political forces. Prerequisite: At least third-year standing required.</td>
<td>Mon</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>Code</td>
<td>Days</td>
<td>Time</td>
<td>Format</td>
<td>Description</td>
<td>Prerequisites</td>
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<tr>
<td>FNH_V 345-001</td>
<td>Tue Thu</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>Counselling Skills in Dietetics: communication theory and foundational counselling skills. This course is not eligible for Credit/D/Fail grading. Prerequisite: FNH 250.</td>
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<tr>
<td>FNH_V 350-001</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>Fundamentals of Nutrition: 1. Fundamentals of energy and macronutrient metabolism. [3-0-0] Prerequisite: FNH 250 and one of BIOS 201, BIOS 202.</td>
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<tr>
<td>FNH_V 350-002</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>Fundamentals of Nutrition: 2. Fundamentals of energy and macronutrient metabolism. [3-0-0] Prerequisite: FNH 250 and one of BIOS 201, BIOS 202.</td>
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<tr>
<td>FNH_V 351-001</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Vitamins, Minerals, and Health: 1. Vitamins and mineral nutrition and their role in maintaining and promoting health. [3-0-0] Prerequisite: FNH 250 and one of BIOS 201, BIOS 202.</td>
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<tr>
<td>FNH_V 351-002</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Vitamins, Minerals, and Health: 2. Vitamins and mineral nutrition and their role in maintaining and promoting health. [3-0-0] Prerequisite: FNH 250 and one of BIOS 201, BIOS 202.</td>
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<tr>
<td>FNH_V 351-091</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Nutrition Assessment: 1. The use of dietary, anthropometric, biochemical, and related information for the assessment of nutritional status of individuals and populations. Prerequisite: FNH 250.</td>
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<tr>
<td>FNH_V 351-092</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Nutrition Assessment: 2. The use of dietary, anthropometric, biochemical, and related information for the assessment of nutritional status of individuals and populations. Prerequisite: FNH 250.</td>
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<tr>
<td>FNH_V 351-001</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>International Nutrition: 1. Conceptualization and scientific analyses of global problems in food and nutrition; complexities of food habits and nutritional in various cultures around the world. [3-0-0] Online Learning</td>
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<tr>
<td>FNH_V 351-002</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>International Nutrition: 2. Conceptualization and scientific analyses of global problems in food and nutrition; complexities of food habits and nutritional in various cultures around the world. [3-0-0] Online Learning</td>
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<tr>
<td>FNH_V 370-001</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Research Methods in Human Nutrition: 1. Process of research; principles and processes in utilizing research. Restricted to students in majors in the FNH program. Prerequisite: FNH 250 and either (a) BIOS 252 or (b) BIOS 300 or (c) EPSE 482 or (d) FRST 231 or (e) STAT 200.</td>
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<td>FNH_V 370-002</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Research Methods in Human Nutrition: 2. Process of research; principles and processes in utilizing research. Restricted to students in majors in the FNH program. Prerequisite: FNH 250 and either (a) BIOS 252 or (b) BIOS 300 or (c) EPSE 482 or (d) FRST 231 or (e) STAT 200.</td>
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<tr>
<td>FNH_V 375-201</td>
<td>W2</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Nutrition Care I: 1. 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: FNH 250.</td>
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<tr>
<td>FNH_V 380-D01</td>
<td>W1</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>Professional Dietetics Practice I: 1. Process of research; principles and processes in utilizing research. Restricted to students in majors in the FNH program. Prerequisite: FNH 250.</td>
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<tr>
<td>FNH_V 398-001</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Research Methods in Human Nutrition: 1. Process of research; principles and processes in utilizing research. Restricted to students in majors in the FNH program. Prerequisite: FNH 250 and either (a) BIOS 252 or (b) BIOS 300 or (c) EPSE 482 or (d) FRST 231 or (e) STAT 200.</td>
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<tr>
<td>FNH_V 398-002</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Research Methods in Human Nutrition: 2. Process of research; principles and processes in utilizing research. Restricted to students in majors in the FNH program. Prerequisite: FNH 250 and either (a) BIOS 252 or (b) BIOS 300 or (c) EPSE 482 or (d) FRST 231 or (e) STAT 200.</td>
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<tr>
<td>FNH_V 401-001</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Advanced in Plant and Cell-Based Foods: 1. Examination of meat, egg, fish, and dairy analogs made using plants, recombinant proteins, and cell cultures, from the molecular to the macroscopic level. Relation of molecular details to physical and sensory properties. Prerequisite: FNH 250 and 3rd-year standing or higher; or permission from the instructor.</td>
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<tr>
<td>FNH_V 401-002</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Advanced in Plant and Cell-Based Foods: 1. Examination of meat, egg, fish, and dairy analogs made using plants, recombinant proteins, and cell cultures, from the molecular to the macroscopic level. Relation of molecular details to physical and sensory properties. Prerequisite: FNH 250 and 3rd-year standing or higher; or permission from the instructor.</td>
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<tr>
<td>FNH_V 403-001</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Food Laws, Regulations and Quality Assurance: 1. Examination of meat, egg, fish, and dairy analogs made using plants, recombinant proteins, and cell cultures, from the molecular to the macroscopic level. Relation of molecular details to physical and sensory properties. Health and sustainability impacts. Prerequisite: FNH 250 and 3rd-year standing or higher; or permission from the instructor.</td>
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<tr>
<td>FNH_V 403-002</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Food Laws, Regulations and Quality Assurance: 1. Examination of meat, egg, fish, and dairy analogs made using plants, recombinant proteins, and cell cultures, from the molecular to the macroscopic level. Relation of molecular details to physical and sensory properties. Health and sustainability impacts. Prerequisite: FNH 250 and 3rd-year standing or higher; or permission from the instructor.</td>
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<tr>
<td>FNH_V 403-003</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Food Laws, Regulations and Quality Assurance: 1. Examination of meat, egg, fish, and dairy analogs made using plants, recombinant proteins, and cell cultures, from the molecular to the macroscopic level. Relation of molecular details to physical and sensory properties. Health and sustainability impacts. Prerequisite: FNH 250 and 3rd-year standing or higher; or permission from the instructor.</td>
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<tr>
<td>FNH_V 403-004</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Food Laws, Regulations and Quality Assurance: 1. Examination of meat, egg, fish, and dairy analogs made using plants, recombinant proteins, and cell cultures, from the molecular to the macroscopic level. Relation of molecular details to physical and sensory properties. Health and sustainability impacts. Prerequisite: FNH 250 and 3rd-year standing or higher; or permission from the instructor.</td>
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<tr>
<td>FNH_V 403-005</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Food Laws, Regulations and Quality Assurance: 1. Examination of meat, egg, fish, and dairy analogs made using plants, recombinant proteins, and cell cultures, from the molecular to the macroscopic level. Relation of molecular details to physical and sensory properties. Health and sustainability impacts. Prerequisite: FNH 250 and 3rd-year standing or higher; or permission from the instructor.</td>
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<tr>
<td>FNH_V 403-006</td>
<td>W1</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Food Laws, Regulations and Quality Assurance: 1. Examination of meat, egg, fish, and dairy analogs made using plants, recombinant proteins, and cell cultures, from the molecular to the macroscopic level. Relation of molecular details to physical and sensory properties. Health and sustainability impacts. Prerequisite: FNH 250 and 3rd-year standing or higher; or permission from the instructor.</td>
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</table>
**FNH 440-001**  
**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 UFS 252, STAT 206, STAT 301, 302, 303 or equivalent background in statistics.  
In Person Learning  
Wed  
8:00 a.m. - 10:00 a.m.

**FNH 440-004**  
**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 UFS 252, STAT 206, STAT 301, 302, 303 or equivalent background in statistics.  
In Person Learning  
Wed  
12:00 p.m. - 2:00 p.m.

**FNH 404-201**  
**Food Safety and Quality Management**  
W2  
Food production plant sanitation, environmental monitoring, global food safety standards, and food plant internal audits. Prerequisite: FNH 405.  
In Person Learning  
Wed  
1:00 p.m. - 4:00 p.m.

**FNH 406-201**  
**Microbiology of Food and Beverage Fermentation**  
W1  
Fermentation methods, mechanisms and microbiology of non-alcoholic fermented foods and alcohol-free fermented beverages (beer, cider, sake). Prerequisite: One of MCB 211, MCB 212, BIOC 201, BIOC 204, BIOC 205. Third-year standing.  
Multi-access Learning  
Man Wed Fri  
10:00 a.m. - 11:00 a.m.

**FNH 413-001**  
**Food Safety**  
W1  
Microbial and chemical factors that underlie public health challenges in the food supply chain; prevalence and nature of organisms which cause foodborne disease; approaches and technologies for improvement of food safety. Prerequisite: One of MCB 211, MCB 212, OHBM 201, FNH 313.  
In Person Learning  
Tue Thu  
2:00 p.m. - 3:10 p.m.

**FNH 413-002**  
**Food Safety**  
W1  
Microbial and chemical factors that underlie public health challenges in the food supply chain; prevalence and nature of organisms which cause foodborne disease; approaches and technologies for improvement of food safety. Prerequisite: One of MCB 211, MCB 212, OHBM 201, FNH 313.  
In Person Learning  
Arranged  
Arranged

**FNH 414-101**  
**Sustainability in the Food Industry**  
W1  
Regenerative sustainability and the sustainability nexus; health and environmental impacts of the agriculture and food industry; environmental performance indicators and management systems; approaches to enhance sustainability in the food industry. Prerequisite: One of FNH 209, FNH 213.  
In Person Learning  
Mon  
1:00 p.m. - 4:00 p.m.

**FNH 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 one of FNH 415, FOOD 512, or WIC 515. Prerequisite: At least third-year standing in the Faculty of Land and Food Systems.  
In Person Learning  
Tue Thu  
5:00 p.m. - 6:10 p.m.

**FNH 419-001**  
**Interfacial Phoenomena**  
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: FHMS 300 or equivalent. Equivalency: CHBE 447.  
In Person Learning  
Arranged  
Arranged

**FNH 425-001**  
**Food Science Laboratory III**  
W1-2  
Integrated course designed to illustrate principles of research and product development in the food industry. [3-0-0] Prerequisite: All of FHMS 305, FHMS 310.  
In Person Learning  
Fri  
1:00 p.m. - 4:00 p.m.

**FNH 440-001**  
**Food Service Systems Management**  
W1  
Management responsibilities in quantity food production with emphasis on menuplanning, purchasing and service. Includes planning and equipping food services. Restricted to students in the Dietetics Major. Note: Course requirements are required to possess a FoodSafe II certificate. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: FHMS 340.  
In Person Learning  
Mon  
1:00 p.m. - 3:10 p.m.

**FNH 440-002**  
**Food Service Systems Management**  
W1  
Management responsibilities in quantity food production with emphasis on menuplanning, purchasing and service. Includes planning and equipping food services. Restricted to students in the Dietetics Major. Note: Course requirements are required to possess a FoodSafe II certificate. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: FHMS 340.  
In Person Learning  
Tue Thu  
3:10 p.m. - 4:20 p.m.

**FNH 451-002**  
**Nutrient Metabolism and Implications for Health**  
W2  
Nutritional needs of athletes, including energy, carbohydrate and protein; hydration; pre-and post-workout nutrition, weight management and body composition issues; organic acids; sports-specific guidelines; and special athlete populations. Prerequisite: All of FHMS 340, FHMS 341.  
In Person Learning  
Tue Thu  
5:30 p.m. - 7:40 p.m.

**FNH 455-001**  
**Applied International Nutrition**  
W2  
Applying nutrition concepts and principles in addressing problems of malnutrition and food insecurity in international settings. Basic of developing culturally acceptable, sustainable nutrition intervention programs. This course is not eligible for Credit/D/Fail grading. [5-0-0] Prerequisite: FNH 355.  
In Person Learning  
Tue Thu  
12:00 p.m. - 2:20 p.m.

**FNH 470-001**  
**Nutrition Care II**  
W1  
Nutritional needs of athletes, including energy, carbohydrate and protein; hydration; pre-and post-workout nutrition, weight management and body composition issues; organic acids; sports-specific guidelines; and special athlete populations. Prerequisite: All of FHMS 340, FHMS 341.  
In Person Learning  
Wed  
9:00 a.m. - 10:30 a.m.

**FNH 472-001**  
**Maternal and Fetal Nutrition**  
W1  
Fetal adaptations, maternal metabolism, and special issues during pregnancy that may influence the maternal-fetal nutritional supply. [3-0-0] Prerequisite: FHMS 350. Third-year standing.  
In Person Learning  
Tue Thu  
12:00 p.m. - 2:20 p.m.

**FNH 473-001**  
**Applied Public Health Nutrition**  
W2  
Nutritional needs of athletes, including energy, carbohydrate and protein; hydration; pre-and post-workout nutrition, weight management and body composition issues; organic acids; sports-specific guidelines; and special athlete populations. Prerequisite: All of FHMS 340, FHMS 341.  
In Person Learning  
Fri  
12:00 p.m. - 2:20 p.m.

**FNH 474-002**  
**Sport Nutrition**  
W2  
Nutritional needs of athletes, including energy, carbohydrate and protein; hydration; pre-and post-workout nutrition, weight management and body composition issues; organic acids; sports-specific guidelines; and special athlete populations. Prerequisite: All of FHMS 340, FHMS 341.  
In Person Learning  
Tue Thu  
2:00 p.m. - 3:30 p.m.

**FNH 475-002**  
**Nutrition Care III**  
W2  
Nutritional needs of athletes, including energy, carbohydrate and protein; hydration; pre-and post-workout nutrition, weight management and body composition issues; organic acids; sports-specific guidelines; and special athlete populations. Prerequisite: All of FHMS 340, FHMS 341.  
In Person Learning  
Wed  
11:00 a.m. - 12:30 p.m.

**FNH 477-001**  
**Nutrition and Disease Prevention**  
W2  
Evidence-based examination of the role of nutrition in the prevention of chronic disease. [3-0-0] Prerequisite: FHMS 350.  
In Person Learning  
Mon Wed Fri  
10:00 a.m. - 11:00 a.m.

**FNH 480-001**  
**Professional Dietetic Practice I**  
W1  
Skill development and application for practice education placements and dietetic practice settings, restricted to students in the Dietetics Major. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of FHMS 380, FHMS 381.  
In Person Learning  
Arranged  
Arranged

**FNH 480-002**  
**Professional Dietetic Practice II**  
W1  
Skill development and application for practice education placements and dietetic practice settings, restricted to students in the Dietetics Major. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of FHMS 380, FHMS 381.  
In Person Learning  
Wed  
1:30 p.m. - 4:10 p.m.
In Person Learning

FNH_V 482-201
482
201
Dietetics Practice Education Placement III
W1
Practice education placements in settings across British Columbia. Restricted to students in the Dietetics Major. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: FNH 481. In Person Learning Mon Tue Wed Thu Fri 9:00 a.m. - 5:00 p.m.

FNH_V 482-202
482
202
Dietetics Practice Education Placement III
W1
Practice education placements in settings across British Columbia. Restricted to students in the Dietetics Major. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: FNH 481. In Person Learning Mon Tue Wed Thu Fri 9:00 a.m. - 5:00 p.m.

FNH_V 483-101
483
101
Dietetics Practice Education Placement IV
W2
Practice education placements in settings across British Columbia. Restricted to students in the Dietetics Major. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: FNH 482. In Person Learning Mon Tue Wed Thu Fri 9:00 a.m. - 5:00 p.m.

FNH_V 483-102
483
102
Dietetics Practice Education Placement IV
W2
Practice education placements in settings across British Columbia. Restricted to students in the Dietetics Major. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: FNH 482. In Person Learning Mon Tue Wed Thu Fri 9:00 a.m. - 5:00 p.m.

FNH_V 490-001
490
001
Advanced Topics in Food, Nutrition, and Health
W1
Analysis and interpretation of current issues in food, nutrition and health. Prerequisite: 3rd year standing or higher. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

FNH_V 490-001
490
001
Advanced Topics in Food, Nutrition, and Health
W1
Analysis and interpretation of current issues in food, nutrition and health. Prerequisite: 3rd year standing or higher. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

FNH_V 497-A_001
497
A_001
Directed Studies in Food, Nutrition and Health
W1
Design and execution of an experimental/analytical research project leading to preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year. In Person Learning Arranged Arranged

FNH_V 497-A_012
497
A_012
Directed Studies in Food, Nutrition and Health
W2
Design and execution of an experimental/analytical research project leading to preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year. In Person Learning Arranged Arranged

FNH_V 497-B_011
497
B_011
Directed Studies in Food, Nutrition and Health
W1
Design and execution of an experimental/analytical research project leading to preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year. In Person Learning Arranged Arranged

FNH_V 497-B_012
497
B_012
Directed Studies in Food, Nutrition and Health
W2
Design and execution of an experimental/analytical research project leading to preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year. In Person Learning Arranged Arranged

FNH_V 497-C_001
497
C_001
Directed Studies in Food, Nutrition and Health
W1-2
Design and execution of an experimental/analytical research project leading to preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year. In Person Learning Arranged Arranged

FNH_V 497-C_011
497
C_011
Directed Studies in Food, Nutrition and Health
W1
Design and execution of an experimental/analytical research project leading to preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year. In Person Learning Arranged Arranged

FNH_V 497-C_012
497
C_012
Directed Studies in Food, Nutrition and Health
W2
Design and execution of an experimental/analytical research project leading to preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year. In Person Learning Arranged Arranged

FNH_V 499-001
499
001
Undergraduate Thesis
W1-2
Design and execution of an experimental/analytical research project leading to preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year. In Person Learning Arranged Arranged

FNH_V 499-101
499
101
Undergraduate Thesis
W1
Design and execution of an experimental/analytical research project leading to preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year. In Person Learning Arranged Arranged

FNH_V 499-102
499
102
Undergraduate Thesis
W2
Design and execution of an experimental/analytical research project leading to preparation of a thesis. Prerequisite: Approval of a program advisor; consult before the end of classes in third year. In Person Learning Arranged Arranged

FNIS_V 100-A_001
100
A_001
Indigenous Foundations
W1
The cultural, historical, political, economic and social/legal issues that inform the experiences of Indigenous peoples in Canada, examined from both Indigenous and non-Indigenous perspectives. Credit will be granted for only one of FNIS 100, FNSP 100, or FNSP 200. Restricted to Undergraduate Students. In Person Learning Mon Wed 2:00 p.m. - 3:30 p.m.

FNIS_V 210-001
210
001
Indigenous Politics and Self-Determination
W1
The cultural, historical, political, economic, and gender dynamics that structure the relationship between Indigenous peoples and the state in Canada. Indigenous self-determination struggles in relation to constitutional recognition, self-government, land claims, and economic development. Credit will be granted for only one of FNSP 200, FNS 210, or FNSP 210. Restricted to Undergraduate Students. Recommended pre-requisite: FNSP 100. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

FNIS_V 220-001
220
001
Representations and Indigenous Cultural Politics
W2
Representations, identity, and cultural politics through Indigenous literature, film, and the visual arts; the relationship between these sites of cultural production and the self-determination struggles of Indigenous peoples. Credit will be granted for only one of FNSP 200, FNS 210, or FNSP 210. Restricted to Undergraduate Students. Recommended pre-requisite: FNS 100. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

FNIS_V 300-001
300
001
Writing First Nations
W2
The writing-intensive course examining approaches to writing Indigenous research: Representation & the Other; Indigenous critiques of research & representation; Indigenous, feminist and cultural studies approaches to writing ethnography, oral history, and related research methods. Credit will be granted for only one of FNS 200 or FNSP 200. In Person Learning Mon Wed 2:00 p.m. - 3:30 p.m.

FNIS_V 310-001
310
001
Critical Indigenous Theory Seminar
W1
Critical Indigenous theory seminar; examining critical and conceptual paradigms in the humanities, social sciences, performing arts, and Indigenous studies into approaches in First Nations/Indigenous Studies, including identity construction, political and cultural self-determination, representation, essentialism/authenticity, ethics, and decolonization. Credit will be granted for only one of FNS 300 or FNSP 300. Restricted to Undergraduate Students. In Person Learning Mon Wed 2:00 p.m. - 3:30 p.m.
### FNIS_V 501-001
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<td>Special Topics</td>
<td>501</td>
<td>C, C_001</td>
<td>Special Topics</td>
<td>Topics will vary from year to year. Consult the departmental website: <a href="http://fnsp.arts.ubc.ca">http://fnsp.arts.ubc.ca</a>. Restricted to Undergraduate Students.</td>
<td>Prerequisite: One of FNIS 100, FNIS 210, FNIS 220, FNIS 310, FNIS 320, FNIS 400, FNIS 401. This course is not eligible for Credit/D/Fail grading.</td>
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### FNIS_V 454-001
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<td>FNIS_V 454</td>
<td>Indigenous New Media</td>
<td>454</td>
<td>001</td>
<td>Special Topics</td>
<td>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.</td>
<td>Prerequisite: One of FNIS 100, FNIS 210, FNIS 220, FNIS 310, FNIS 320, FNIS 400, FNIS 401. This course is not eligible for Credit/D/Fail grading.</td>
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### FNIS_V 515-101
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<td>Indigenous Two-Spirit and Queer Studies</td>
<td>515</td>
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<td>Special Topics</td>
<td>Topics will vary from year to year. Consult the departmental website: <a href="http://fnsp.arts.ubc.ca">http://fnsp.arts.ubc.ca</a>. Restricted to Undergraduate Students.</td>
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### FNIS_V 600-001
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<td>FOOD_V 600</td>
<td>Food Science Seminar</td>
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<td>FOOD_V 519</td>
<td>Interfacial Phenomena</td>
<td>In Person Learning</td>
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<tr>
<td>FOOD_V 520</td>
<td>Advances in Food Analysis</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>FOOD_V 521</td>
<td>Advances in Food Microbiology</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>FOOD_V 522</td>
<td>Advances in Food Microbiology</td>
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<td>FOOD_V 523</td>
<td>Advances in Food Chemistry</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>FOOD_V 524</td>
<td>Advances in Food Processing</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>FOOD_V 525</td>
<td>Advances in Food Technology</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>FOOD_V 527</td>
<td>Special Topics in Food Science</td>
<td>W2</td>
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<td>FOOD_V 528</td>
<td>International Food Laws and Regulations</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>FOOD_V 529</td>
<td>Laboratory Methods in Sensory Evaluation</td>
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<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>FOOD_V 530</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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Credit will be granted for only one of FNH 419 and FOOD 519. This course is not eligible for Credit/D/Fail grading. Strongly recommended: MATH 101, PHYS 108, and CHEM 154. Equivalency: CHBE 487.
<table>
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<th>Course Title</th>
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<th>Delivery Mode</th>
<th>Credit Hours</th>
<th>Campus</th>
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<tr>
<td>FOOD V 549 A, 549 B, 549 C</td>
<td>Forest Business Enterprise (Ph.D.)</td>
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<td>Online Learning</td>
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<td>Arranged</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>FOOD V 549 A</td>
<td>Harvesting Systems and Forest Access</td>
<td></td>
<td>In Person Learning</td>
<td>W2</td>
<td>Arranged</td>
<td>The credit value for this course will be determined in consultation with the student prior to the registration.</td>
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<td>Forest Business Enterprise (Ph.D.)</td>
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<td>W2</td>
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The mechanics and productivity of a broad range of forest harvesting systems combined with topics on forest access. Prerequisite: One of ECON 101, FST 101, Consensus: FST 318.

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The mechanics and productivity of a broad range of forest harvesting systems combined with topics on forest access. Prerequisite: One of ECON 101, FST 101, Consensus: FST 318.

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<td>FOOD V 549 A</td>
<td>Harvesting Systems and Forest Access</td>
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<td>FOOD V 549 A</td>
<td>Harvesting Systems and Forest Access</td>
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<td>W1</td>
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</table>

The mechanics and productivity of a broad range of forest harvesting systems combined with topics on forest access. Prerequisite: One of ECON 101, FST 101, Consensus: FST 318.
FOPR_V 362-001
Harvesting Systems and Forest Access
W2
The mechanics and productivity of a broad range of forest harvesting systems combined with topics in forest access. (3-0-1) Prerequisites: One of ECON 101, FRST 101. Complementary: FRST 106.
In Person Learning
Aranged
Aranged

FOPR_V 388-001
Analytical Methods in Forest Hydrology
W1
Analytical methods in forest hydrology and their applications in the planning of forest operations with a focus on the hydrologic and hydraulic design procedures for stream crossings. (3-2) Complementary: FOPR 164.
In Person Learning
Mon WedFri
10:00 a.m. - 11:00 a.m.

FOPR_V 388-013
Analytical Methods in Forest Hydrology
W1
Analytical methods in forest hydrology and their applications in the planning of forest operations with a focus on the hydrologic and hydraulic design procedures for stream crossings. (3-2) Complementary: FOPR 164.
In Person Learning
Thu
3:00 p.m. - 4:00 p.m.

FOPR_V 464-001
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 extended stakeholder. (2-2) Prerequisite: FOPR 362.
In Person Learning
Tue
8:00 a.m. - 10:00 a.m.

FOPR_V 464-010
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 extended stakeholder. (2-2) Prerequisite: FOPR 362.
In Person Learning
Tue
1:00 p.m. - 3:30 p.m.

FRE_V 230-002
Introductory Topics in Food and Resource Economics
W2
Analysis and interpretation of current issues in food and resource economics. Topics will vary from year to year. Prerequisite: One of ECON 101, ECON 310.
In Person Learning
Mon Wed
10:00 a.m. - 11:30 a.m.

FRE_V 290-001
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 310.
In Person Learning
Tue
1:00 p.m. - 2:00 p.m.

FRE_V 301-001
Small Business Management in Agri-food Industries
W2
Emphasizes the building of a business plan by exploring topics such as the planning process and financing, marketing and human resource concepts, as applied in agri-food business, domestically and internationally. (3-0-1) Prerequisite: One of ECON 101, ECON 310.
In Person Learning
Mon Wed
8:30 a.m. - 10:00 a.m.

FRE_V 302-001
Small Business Management in Agri-food Industries
W2
Emphasizes the building of a business plan by exploring topics such as the planning process and financing, marketing and human resource concepts, as applied in agri-food business, domestically and internationally. (3-0-1) Prerequisite: One of ECON 101, ECON 310.
In Person Learning
Fri
8:00 a.m. - 10:00 a.m.

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 virtuous invisible markets), marketing and trade institutions such as the World Trade Organization (WTO), regulations, issues specific to developing nations, and case studies. (3-0-1) Prerequisite: One of ECON 101, ECON 310.
In Person Learning
Tue Thu
3:00 p.m. - 5:00 p.m.

FRE_V 326-001
Empirical Methods for Food and Resource Economics
W1
Introductions to empirical methods with applications for problems in food and resource economics; standard linear regression and methods to address data deficiencies; interpretation of regression results for forecasting and policy analysis. This course is not eligible for Credit/D/Fail grading.
Prerequisites: One of LTS 252, STAT 305, BIOL 360.
In Person Learning
Tue Thu
2:00 p.m. - 3:30 p.m.

FRE_V 340-001
International Agricultural Development
W1
Characteristics, processes and sources of economic growth, role of agricultural and resource sectors in economic growth, analysis of market and input markets in those sectors, policy failures, tools for empirical analysis of rural markets, growth, and the environment. Prerequisite: One of ECON 101, ECON 310.
In Person Learning
Mon Wed
8:30 a.m. - 11:00 a.m.

FRE_V 374-001
Land and Resource Economics
W1
Willingness to pay, opportunity costs, externalities, and market failures in natural resource markets; dynamic efficiency, economic applications including forestry, marine, forest, land, water, and biodiversity. (3-0) Prerequisite: One of ECON 101, ECON 310. Equivalency: ECON374.
In Person Learning
Tue Thu
12:30 p.m. - 2:00 p.m.

FRE_V 385-002
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. (3-0-1) Prerequisites: One of ECON 101, ECON 310 and one of LTS 252, FRST 101. STAG 205.
In Person Learning
Fri
4:00 p.m. - 7:00 p.m.

FRE_V 385-010
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. (3-0-1) Prerequisites: One of ECON 101, ECON 310 and one of LTS 252, KCA 360, FST 210, STAG 205.
In Person Learning
Corequisite: FRE_V 201.

FRE_V 394-001
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.
Prerequisites: One of COMM 291, ECON 310. Equivalency: COMM 304.
In Person Learning
Mon Wed
8:00 a.m. - 9:30 a.m.

FRE_V 394-010
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.
Prerequisites: One of COMM 291, ECON 310. Equivalency: COMM 304.
In Person Learning
Corequisite: FRE_V 201.

FRE_V 420-002
The Economics of International Trade and the Environment
W2
The mechanics and productivity of a broad range of forest harvesting systems combined with topics in forest access. (3-0-1) Prerequisites: One of ECON 101, ECON 310.
In Person Learning
Mon Wed
11:00 a.m. - 1:00 p.m.

FRE_V 460-001
Economics of Food Consumption
W2
Microeconomics of consumer decisions and public policy in food contexts; foodborne illness; economic causes and consequences of obesity; sin taxes and prohibitions; information campaigns and advertising; labeling, food waste and ethics. Prerequisite: One of ECON 101, ECON 310.
In Person Learning
Mon Wed
2:00 p.m. - 3:30 p.m.

FRE_V 474-001
Causal Inference in the Economics of Natural Resource Conservation
W2
Evaluating causal relationships in natural resource economics; applied data analysis, econometrics, counterfactual thinking, and applications to the economics of: natural resource conservation, species loss and extinction, protected areas, international trade of wildlife products, and endangered species legislation. Prerequisites: One of LTS 252, STAT 305, KCA 360, ECON 312, COMM 291, FST 210 and one of ECON 101, ECON 310.
In Person Learning
Tue Thu
10:30 a.m. - 12:30 p.m.

FRE_V 474-011
Causal Inference in the Economics of Natural Resource Conservation
W2
Evaluating causal relationships in natural resource economics; applied data analysis, econometrics, counterfactual thinking, and applications to the economics of: natural resource conservation, species loss and extinction, protected areas, international trade of wildlife products, and endangered species legislation. Prerequisites: One of LTS 252, STAT 305, KCA 360, ECON 312, COMM 291, FST 210 and one of ECON 101, ECON 310.
In Person Learning
Wed
3:30 p.m. - 5:30 p.m.
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Dates</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
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<tr>
<td>FRE_V 490-001</td>
<td>Current Issues in Food and Resource Economics W1</td>
<td>[3-0]</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<td>FRE_V 490-002</td>
<td>Current Issues in Food and Resource Economics W2</td>
<td>[3-0]</td>
<td>10:00 a.m. - 11:30 a.m.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<td>FRE_V 490-L01</td>
<td>Current Issues in Food and Resource Economics W2</td>
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<td>FRE_V 490-LXT</td>
<td>Current Issues in Food and Resource Economics W1</td>
<td>[3-0]</td>
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<td>FRE_V 500-001</td>
<td>MSc Seminar W1</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>Tue Thu</td>
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<td>FRE_V 500-002</td>
<td>MSc Seminar W2</td>
<td>Pass/Fail</td>
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<td>Tue Thu</td>
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<tr>
<td>FRE_V 500-003</td>
<td>MSc Seminar W1-2</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<tr>
<td>FRE_V 515-002</td>
<td>Agricultural and Resource Policy Analysis - Policy and Project Evaluation Tools W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<tr>
<td>FRE_V 516-001</td>
<td>Financial and Marketing Management in Agri-food Industries W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<tr>
<td>FRE_V 516-002</td>
<td>Financial and Marketing Management in Agri-food Industries W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<td>FRE_V 516-003</td>
<td>Financial and Marketing Management in Agri-food Industries 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>FRE_V 520-003</td>
<td>Survey Design and Data Analysis W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
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<tr>
<td>FRE_V 521-001</td>
<td>Professional Masters Seminar W1-2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<td>FRE_V 521-002</td>
<td>Topics in Food and Resource Economics W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<td>FRE_V 521-003</td>
<td>Topics in Food and Resource Economics W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>Tue Thu</td>
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<td>FRE_V 521-004</td>
<td>Topics in Food and Resource Economics W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
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<td>FREN 101-001</td>
<td>101 001</td>
<td>Mon Wed 10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>FREN 101-001</td>
<td>101 001</td>
<td>Wed 11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<td>FREN 101-001</td>
<td>101 001</td>
<td>Fri 1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<td>FREN 101-001</td>
<td>101 001</td>
<td>Mon Wed 3:00 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
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<td>FREN 101-001</td>
<td>101 001</td>
<td>Wed 5:00 p.m. - 6:30 p.m.</td>
<td>In Person Learning</td>
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<td>FREN 101-001</td>
<td>101 001</td>
<td>Fri 6:00 p.m. - 7:30 p.m.</td>
<td>In Person Learning</td>
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The course is aligned with level A1 objectives of the CEFR. Credit will be granted for only one of FREN 101 or FREN 103.
<table>
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<tr>
<th>Course Code</th>
<th>Type</th>
<th>Level</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Credits</th>
<th>Notes</th>
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<tr>
<td>FREN 101-109</td>
<td>In Person Learning</td>
<td>Beginner's French I</td>
<td>W1</td>
<td>Basic vocabulary, the rudiments of grammar and familiarization with cultures of the French-speaking world. This course is aligned with level A2 objectives of the CEFR. Credit will be granted for only one of FREN 201 or FREN 103.</td>
<td>Tue Thu</td>
<td>12:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>FREN 101-110</td>
<td>In Person Learning</td>
<td>Beginner's French I</td>
<td>W1</td>
<td>Basic vocabulary, the rudiments of grammar and familiarization with cultures of the French-speaking world. This course is aligned with level A2 objectives of the CEFR. Credit will be granted for only one of FREN 201 or FREN 103.</td>
<td>Tue Thu</td>
<td>3:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>FREN 101-111</td>
<td>In Person Learning</td>
<td>Beginner's French I</td>
<td>W1</td>
<td>Basic vocabulary, the rudiments of grammar and familiarization with cultures of the French-speaking world. This course is aligned with level A2 objectives of the CEFR. Credit will be granted for only one of FREN 201 or FREN 103.</td>
<td>Tue Thu</td>
<td>3:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>FREN 101-112</td>
<td>In Person Learning</td>
<td>Beginner's French I</td>
<td>W1</td>
<td>Basic vocabulary, the rudiments of grammar and familiarization with cultures of the French-speaking world. This course is aligned with level A2 objectives of the CEFR. Credit will be granted for only one of FREN 201 or FREN 103.</td>
<td>Tue Thu</td>
<td>5:00 p.m. - 6:30 p.m.</td>
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<tr>
<td>FREN 101-113</td>
<td>In Person Learning</td>
<td>Beginner's French I</td>
<td>W1</td>
<td>Basic vocabulary, the rudiments of grammar and familiarization with cultures of the French-speaking world. This course is aligned with level A2 objectives of the CEFR. Credit will be granted for only one of FREN 201 or FREN 103.</td>
<td>Tue Thu</td>
<td>6:30 p.m. - 8:00 p.m.</td>
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<tr>
<td>FREN 101-W01</td>
<td>In Person Learning</td>
<td>Beginner's French I</td>
<td>W1</td>
<td>Basic vocabulary, the rudiments of grammar and familiarization with cultures of the French-speaking world. This course is aligned with level A2 objectives of the CEFR. Credit will be granted for only one of FREN 201 or FREN 103.</td>
<td>Tue Thu</td>
<td>6:30 p.m. - 8:00 p.m.</td>
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<tr>
<td>FREN 102-201</td>
<td>In Person Learning</td>
<td>Beginner's French II</td>
<td>W2</td>
<td>A continuation of FREN 101. This course is aligned with level A2 objectives of the CEFR. Credits will be granted for only one of FREN 102 or FREN 103. Recommended prerequisite: FREN 101. Hybrid Learning</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>FREN 102-202</td>
<td>In Person Learning</td>
<td>Beginner's French II</td>
<td>W2</td>
<td>A continuation of FREN 101. This course is aligned with level A2 objectives of the CEFR. Credits will be granted for only one of FREN 102 or FREN 103. Recommended prerequisite: FREN 101.</td>
<td>Mon Wed Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>FREN 102-203</td>
<td>In Person Learning</td>
<td>Beginner's French II</td>
<td>W2</td>
<td>A continuation of FREN 101. This course is aligned with level A2 objectives of the CEFR. Credits will be granted for only one of FREN 102 or FREN 103. Recommended prerequisite: FREN 101.</td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>FREN 102-204</td>
<td>In Person Learning</td>
<td>Beginner's French II</td>
<td>W2</td>
<td>A continuation of FREN 101. This course is aligned with level A2 objectives of the CEFR. Credits will be granted for only one of FREN 102 or FREN 103. Recommended prerequisite: FREN 101.</td>
<td>Mon Wed Fri</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<td>FREN 102-205</td>
<td>In Person Learning</td>
<td>Beginner's French II</td>
<td>W2</td>
<td>A continuation of FREN 101. This course is aligned with level A2 objectives of the CEFR. Credits will be granted for only one of FREN 102 or FREN 103. Recommended prerequisite: FREN 101.</td>
<td>Mon Wed Fri</td>
<td>5:00 p.m. - 6:30 p.m.</td>
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<tr>
<td>FREN 102-206</td>
<td>In Person Learning</td>
<td>Beginner's French II</td>
<td>W2</td>
<td>A continuation of FREN 101. This course is aligned with level A2 objectives of the CEFR. Credits will be granted for only one of FREN 102 or FREN 103. Recommended prerequisite: FREN 101.</td>
<td>Mon Wed Fri</td>
<td>6:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>FREN 102-207</td>
<td>In Person Learning</td>
<td>Beginner's French II</td>
<td>W2</td>
<td>A continuation of FREN 101. This course is aligned with level A2 objectives of the CEFR. Credits will be granted for only one of FREN 102 or FREN 103. Recommended prerequisite: FREN 101.</td>
<td>Mon Wed Fri</td>
<td>8:00 p.m. - 9:00 p.m.</td>
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<tr>
<td>FREN 102-208</td>
<td>In Person Learning</td>
<td>Beginner's French II</td>
<td>W2</td>
<td>A continuation of FREN 101. This course is aligned with level A2 objectives of the CEFR. Credits will be granted for only one of FREN 102 or FREN 103. Recommended prerequisite: FREN 101.</td>
<td>Mon Wed Fri</td>
<td>10:00 p.m. - 11:00 p.m.</td>
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<tr>
<td>FREN 102-209</td>
<td>In Person Learning</td>
<td>Beginner's French II</td>
<td>W2</td>
<td>A continuation of FREN 101. This course is aligned with level A2 objectives of the CEFR. Credits will be granted for only one of FREN 102 or FREN 103. Recommended prerequisite: FREN 101.</td>
<td>Mon Wed Fri</td>
<td>11:00 p.m. - 12:00 a.m.</td>
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<td>FREN 102-210</td>
<td>In Person Learning</td>
<td>Beginner's French II</td>
<td>W2</td>
<td>A continuation of FREN 101. This course is aligned with level A2 objectives of the CEFR. Credits will be granted for only one of FREN 102 or FREN 103. Recommended prerequisite: FREN 101.</td>
<td>Mon Wed Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<td>FREN 102-W02</td>
<td>In Person Learning</td>
<td>Beginner's French II</td>
<td>W2</td>
<td>A continuation of FREN 101. This course is aligned with level A2 objectives of the CEFR. Credits will be granted for only one of FREN 102 or FREN 103. Recommended prerequisite: FREN 101.</td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>FREN 201-101</td>
<td>In Person Learning</td>
<td>Elementary French I</td>
<td>W1</td>
<td>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 111 or FREN 112. Recommended prerequisite: FREN 101.</td>
<td>Wed</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>FREN 201-102</td>
<td>In Person Learning</td>
<td>Elementary French I</td>
<td>W1</td>
<td>Continued improvement in listening, speaking, reading and writing. This course is aligned with level A2 objectives of the CEFR. Recommended prerequisite: one of FREN 111, FREN 112, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111.</td>
<td>Wed</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>FREN 201-103</td>
<td>In Person Learning</td>
<td>Elementary French I</td>
<td>W1</td>
<td>Continued improvement in listening, speaking, reading and writing. This course is aligned with level A2 objectives of the CEFR. Recommended prerequisite: one of FREN 111, FREN 112, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111.</td>
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<td>FREN 201-104</td>
<td>In Person Learning</td>
<td>Elementary French I</td>
<td>W1</td>
<td>Continued improvement in listening, speaking, reading and writing. This course is aligned with level A2 objectives of the CEFR. Recommended prerequisite: one of FREN 111, FREN 112, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111.</td>
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<td>FREN 201-105</td>
<td>In Person Learning</td>
<td>Elementary French I</td>
<td>W1</td>
<td>Continued improvement in listening, speaking, reading and writing. This course is aligned with level A2 objectives of the CEFR. Recommended prerequisite: one of FREN 111, FREN 112, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111.</td>
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<td>FREN 201-106</td>
<td>In Person Learning</td>
<td>Elementary French I</td>
<td>W1</td>
<td>Continued improvement in listening, speaking, reading and writing. This course is aligned with level A2 objectives of the CEFR. Recommended prerequisite: one of FREN 111, FREN 112, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111.</td>
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</table>
FREN V 201-107 FREN V 201 107 Elementary French I

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 11, FREN 102, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111

In Person Learning

Tue Thu

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

FREN V 201-108 FREN V 201 108 Elementary French I

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 11, FREN 102, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111

In Person Learning

Tue Thu

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

FREN V 201-109 FREN V 201 109 Elementary French I

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 11, FREN 102, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111

In Person Learning

Tue Thu

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

FREN V 201-110 FREN V 201 110 Elementary French I

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 11, FREN 102, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111

In Person Learning

Wed Fri

2:00 p.m. - 3:10 p.m.

FREN V 201-111 FREN V 201 111 Elementary French I

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 11, FREN 102, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111

In Person Learning

Arranged

Arranged

FREN V 202-201 FREN V 202 201 Elementary French II

A continuation of FREN 201. This course aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 202 or FREN 112. Equivalency: FREN 112

In Person Learning

Mon Wed Fri

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

FREN V 202-202 FREN V 202 202 Elementary French II

A continuation of FREN 201. This course aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 202 or FREN 112. Equivalency: FREN 112

In Person Learning

Mon Wed Fri

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

FREN V 202-203 FREN V 202 203 Elementary French II

A continuation of FREN 201. This course aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 202 or FREN 112. Equivalency: FREN 112

In Person Learning

Mon Wed Fri

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

FREN V 202-204 FREN V 202 204 Elementary French II

A continuation of FREN 201. This course aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 202 or FREN 112. Equivalency: FREN 112

In Person Learning

Mon Wed Fri

12:30 p.m. - 1:00 p.m.

FREN V 202-205 FREN V 202 205 Elementary French II

A continuation of FREN 201. This course aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 202 or FREN 112. Equivalency: FREN 112

In Person Learning

Arranged

Arranged

FREN V 202-206 FREN V 202 206 Elementary French II

A continuation of FREN 201. This course aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 202 or FREN 112. Equivalency: FREN 112

In Person Learning

Mon Wed Fri

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

FREN V 202-207 FREN V 202 207 Elementary French II

A continuation of FREN 201. This course aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 202 or FREN 112. Equivalency: FREN 112

In Person Learning

Tue Thu

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

FREN V 202-208 FREN V 202 208 Elementary French II

A continuation of FREN 201. This course aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 202 or FREN 112. Equivalency: FREN 112

In Person Learning

Tue Thu

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

FREN V 202-209 FREN V 202 209 Elementary French II

A continuation of FREN 201. This course aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 202 or FREN 112. Equivalency: FREN 112

In Person Learning

Tue Thu

2:00 p.m. - 3:30 p.m.

FREN V 202-202 W02 FREN V 202 202 Elementary French II

A continuation of FREN 201. This course aligned with level A2 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 202 or FREN 112. Equivalency: FREN 112

In Person Learning

Arranged

Arranged

FREN V 301-101 FREN V 301 101 Intermediate French I

Continued improvement in listening, speaking, reading and writing. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111

In Person Learning

Mon Wed Fri

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

FREN V 301-102 FREN V 301 102 Intermediate French I

Continued improvement in listening, speaking, reading and writing. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111

In Person Learning

Mon Wed Fri

10:00 a.m. - 11:30 a.m.

FREN V 301-103 FREN V 301 103 Intermediate French I

Continued improvement in listening, speaking, reading and writing. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111

In Person Learning

Mon Wed Fri

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

FREN V 301-104 FREN V 301 104 Intermediate French I

Continued improvement in listening, speaking, reading and writing. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111

In Person Learning

Mon Wed Fri

12:00 p.m. - 1:10 p.m.

FREN V 301-105 FREN V 301 105 Intermediate French I

Continued improvement in listening, speaking, reading and writing. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111

In Person Learning

Mon Wed Fri

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

FREN V 301-106 FREN V 301 106 Intermediate French I

Continued improvement in listening, speaking, reading and writing. This course is aligned with level B1 objectives of the CEFR. Recommended pre-requisites: one of FREN 11, FREN 201, or assignment based on placement test. Credit will be granted for only one of FREN 201 or FREN 111. Equivalency: FREN 111

In Person Learning

Mon Wed Fri

2:00 p.m. - 3:00 p.m.
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<tr>
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<th>Course Title</th>
<th>Lecture Time</th>
<th>Instructor</th>
<th>Notes</th>
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<td>FREN_V 301-W01</td>
<td>Intermediate French I</td>
<td>W1</td>
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<td>Intermediate French II</td>
<td>W2</td>
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<tr>
<td>FREN_V 303-202</td>
<td>Intermediate French II</td>
<td>W2</td>
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<tr>
<td>FREN_V 311-W01</td>
<td>Introduction to Literature in French</td>
<td>W1</td>
<td>Critical reading of foundational literary texts in French from genres of prose fiction, non-fiction, poetry, and theatre. Prerequisite: One of FREN 121, FREN 201.</td>
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<tr>
<td>FREN_V 311-W02</td>
<td>Introduction to Literature in French</td>
<td>W2</td>
<td>Critical reading of foundational literary texts in French from genres of prose fiction, non-fiction, poetry, and theatre. Prerequisite: One of FREN 121, FREN 201.</td>
<td>In Person Learning</td>
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<tr>
<td>FREN_V 321-101</td>
<td>Critical Writing</td>
<td>W1</td>
<td>Practical tools for university-level writing in French. Apply stylistic devices and stylistic techniques to form questions and arguments, analyze literary and cultural objects, and produce a variety of essay genres. Prerequisite: One of FREN 121, FREN 201.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN_V 321-W01</td>
<td>Critical Writing</td>
<td>W1</td>
<td>Practical tools for university-level writing in French. Apply stylistic devices and stylistic techniques to form questions and arguments, analyze literary and cultural objects, and produce a variety of essay genres. Prerequisite: One of FREN 121, FREN 201.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>FREN_V 321-W02</td>
<td>Critical Writing</td>
<td>W1</td>
<td>Practical tools for university-level writing in French. Apply stylistic devices and stylistic techniques to form questions and arguments, analyze literary and cultural objects, and produce a variety of essay genres. Prerequisite: One of FREN 121, FREN 201.</td>
<td>In Person Learning</td>
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<tr>
<td>FREN_V 331-101</td>
<td>Arts, Cultures and Society from the Middle Ages to the Revolution</td>
<td>W1</td>
<td>Exploration of early French culture and literature from the Middle Ages to the close of the Early Modern period and the French Revolution; the impact of society on the arts and vice versa. Prerequisite: One of FREN 311, FREN 321 and one of FREN 401, FREN 403.</td>
<td>In Person Learning</td>
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<tr>
<td>FREN_V 341-101</td>
<td>Arts, Cultures and Society from Antiquity to the Present Day</td>
<td>W2</td>
<td>Exploration of modern and contemporary French culture and literature from the early 20th century to the present day; the impact of society on the arts and vice versa. Prerequisite: One of FREN 311, FREN 321 and one of FREN 324, FREN 401.</td>
<td>In Person Learning</td>
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<tr>
<td>FREN_V 370-101</td>
<td>Introduction to French Linguistics</td>
<td>W1</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.</td>
<td>In Person Learning</td>
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<td>FREN 401-101</td>
<td>Upper-Intermediate French I</td>
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<td>FREN 401-103</td>
<td>Upper-Intermediate French I</td>
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<td>FREN 401-104</td>
<td>Upper-Intermediate French I</td>
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<td>FREN 501-001</td>
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<td>FREN 402-201</td>
<td>Upper-Intermediate French II</td>
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<td>Tue Thu</td>
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<td>FREN 402-202</td>
<td>Upper-Intermediate French II</td>
<td>2</td>
<td>Tue Thu</td>
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<tr>
<td>FREN 402-203</td>
<td>Upper-Intermediate French II</td>
<td>2</td>
<td>Tue Thu</td>
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<tr>
<td>FREN 402-204</td>
<td>Upper-Intermediate French II</td>
<td>2</td>
<td>Tue Thu</td>
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<td>FREN 402-205</td>
<td>Upper-Intermediate French II</td>
<td>2</td>
<td>Thu</td>
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<td>FREN 510-201</td>
<td>Enlightenment and Revolution: Studies in 18th-century French Literature</td>
<td>3</td>
<td>Tue Thu</td>
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<td>FREN 510-203</td>
<td>French Digital Culture</td>
<td>3</td>
<td>Thu</td>
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<td>FREN 511-201</td>
<td>Contemporary French Literature and Culture</td>
<td>3</td>
<td>Thu</td>
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<tr>
<td>FREN 511-203</td>
<td>African and Caribbean Francophone Literatures</td>
<td>3</td>
<td>Thu</td>
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<tr>
<td>FREN 512-201</td>
<td>Francophone Cinema</td>
<td>3</td>
<td>Thu</td>
<td></td>
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<tr>
<td>FREN 477-201</td>
<td>Contemporary Varieties of French</td>
<td>3</td>
<td>Thu</td>
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<tr>
<td>FREN 495-101</td>
<td>Research Seminar in French Literature and Culture</td>
<td>3</td>
<td>Thu</td>
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<td>FREN 499-101</td>
<td>Honours Essay</td>
<td>3</td>
<td>Thu</td>
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<tr>
<td>FREN 502-A_101</td>
<td>Studies in Sixteenth-Century French Literature</td>
<td>3</td>
<td>Thu</td>
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<tr>
<td>FREN 502-B_201</td>
<td>Studies in the French Enlightenment</td>
<td>3</td>
<td>Thu</td>
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</table>
The structure, diversity and development of trees and other plants, with emphasis on gymnosperms. Credit will be granted for only one of NRES 210 or FRST 210. [3-2-0] Prerequisite: One of FRST 200, NRES 200. Equivalency: NRES 210.

Forest classification and the application of silvics in forest management, including world forest classification systems, the Biogeoclimactic Ecosystem Classification system, and ecosystem diagnosis in the field. Credit will be granted for only one of NRES 211 or FRST 211. [3-2-0] Prerequisite: One of FRST 201, NRES 201. Equivalency: NRES 211.

Forest classification and the application of silvics in forest management, including world forest classification systems, the Biogeoclimactic Ecosystem Classification system, and ecosystem diagnosis in the field. Credit will be granted for only one of NRES 211 or FRST 211. [3-2-0] Prerequisite: One of FRST 201, NRES 201. Equivalency: NRES 211.

Forest classification and the application of silvics in forest management, including world forest classification systems, the Biogeoclimactic Ecosystem Classification system, and ecosystem diagnosis in the field. Credit will be granted for only one of NRES 211 or FRST 211. [3-2-0] Prerequisite: One of FRST 201, NRES 201. Equivalency: NRES 211.

Forest classification and the application of silvics in forest management, including world forest classification systems, the Biogeoclimactic Ecosystem Classification system, and ecosystem diagnosis in the field. Credit will be granted for only one of NRES 211 or FRST 211. [3-2-0] Prerequisite: One of FRST 201, NRES 201. Equivalency: NRES 211.

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 Lists: https://www.ucalgary.ca/faculties-colleges-and-schools/faculty-science/biological-sciences/biology/exclusion-lists. Credit will be granted for only one of NRES 200 or FRST 200. [3-2-0] Prerequisite: BIO 121. Equivalency: NRES 100.
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<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Instructor</th>
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<tr>
<td>FRST 232-101</td>
<td>231</td>
<td>201</td>
<td>Introduction to Biometrics</td>
<td>W2</td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>L01</td>
<td>W2</td>
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<tr>
<td>FRST 232-102</td>
<td>231</td>
<td>201</td>
<td>Introduction to Biometrics</td>
<td>W2</td>
<td>Mon Wed Fri</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>LA2</td>
<td>W2</td>
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<tr>
<td>FRST 232-103</td>
<td>231</td>
<td>201</td>
<td>Introduction to Biometrics</td>
<td>W2</td>
<td>Mon Wed Fri</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>L03</td>
<td>W2</td>
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<td>FRST 232-104</td>
<td>231</td>
<td>201</td>
<td>Introduction to Biometrics</td>
<td>W2</td>
<td>Mon Wed Fri</td>
<td>5:00 p.m. - 7:00 p.m.</td>
<td>LA4</td>
<td>W2</td>
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<td>FRST 232-105</td>
<td>231</td>
<td>201</td>
<td>Introduction to Biometrics</td>
<td>W2</td>
<td>Mon Wed Fri</td>
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<td>L05</td>
<td>W2</td>
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<td>FRST 232-106</td>
<td>231</td>
<td>201</td>
<td>Introduction to Biometrics</td>
<td>W2</td>
<td>Mon Wed Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<td>FRST 232-107</td>
<td>231</td>
<td>201</td>
<td>Introduction to Biometrics</td>
<td>W2</td>
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<td>2:00 p.m. - 4:00 p.m.</td>
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<td>FRST 232-108</td>
<td>231</td>
<td>201</td>
<td>Introduction to Biometrics</td>
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<td>5:00 p.m. - 7:00 p.m.</td>
<td>L08</td>
<td>W2</td>
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<td>FRST 232-109</td>
<td>231</td>
<td>201</td>
<td>Introduction to Biometrics</td>
<td>W2</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>L09</td>
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<td>FRST 232-110</td>
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<td>Introduction to Biometrics</td>
<td>W2</td>
<td>Mon Wed Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>L10</td>
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**Course Description:**

- **FRST 232**: An introduction to measurement of individual trees and stands. Use of aerial photographs, maps, and various measurement instruments. (3-2-0) Prerequisite: One of FRST 231, NRES 231 and one of FRST 232, NRES 232. Corequisite: One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: NRES 231.

- **FRST 231**: 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 FRST 231 or NRES 231. [3-2-0] Corequisite: One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: NRES 231.

- **NRES 232**: Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-sciences/credit-exclusion-lists. Credit will be granted for only one of NRES 231 or FRST 231. (3-2-2) Equivalency: NRES 232.

- **FRST 231**: Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-sciences/credit-exclusion-lists. Credit will be granted for only one of NRES 231 or FRST 231. (3-2-2) Equivalency: NRES 232.

- **FRST 231**: Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-sciences/credit-exclusion-lists. Credit will be granted for only one of NRES 231 or FRST 231. (3-2-2) Equivalency: NRES 232.

- **FRST 231**: Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-sciences/credit-exclusion-lists. Credit will be granted for only one of NRES 231 or FRST 231. (3-2-2) Equivalency: NRES 232.

- **FRST 231**: Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-sciences/credit-exclusion-lists. Credit will be granted for only one of NRES 231 or FRST 231. (3-2-2) Equivalency: NRES 232.

- **FRST 231**: Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-sciences/credit-exclusion-lists. Credit will be granted for only one of NRES 231 or FRST 231. (3-2-2) Equivalency: NRES 232.

- **FRST 231**: Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-sciences/credit-exclusion-lists. Credit will be granted for only one of NRES 231 or FRST 231. (3-2-2) Equivalency: NRES 232.

- **FRST 231**: Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-sciences/credit-exclusion-lists. Credit will be granted for only one of NRES 231 or FRST 231. (3-2-2) Equivalency: NRES 232.

- **FRST 231**: Basic theories of probability and statistics. Sampling distribution, methods of estimation and hypothesis testing; goodness of fit for independence; analysis of variance, regression and correlation. Consult the Faculty of Science Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-sciences/credit-exclusion-lists. Credit will be granted for only one of NRES 231 or FRST 231. (3-2-2) Equivalency: NRES 232.
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<th>Credit Hours</th>
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<td>FRST_V 248-101</td>
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FREST_V 310-308 FREST_V 304 208 Forest Stewardship in a Changing Climate W2
FREST_V 310-210 FREST_V 304 210 Forest Stewardship in a Changing Climate W2
FREST_V 305-101 FREST_V 305 101 Silviculture W1
FREST_V 307-101 FREST_V 307 101 Biotic Disturbances W1
FREST_V 310-101 FREST_V 310 101 Soil Biology W2
FREST_V 311-101 FREST_V 311 101 Plant Physiology I W1
FREST_V 311-110 FREST_V 311 110 Plant Physiology I W1
FREST_V 311-111 FREST_V 311 111 Plant Physiology I W1
FREST_V 311-113 FREST_V 311 113 Plant Physiology I W1
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FREST_V 318-201 FREST_V 318 201 Forest and Conservation Economics W2
FREST_V 318-101 FREST_V 318 101 Forest and Conservation Economics W2
FREST_V 318-102 FREST_V 318 102 Forest and Conservation Economics W2
FREST_V 318-103 FREST_V 318 103 Forest and Conservation Economics W2
FREST_V 320-101 FREST_V 320 101 Abiotic Disturbances: Fire and Climate W1
FREST_V 320-101 FREST_V 320 101 Abiotic Disturbances: Fire and Climate W1

Forests can provide natural solutions to climate change and social well-being through innovative management and reforestation including protection of native trees and soils, carbon and conservation financing, and emergence of value-added industries. For students without strong science backgrounds. Not available for credit to Faculty of Forestry students. [3-0-0]
Online Learning Arranged Arranged

Forests can provide natural solutions to climate change and social well-being through innovative management and reforestation including protection of native trees and soils, carbon and conservation financing, and emergence of value-added industries. For students without strong science backgrounds. Not available for credit to Faculty of Forestry students. [3-0-0]
Online Learning Arranged Arranged

Silviculture concepts and principles; stand dynamics, artificial and natural regeneration; cultural techniques for forest stand establishment and stand tending; silvicultural systems; decision making and development of prescriptions; connections to forest planning. [3-4] Prerequisite: One of FRST 201, NRES 203 and one of FRST 210, FRST 212, UNIP 445.
In Person Learning Mon Wed 12:00 p.m. - 1:30 p.m.

Silviculture concepts and principles; stand dynamics, artificial and natural regeneration; cultural techniques for forest stand establishment and stand tending; silvicultural systems; decision making and development of prescriptions; connections to forest planning. [3-4] Prerequisite: One of FRST 201, NRES 203 and one of FRST 210, FRST 212, UNIP 445.
In Person Learning Mon Wed 12:00 p.m. - 1:30 p.m.

Concepts of disturbance ecology with special reference to insects and diseases in the forests of British Columbia; forest health problems in the biogeoclimatic zones of BC; present management strategies and future potential in a scenario of climate change. [3-0] Prerequisite: One of FRST 210, NRES 212 and one of FRST 211, NRES 211.
In Person Learning Mon Wed Fri 11:00 a.m. - 12:30 p.m.

Concepts of disturbance ecology with special reference to insects and diseases in the forests of British Columbia; forest health problems in the biogeoclimatic zones of BC; present management strategies and future potential in a scenario of climate change. [3-0] Prerequisite: One of FRST 210, NRES 212 and one of FRST 211, NRES 211.
In Person Learning Wed 4:00 p.m. - 5:00 p.m.

Concepts of disturbance ecology with special reference to insects and diseases in the forests of British Columbia; forest health problems in the biogeoclimatic zones of BC; present management strategies and future potential in a scenario of climate change. [3-0] Prerequisite: One of FRST 210, NRES 212 and one of FRST 211, NRES 211.
In Person Learning Thu 2:00 p.m. - 4:00 p.m.

Concepts of disturbance ecology with special reference to insects and diseases in the forests of British Columbia; forest health problems in the biogeoclimatic zones of BC; present management strategies and future potential in a scenario of climate change. [3-0] Prerequisite: One of FRST 210, NRES 212 and one of FRST 211, NRES 211.
In Person Learning Thu 4:00 p.m. - 6:00 p.m.

The diversity and interactions of soil organisms (bacteria, protozoa, fungi, animals, plants) in natural and managed ecosystems; roles in primary production, nutrient cycling, decomposition and reclamation; responses to environmental change. [2-3-0] Prerequisite: Biol 121. Equivalency: APBI 402.
In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

The diversity and interactions of soil organisms (bacteria, protozoa, fungi, animals, plants) in natural and managed ecosystems; roles in primary production, nutrient cycling, decomposition and reclamation; responses to environmental change. [3-0-0] Prerequisite: Biol 121. Equivalency: APBI 402.
In Person Learning Tue 2:00 p.m. - 5:00 p.m.

In Person Learning Mon Wed Fri 10:00 a.m. - 11:30 a.m.

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.

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

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

In Person Learning Thu 6:00 p.m. - 7:30 p.m.

In Person Learning Mon 3:00 p.m. - 5:00 p.m.

In Person Learning Wed 2:00 p.m. - 4:00 p.m.

In Person Learning Fri 10:30 a.m. - 12:00 p.m.

Ecological effects of fire and climatic (wind, temperature, and snow) disturbances; fire danger rating principles of fire management and prescribed fire use; understanding fire in giving and management. [3-0] Prerequisite: One of FRST 210, NRES 212 and one of FRST 211, NRES 211.
In Person Learning Tue 8:00 a.m. - 9:30 a.m.

Ecological effects of fire and climatic (wind, temperature, and snow) disturbances; fire danger rating principles of fire management and prescribed fire use; understanding fire in giving and management. [3-0] Prerequisite: One of FRST 210, NRES 212 and one of FRST 211, NRES 211.
In Person Learning Tue 1:00 p.m. - 3:00 p.m.
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Effects of forest management activities on fish and aquatic ecosystems. [2-0-0] Prerequisite: Third- or fourth-year standing in Forestry, Science or Applied Science.

Forestry, management and conservation of terrestrial vertebrate wildlife, focusing primarily on socio-economically important, forest dwelling species of mammals, birds, amphibians and reptiles. [2-0-0] Prerequisite: One of FRST 201, ENVR 210, BIOL 326.

Introduction to Research Methods. [2-0-8] Prerequisite: One of FRST 210, BIOL 210, WILC 210, WOOD 225, NRES 225.

Introduction to Research Methods. [2-0-8] Prerequisite: One of FRST 210, BIOL 210, WILC 210, WOOD 225, NRES 225.

Introduction to Research Methods. [2-0-8] Prerequisite: One of FRST 210, BIOL 210, WILC 210, WOOD 225, NRES 225.

Introduction to Research Methods. [2-0-8] Prerequisite: One of FRST 210, BIOL 210, WILC 210, WOOD 225, NRES 225.
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.

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.

Analysis of variance, multiple regression and analysis of covariance. Design and analysis of experiments. [3-2-2] Prerequisite: One of FRST 331, NRES 231, BOX 300, STAT 200. And FRST 306 or equivalent. Restricted to students with 4th-year standing by permission of instructor.

Analysis of variance, multiple regression and analysis of covariance. Design and analysis of experiments. [3-2-2] Prerequisite: One of FRST 331, NRES 231, BOX 300, STAT 200. And FRST 306 or equivalent. Restricted to students with 4th-year standing by permission of instructor.

Techniques of growth and yield projection and discussion of modelling approaches. Exploration of stand dynamics, quantitative implications of management treatments and environmental limitations to tree and stand growth. [2-2-0] Prerequisite: FRST 330

The socio-economic, biological and technological aspects of forestry within the international frame, in both the developed and developing world. Regional studies and the role of national and international agencies. [2-2-4]

Directed Studies in Forestry

Directed Studies in Forestry

Remote Sensing for Ecosystem Management

Remote Sensing for Ecosystem Management

Basic biological concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. [2-2-4]

Basic biological concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. [2-2-4]

Basic biological concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. [2-2-4]

Basic biological concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. [2-2-4]

Ecological, economic and social benefits of incorporating trees into agricultural landscapes. Lectures and groupwork designing agroforestry systems in temperate and tropical contexts. [3-2-0] Prerequisite: One of FRST 201, NRES 201, APBI 260. Equivalency: APBI 444

Ecological, economic and social benefits of incorporating trees into agricultural landscapes. Lectures and groupwork designing agroforestry systems in temperate and tropical contexts. [3-2-0] Prerequisite: One of FRST 201, NRES 201, APBI 260. Equivalency: APBI 444

Ecological, economic and social benefits of incorporating trees into agricultural landscapes. Lectures and groupwork designing agroforestry systems in temperate and tropical contexts. [3-2-0] Prerequisite: One of FRST 201, NRES 201, APBI 260. Equivalency: APBI 444

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Co-operative Work Placement.

Co-operative Work Placement.

Co-operative Work Placement.

Co-operative Work Placement.

Directed Studies in Forestry

Directed Studies in Forestry

Directed Studies in Forestry

Directed Studies in Forestry

In Person Learning

In Person Learning

In Person Learning

In Person Learning

Directed Studies in Forestry

Directed Studies in Forestry

Directed Studies in Forestry

Directed Studies in Forestry

3:30 p.m. - 5:00 p.m.

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

In Person Learning

In Person Learning

In Person Learning

In Person Learning

In Person Learning

In Person Learning

Wed Fri

Wed

Wed

Wed

Wed

6:00 p.m. - 8:00 p.m.

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

Thu

Thu

W2

W1

W2

W1

W2

W1

Thu

Fri

Fri

Fri

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

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

In Person Learning

In Person Learning

In Person Learning

In Person Learning

In Person Learning

In Person Learning

In Person Learning

In Person Learning

In Person Learning

In Person Learning

In Person Learning

5:00 p.m. - 7:00 p.m.

7:00 p.m. - 9:00 p. m.

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

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

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

8:00 a.m. - 10:00 a.m.
FRST-V 469 F F, 201 Directed Studies in Forestry WI-2  In special cases and with the approval of the instructor concerned, a student may carry on directed studies of specific problems in forestry. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning, Arranged, Arranged.

FRST-V 462 201 Coastal Field School W2  Site diagnosis and preparation of management options in coastal forests. Extramural course; fees will be assessed to meet expenses. Prerequisite: Third or fourth-year standing in the B.S.F.S. program. In Person Learning, Arranged, Arranged.

FRST-V 460 201 Visual Resource Management and Planning for Aesthetics W2  Methodologies for visual analysis, perceptions, planning & management of urban, natural and working landscapes, and implications for sustainable land use management & community engagement. Credit will be granted for only one of FRST 460 or FRST 541. [2-2] Prerequisite: Third-year standing. Equivalency: LARC514. In Person Learning, Wed, 3:00 p.m. - 6:00 p.m.

FRST-V 460 201 Visual Resource Management and Planning for Aesthetics W2  Methodologies for visual analysis, perceptions, planning & management of urban, natural and working landscapes, and implications for sustainable land use management & community engagement. Credit will be granted for only one of FRST 460 or FRST 541. [2-2] Prerequisite: Third-year standing. Equivalency: LARC514. In Person Learning, Arranged, Arranged.

FRST-V 462 201 Environmental Perception W2  How individuals perceive their environment. Emphasis will be given visual perception in the context of natural resource issues and the effects of those perceptions on individuals including issues of human well-being. [1-0-0] Prerequisite: Third-year standing. In Person Learning, Fri, 11:00 a.m. - 2:00 p.m.

FRST-V 495-201 FRST-V 495-201 Biological Diversity and Conservation W2  Principles, problems, and practices of managing natural habitats for biodiversity; current issues in biodiversity important to researchers, policymakers, and the general public. This course is not eligible for Credit/D/Fail grading. [2-0-2] Prerequisite: One of FRST 201, NRES 201 and FRST 215. In Person Learning, Tue, Thu, 1:30 p.m. - 5:00 p.m.

FRST-V 497-101 FRST-V 497-101 Communications and Professionalism W1  Preparing professional reports and presentations, professionalism and professional ethics. [3-0-0] Prerequisite: Fourth-year standing. In Person Learning, Wed-Fri, 9:00 a.m. - 11:00 a.m.

FRST-V 498-001 FRST-V 498-001 B.Sc. Thesis in Forestry WI-2  An independent study or research project of a subject of special interest to the student under the direction of a staff member. Available only to students in the B.S.F.S. Honours specialization. In Person Learning, Mon, 1:00 p.m. - 4:00 p.m.

FRST-V 498-101 FRST-V 498-101 B.Sc. Thesis in Forestry W1  An independent study or research project of a subject of special interest to the student under the direction of a staff member. Available only to students in the B.S.F.S. Honours specialization. In Person Learning, Arranged, Arranged.

FRST-V 498-610 FRST-V 498-610 B.Sc. Thesis in Forestry W1  An independent study or research project of a subject of special interest to the student under the direction of a staff member. Available only to students in the B.S.F.S. Honours specialization. In Person Learning, Arranged, Arranged.

FRST-V 499-101 FRST-V 499-101 B.S.C. Thesis WI-2  An independent study or research project on an approved topic, developed under the guidance of a faculty member. Available only to students in their graduating year. In Person Learning, Arranged, Arranged.

FRST-V 500-101 FRST-V 500-101 Teaching and Learning in Forestry W1  An evidence-based examination of teaching and learning in forestry, focusing on instructional design, classroom practices and field instruction. This course is not eligible for Credit/D/Fail grading. In Person Learning, Wed, 1:30 p.m. - 2:30 p.m.

FRST-V 516 C, 101 FRST-V 516 C, 101 Directed Studies in Forest Science WI 1  Hereditary, physiological, anatomical, environmental, and microbiological factors influencing forest tree diseases. This course is not eligible for Credit/D/Fail grading. In Person Learning, Arranged, Arranged.

FRST-V 506-201 FRST-V 506-201 Advanced Forest Pathology W2  Methodologies for visual analysis, perceptions, planning & management of urban, natural and working landscapes, and implications for sustainable land use management & community engagement. Credit will be granted for only one of FRST 460 or FRST 541. [2-2] Prerequisite: Third-year standing. Equivalency: LARC514. In Person Learning, Wed, 2:00 p.m. - 4:00 p.m.

FRST-V 507 A, 101 FRST-V 507 A, 101 Topics in Forest Science W2  Hereditary, physiological, anatomical, environmental, and microbiological factors influencing forest tree diseases. This course is not eligible for Credit/D/Fail grading. In Person Learning, Thu, 1:00 p.m. - 4:00 p.m.

FRST-V 507 B, 101 FRST-V 507 B, 101 Topics in Forest Science W1  This course is not eligible for Credit/D/Fail grading. In Person Learning, Wed, 11:00 a.m. - 2:00 p.m.

FRST-V 507 C, 102 FRST-V 507 C, 102 Topics in Forest Science W1  This course is not eligible for Credit/D/Fail grading. In Person Learning, Tue-Thur, 8:00 a.m. - 9:30 a.m.

FRST-V 507 C, 102 FRST-V 507 C, 102 Topics in Forest Science W1  This course is not eligible for Credit/D/Fail grading. In Person Learning, Tue, 1:00 p.m. - 3:00 p.m.

FRST-V 508-201 FRST-V 508-201 Advanced Forest Insect Ecology W2  Role of climate and climate change in the population dynamics, outbreak potentials and resultant impacts to forest ecosystems associated with herbivorous forest insects. This course is not eligible for Credit/D/Fail grading. In Person Learning, Tue-Thur, 4:00 p.m. - 5:30 p.m.

FRST-V 515-201 FRST-V 515-201 Climate Change Communications and Engagement W2  Psychological, social, and systemic dimensions of climate change communication; approaches for engaging diverse groups for low-carbon futures; overcoming climate resistance. In Person Learning, Tue, 10:00 a.m. - 1:00 p.m.

FRST-V 519-101 FRST-V 519-101 Forests and Society W1  Emphasis on tropical and sub-tropical countries, where the majority of forest-dependent people live. This course is not eligible for Credit/D/Fail grading. In Person Learning, Wed, 9:00 a.m. - 12:00 p.m.

FRST-V 521 C, 101 FRST-V 521 C, 101 Topics in Forests and Society W1  This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning, Arranged, Arranged.

FRST-V 521 C, 101 FRST-V 521 C, 101 Topics in Forests and Society W1  This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning, Mon, 2:30 p.m. - 5:30 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Schedule</th>
<th>Room</th>
<th>Description</th>
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<tr>
<td>FRST_V521-C</td>
<td>Topics in Forests and Society</td>
<td>0.15</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:00 p.m.</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>FRST_V522</td>
<td>Social Community, and Indigenous Forestry</td>
<td>0.1</td>
<td>Mon</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>FRST_V523</td>
<td>Forest and Environmental Policy</td>
<td>0.1</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>FRST_V525</td>
<td>Forest and Environmental Policy</td>
<td>0.1</td>
<td>Wed</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>FRST_V526</td>
<td>Environmental Perception</td>
<td>0.1</td>
<td>Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>FRST_V530</td>
<td>Advanced Modelling Methods for Natural Resources Applications</td>
<td>0.2</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>FRST_V531</td>
<td>Multivariate Statistical Methods</td>
<td>0.2</td>
<td>Wed Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>FRST_V532-C</td>
<td>Directed Studies in Forest Management</td>
<td>0.2</td>
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<td>Arranged</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>FRST_V533</td>
<td>Problems in Statistical Methods</td>
<td>0.2</td>
<td>Sun</td>
<td>1:00 p.m. - 2:00 p.m.</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>FRST_V534</td>
<td>Natural Resource Economics</td>
<td>0.2</td>
<td>Tue</td>
<td>8:00 a.m. - 9:00 a.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>FRST_V537-C</td>
<td>Topics in Forest Management</td>
<td>0.2</td>
<td>Arranged</td>
<td>Arranged</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>FRST_V538</td>
<td>Advanced Geomatics for Natural Resource Management</td>
<td>0.2</td>
<td>Mon</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>FRST_V539</td>
<td>Advanced Geomatics for Natural Resource Management</td>
<td>0.2</td>
<td>Mon</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>FRST_V540</td>
<td>International Forestry Institutions, Diplomacy and Negotiation</td>
<td>0.2</td>
<td>Tue</td>
<td>8:00 a.m. - 9:00 a.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>FRST_V541</td>
<td>Technical Communication Skills I</td>
<td>0.2</td>
<td>Wed</td>
<td>1:30 p.m. - 2:30 p.m.</td>
<td>Principles and practice of oral presentations. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>FRST_V542</td>
<td>Technical Communication Skills I</td>
<td>0.2</td>
<td>Fri</td>
<td>9:30 a.m. - 10:30 a.m.</td>
<td>Principles and practice of oral presentations. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>FRST_V-S44-103</td>
<td>Technical Communication Skills I</td>
<td>W2</td>
<td>Thu 8:30 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>FRST_V-S44-104</td>
<td>Technical Communication Skills I</td>
<td>W2</td>
<td>Tue 1:30 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>FRST_V-S45-201</td>
<td>Technical Communication Skills II</td>
<td>W2</td>
<td>Thu 2:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>FRST_V-S47-201</td>
<td>Forestry in British Columbia</td>
<td>W1</td>
<td>Fri 10:00 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>FRST_V-S48_A-001</td>
<td>Major Essay</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>FRST_V-S48_B-001</td>
<td>Major Essay</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>FRST_V-S49_A-001</td>
<td>Master's Thesis</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>FRST_V-S49_B-001</td>
<td>Master's Thesis</td>
<td>W1-2</td>
<td>In Person Learning</td>
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<td>FRST_V-S49_C-001</td>
<td>Master's Thesis</td>
<td>W1-2</td>
<td>In Person Learning</td>
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<tr>
<td>FRST_V-S50_A-001</td>
<td>M.A.Sc. Thesis</td>
<td>W1-2</td>
<td>In Person Learning</td>
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<td>FRST_V-S50_B-001</td>
<td>M.A.Sc. Thesis</td>
<td>W1-2</td>
<td>In Person Learning</td>
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<td>FRST_V-S50_C-001</td>
<td>M.A.Sc. Thesis</td>
<td>W1-2</td>
<td>In Person Learning</td>
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**Notes:**
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- For non-thesis master's degree programs. This course is not eligible for Credit/D/Fail grading.
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<tr>
<td>FRST_V 550-C_101</td>
<td>Introductory Forensic Science I</td>
<td>3.00</td>
<td>C_101</td>
<td>In Person Learning</td>
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<tr>
<td>FRST_V 550-C_201</td>
<td>Introductory Forensic Science II</td>
<td>3.00</td>
<td>C_201</td>
<td>In Person Learning</td>
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<tr>
<td>FRST_V 551-201</td>
<td>Landscape Planning for Sustainability</td>
<td>3.00</td>
<td>201</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>3:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>FRST_V 553-101</td>
<td>International Forest Governance and Policy</td>
<td>3.00</td>
<td>101</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>FRST_V 556-101</td>
<td>Land Information Acquisition and Analysis</td>
<td>3.00</td>
<td>101</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>FRST_V 557-101</td>
<td>Site-Level Forest Land Management</td>
<td>3.00</td>
<td>101</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>8:00 a.m. - 12:00 a.m.</td>
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<tr>
<td>FRST_V 557-101</td>
<td>Site-Level Forest Land Management</td>
<td>3.00</td>
<td>101</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>1:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>FRST_V 558-201</td>
<td>Landscape-Level Forest Land Management</td>
<td>3.00</td>
<td>201</td>
<td>In Person Learning</td>
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<tr>
<td>FRST_V 559-101</td>
<td>Natural Resources Planning</td>
<td>3.00</td>
<td>101</td>
<td>In Person Learning</td>
<td>Wed Thu</td>
<td>8:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>FRST_V 559-201</td>
<td>Natural Resources Planning</td>
<td>3.00</td>
<td>201</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>8:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>FRST_V 560-201</td>
<td>Forest Business Enterprise</td>
<td>3.00</td>
<td>201</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>8:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>FRST_V 562-101</td>
<td>Topics in International Forestry</td>
<td>3.00</td>
<td>101</td>
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<tr>
<td>FRST_V 576-L_101</td>
<td>Directed Studies in Forest Business and Management</td>
<td>3.00</td>
<td>C_101</td>
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<td>FRST_V 576-L_201</td>
<td>Directed Studies in Forest Business and Management</td>
<td>3.00</td>
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<td>Fri</td>
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<tr>
<td>FRST_V 580-C_102</td>
<td>Topics in Forest Business and Management</td>
<td>3.00</td>
<td>C_102</td>
<td>In Person Learning</td>
<td>Mon Thu</td>
<td>11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>FRST_V 580-C_110</td>
<td>Topics in Forest Business and Management</td>
<td>3.00</td>
<td>C_110</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>11:00 a.m. - 1:00 p.m.</td>
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<tr>
<td>FRST_V 593-101</td>
<td>Climate Adaptation in Socio-Ecological Systems</td>
<td>3.00</td>
<td>101</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>1:30 p.m. - 4:30 p.m.</td>
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<tr>
<td>FRST_V 595-201</td>
<td>Transformative Environmental Research</td>
<td>3.00</td>
<td>201</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>12:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>FRST_V 649-001</td>
<td>Doctoral Dissertation</td>
<td>3.00</td>
<td>001</td>
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<td>3.00</td>
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<td>3.00</td>
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<td>FSCT_V 280-001</td>
<td>Introductory Forensic Science I</td>
<td>3.00</td>
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<td>FSCT_V 290-001</td>
<td>Introductory Forensic Science II</td>
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<td>GEOS_V 121-101</td>
<td>GEOG_V 121</td>
<td>101</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>
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<tr>
<td>GEOS_V 121-102</td>
<td>GEOG_V 121</td>
<td>102</td>
<td>Geography, Environment and Globalization</td>
<td>W1</td>
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<td>In Person Learning</td>
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<tr>
<td>GEOS_V 121-201</td>
<td>GEOG_V 121</td>
<td>201</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>
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<tr>
<td>GEOS_V 121-101</td>
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<td>Geography, Environment and Globalization</td>
<td>W2</td>
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<td>102</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
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<td>GEOG_V 121</td>
<td>103</td>
<td>Geography, Environment and Globalization</td>
<td>W2</td>
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<td>104</td>
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<td>W2</td>
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<td>GEOG_V 121</td>
<td>105</td>
<td>Geography, Environment and Globalization</td>
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<td>11D</td>
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<td>W1</td>
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<td>11P</td>
<td>Geography, Environment and Globalization</td>
<td>W1</td>
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Human geography of the modern world with particular attention to human-environment relationships, urbanization, and regional growth; trade and communications; environment and war; environmental governance and sustainability. In Person Learning Arranged Arranged

Human geography of the modern world with particular attention to human-environment relationships, urbanization, and regional growth; trade and communications; environment and war; environmental governance and sustainability. In Person Learning Wed 5:00 p.m. - 6:00 p.m.

Human geography of the modern world with particular attention to human-environment relationships, urbanization, and regional growth; trade and communications; environment and war; environmental governance and sustainability. In Person Learning Wed 11:00 a.m. - 12:30 p.m.

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. In Person Learning Mon/Wed/Fri 3:00 p.m. - 4:00 p.m.

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

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. In Person Learning Tue 10:00 a.m. - 2:00 p.m.

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

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

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. In Person Learning Wed 3:00 p.m. - 4:00 p.m.

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. In Person Learning Wed 4:00 p.m. - 5:00 p.m.

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

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. In Person Learning Thu 11:00 a.m. - 2:00 p.m.

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. In Person Learning Fri 10:00 a.m. - 2:00 p.m.

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

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. In Person Learning Fri 3:00 p.m. - 4:00 p.m.

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

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. In Person Learning Wed 3:00 p.m. - 4:00 p.m.

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

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. In Person Learning Mon 3:00 p.m. - 4:00 p.m.

Climate responsiveness, impacts, and parallel crises of the climate emergency; decarbonization challenge and measuring progress towards emission targets; 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

Climate responsiveness, impacts, and parallel crises of the climate emergency; decarbonization challenge and measuring progress towards emission targets; 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

An integrated approach to the physical and human geography of the Lower Mainland of British Columbia -Fleetropo. In Person Learning Mon/Wed 11:00 a.m. - 12:30 p.m.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Grading Option</th>
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<tr>
<td>GEOG_V 211-199</td>
<td>The State of the Earth</td>
<td>1.00</td>
<td>The demographic, economic, ecological, and technological factors that underlie current environmental challenges, considering their effects to date and their possible impact in the future. Credit will only be granted for one of GEOG 211 or ENST 211. Recommended: Second-year standing.</td>
<td>ENST 211</td>
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<tr>
<td>GEOG_V 211</td>
<td>The State of the Earth</td>
<td>1.00</td>
<td>The demographic, economic, ecological, and technological factors that underlie current environmental challenges, considering their effects to date and their possible impact in the future. Credit will only be granted for one of GEOG 211 or ENST 211. Recommended: Second-year standing.</td>
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<td>GEOG_V 220-201</td>
<td>Geopolitics</td>
<td>1.00</td>
<td>An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 220 or URST 220. Equivalency: URST 220</td>
<td>GEOG 121</td>
<td>Arranged</td>
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<tr>
<td>GEOG_V 250-101</td>
<td>Cities</td>
<td>1.00</td>
<td>An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 250. Equivalency: URST 250</td>
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<tr>
<td>GEOG_V 250-201</td>
<td>Cities</td>
<td>1.00</td>
<td>An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 250. Equivalency: URST 250</td>
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<tr>
<td>GEOG_V 250-L 1A</td>
<td>Cities</td>
<td>1.00</td>
<td>An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 250. Equivalency: URST 250</td>
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<tr>
<td>GEOG_V 250-L 1B</td>
<td>Cities</td>
<td>1.00</td>
<td>An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 250. Equivalency: URST 250</td>
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<td>GEOG_V 250-L 1C</td>
<td>Cities</td>
<td>1.00</td>
<td>An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 250. Equivalency: URST 250</td>
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<td>GEOG_V 250-L 1D</td>
<td>Cities</td>
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<td>An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 250. Equivalency: URST 250</td>
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<td>GEOG_V 250-L 1E</td>
<td>Cities</td>
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<td>An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 250. Equivalency: URST 250</td>
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<td>An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 250. Equivalency: URST 250</td>
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<td>GEOG_V 250-L 1G</td>
<td>Cities</td>
<td>1.00</td>
<td>An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of GEOG 250 or URST 250. Equivalency: URST 250</td>
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<td>GEOG_V 302-101</td>
<td>Climate Justice</td>
<td>1.00</td>
<td>Concepts and debates in the interdisciplinary field and practice of climate justice, the role of systemic processes and patterns underlying climate change and climate impacts. Credit will only be granted for one of GEOG 302 or ENST 302. Recommended: Second-year standing.</td>
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<tr>
<td>GEOG_V 302-201</td>
<td>Climate Justice</td>
<td>1.00</td>
<td>Concepts and debates in the interdisciplinary field and practice of climate justice, the role of systemic processes and patterns underlying climate change and climate impacts. Credit will only be granted for one of GEOG 302 or ENST 302. Recommended: Second-year standing.</td>
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<td>GEOG_V 310-101</td>
<td>Environment and Sustainability</td>
<td>1.00</td>
<td>Concepts of environment, resources, and sustainability; the role of physical and human geography in understanding the interaction of humans and the environment; introduction to management of environment-resource systems. Credit will be granted for only one of GEOG 310 or ENST 310.</td>
<td>ENST 310</td>
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<tr>
<td>GEOG_V 310-201</td>
<td>Environment and Sustainability</td>
<td>1.00</td>
<td>Concepts of environment, resources, and sustainability; the role of physical and human geography in understanding the interaction of humans and the environment; introduction to management of environment-resource systems. Credit will be granted for only one of GEOG 310 or ENST 310.</td>
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<tr>
<td>GEOG_V 310-301</td>
<td>Environment and Sustainability</td>
<td>1.00</td>
<td>Concepts of environment, resources, and sustainability; the role of physical and human geography in understanding the interaction of humans and the environment; introduction to management of environment-resource systems. Credit will be granted for only one of GEOG 310 or ENST 310.</td>
<td>ENST 310</td>
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<td>GEOG_V 311-101</td>
<td>Urban Environments</td>
<td>1.00</td>
<td>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. Recommended: Second-year standing.</td>
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<td>GEOG_V 311-201</td>
<td>Urban Environments</td>
<td>1.00</td>
<td>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. Recommended: Second-year standing.</td>
<td>ENST 311</td>
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<tr>
<td>GEOG_V 313-101</td>
<td>Climate Change: Science and Society</td>
<td>1.00</td>
<td>Concepts of climate change: science and society. Credit will be granted for only one of GEOG 313 or ENST 313. Recommended: Second-year standing.</td>
<td>ENST 313</td>
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<td>GEOG_V 313-201</td>
<td>Environmental Justice and Social Change</td>
<td>1.00</td>
<td>Concepts of climate change: science and society. Credit will be granted for only one of GEOG 313 or ENST 313. Recommended: Second-year standing.</td>
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GEOG 313 L2 Environmental Justice and Social Change W2
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GEOG 313 L2A Environmental Justice and Social Change W2
In Person Learning Arranged
GEOG 313 L2B Environmental Justice and Social Change W2
In Person Learning Arranged
GEOG 313 L2C Environmental Justice and Social Change W2
In Person Learning Arranged
GEOG 313 L2D Environmental Justice and Social Change W2
In Person Learning Arranged
GEOG 313 L2E Environmental Justice and Social Change W2
In Person Learning Arranged
GEOG 313 L2F Environmental Justice and Social Change W2
In Person Learning Arranged
GEOG 313 L2G Environmental Justice and Social Change W2
In Person Learning Arranged
GEOG 314 101A Analyzing Environmental Problems W2
In Person Learning Tue 10:00 a.m. - 10:50 a.m.
GEOG 314 101B Analyzing Environmental Problems W2
In Person Learning Tue 2:00 p.m. - 2:50 p.m.
GEOG 314 101C Analyzing Environmental Problems W2
In Person Learning Tue 3:00 p.m. - 4:00 p.m.
GEOG 314 102 Analyzing Environmental Problems W2
In Person Learning Thu 10:00 a.m. - 11:00 a.m.
GEOG 316 301 Geography of Natural Hazards W2
In Person Learning Mon 2:00 p.m. - 3:00 p.m.
Constructing Canada
The construction of Canadian political space after Confederation, a provincial-newsroom relations, regional development and conflict, industrialization, urbanization, and war. In Person Learning Wed-Fri 9:30 a.m. - 11:08 a.m.

Political Geography
Review of political geography and geopolitics; relations among power, space and politics; case studies from current global affairs. In Person Learning Tue Thu 9:30 a.m. - 11:08 a.m.

Post- and Anti-colonial Geographies
An examination of some key postcolonial and ontological theories to engage with questions of geographical difference, savoir development, and the politics of knowledge production on the global scale. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

Theory and Practice in Human Geography
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. - 11:08 a.m.

Topics in Geography
Topics will vary from year to year. Consult the departmental website or contact the Geography undergraduate advisor for details. In Person Learning Arranged Arranged

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

Urban Environmental Politics
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: ENST 351. In Person Learning Wed-Fri 11:00 a.m. - 12:30 p.m.

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 352 or URB 352. Equivalency: URB 352. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

Geographies of Migrant and Settlement
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 11:00 a.m. - 12:00 p.m.

Geographies of Urban Indigeneity
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.

Society, Culture & Space
The development of social and behavioural geography, focusing on how places, landscapes, and environments both reflect and shape social life. Third year standing is recommended. In Person Learning Mon Wed 2:00 p.m. - 3:30 p.m.

Critical Geographies of the Economy
Historical and methodological approaches to 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. In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.

Geographical approaches to economic development; models of economic development and spatial change; influences on spatial economic change; case studies from the developed, third, and socialist worlds. Recommended pre-requisites: either (a) GEOG 122 or (b) GEOG 121. In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.

Geographies of Economic Development
Geographical approaches to economic development; models of economic development and spatial change; influences on spatial economic change; case studies from the developed, third, and socialist worlds. Recommended pre-requisites: either (a) GEOG 122 or (b) GEOG 260. Online Learning Mon Wed 2:00 p.m. - 3:30 p.m.

Geographical approaches to economic development; models of economic development and spatial change; influences on spatial economic change; case studies from the developed, third, and socialist worlds. Recommended pre-requisites: either (a) GEOG 122 or (b) GEOG 362. Online Learning Mon Wed 2:00 p.m. - 3:30 p.m.

Globalization, Cities, and Regions
Forms of economic development; changing locations of economic activities and functions; implications for government and politics; local strategies for growth and equity. Recommended pre-requisites: one of GEOG 121, GEOG 122. In Person Learning Mon Wed 2:00 p.m. - 3:30 p.m.

Research Strategies in Geography
Formulating a research problem and selecting an appropriate research strategy. Research strategies range from social scientific survey methods to ethnography. Priority enrolment for honours and major students in Geography. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed 9:30 a.m. - 11:08 a.m.

Research Strategies in Geography
Formulating a research problem and selecting an appropriate research strategy. Research strategies range from social scientific survey methods to ethnography. Priority enrolment for honours and major students in Geography. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 9:00 a.m. - 10:00 a.m.

Research Strategies in Geography
Formulating a research problem and selecting an appropriate research strategy. Research strategies range from social scientific survey methods to ethnography. Priority enrolment for honours and major students in Geography. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 9:00 a.m. - 10:00 a.m.

Research Strategies in Geography
Introduction to statistical techniques and their application to geographical problems. Priority enrolment for honours and major students in Geography. Consult the Faculty of Science Credit Exclusion Lists: https://vancouver.ubc.ca/faculties-colleges-and-schools/science/sciences/bachelor-science/credit-exclusion-lists.

Statistics in Geography
Online Learning Tue Thu 9:30 a.m. - 11:08 a.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Type</th>
<th>Faculty</th>
<th>Room</th>
<th>Days</th>
<th>Time</th>
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<tbody>
<tr>
<td>GEOG V 448-101</td>
<td>Directed Studies in Geography</td>
<td>Online Learning</td>
<td>Mon</td>
<td>8:00 a.m. - 8:30 a.m.</td>
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<tr>
<td>GEOG V 448-201</td>
<td>Directed Studies in Geography</td>
<td>Online Learning</td>
<td>Mon</td>
<td>8:00 a.m. - 8:30 a.m.</td>
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<tr>
<td>GEOG V 450-201</td>
<td>Urban Research</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>11:00 a.m. - 2:00 p.m.</td>
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<tr>
<td>GEOG V 451-109</td>
<td>Urban Studies Capstone I</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>GEOG V 453-101</td>
<td>Political Geographic Analysis</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>11:00 a.m. - 2:00 p.m.</td>
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<tr>
<td>GEOG V 456-201</td>
<td>Urban Political-Economic Geographies</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>GEOG V 457-101</td>
<td>The Arctic</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>11:00 a.m. - 2:00 p.m.</td>
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<tr>
<td>GEOG V 458-101</td>
<td>Geographies of the Middle East</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>11:00 a.m. - 2:00 p.m.</td>
<td></td>
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<tr>
<td>GEOG V 514-A_101</td>
<td>Topics in Environmental Geography</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>8:00 a.m. - 8:30 a.m.</td>
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<tr>
<td>GEOG V 514-B_101</td>
<td>Topics in Environmental Geography</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>8:00 a.m. - 8:30 a.m.</td>
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<tr>
<td>GEOG V 514-B_201</td>
<td>Topics in Environmental Geography</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>8:00 a.m. - 8:30 a.m.</td>
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<tr>
<td>GEOG V 520-101</td>
<td>Themes and Interpretive Issues in Modern Human Geography</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>GEOG V 523-A_201</td>
<td>Advanced Seminar in Human Geography</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>11:00 a.m. - 2:00 p.m.</td>
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<tr>
<td>GEOG V 545-A_101</td>
<td>Topics in Human Geography</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>11:00 a.m. - 2:00 p.m.</td>
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<tr>
<td>GEOG V 551-201</td>
<td>Urban Social Geography</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>GEOG V 560-A_101</td>
<td>Economic Geography</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>11:00 a.m. - 2:00 p.m.</td>
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<tr>
<td>GEOG V 575-D_201</td>
<td>Research Strategies in Human Geography</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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**Course Descriptions:**

1. **Directed Studies in Geography**: Investigation of a topic to be agreed upon by the supervising faculty member and the student. Prerequisite: Open to upper level students enrolled in the Geography Majors or Honours programs. Permission of the Undergraduate Advisor and supervising faculty member is required.

2. **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 GEOG 450 or URST 450. Prerequisite: Fourth-year standing. Equivalency: URST 450

3. **Urban Studies Capstone I**: Formation of key elements of urban studies theory, concepts, and methods in a community-engaged urban challenge. Credit will be granted for only one of GEOG 451 or URST 451. Prerequisites: One of GEOG 250, URST 250 and all of PLAN 251, PLAN 253, GEOG 271. Equivalency: URST 451

4. **Political Geographic Analysis**: Political organization of space, territorial and spatial patterns of power and identity; contemporary geopolitical struggles. Prerequisite: At least third-year standing.

5. **Urban Political-Economic Geographies**: Principal theories and debates in urban political economy and political-economic geography, with particular emphasis on global transformations.

6. **Geographies of the Middle East**: Critical analysis of economic, social, and political development and processes defining the modern Middle East region.

7. **Topics in Environmental Geography**: Thematic and interpretive issues in modern human geography. Students from outside Geography require the permission of the Head of the Department. Restricted to M.A. GEOG, M.Sc. GEOG, or PhD GEOG. This course is not eligible for Credit/D/Fail grading.

8. **Advanced Seminar in Human Geography**: A workshop-based seminar for Master's and PhD students in human geography concerned with the evaluation of alternative research strategies and the development of individual research proposals. This course is not eligible for Credit/D/Fail grading.
Restricted to MA in Geography students. This course is not eligible for Credit/D/Fail grading.

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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-and-schools/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-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0]
GEOS_V 100-109
103 109 Our Changing Environment: Water and Landscapes
W1 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-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0] In Person Learning Thu 3:00 p.m. - 4:00 p.m.

GEOS_V 100-12A
103 12A Our Changing Environment: Water and Landscapes
W2 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-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0] In Person Learning Thu 3:00 p.m. - 4:00 p.m.

GEOS_V 100-12B
103 12B Our Changing Environment: Water and Landscapes
W2 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-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0] In Person Learning Thu 3:00 p.m. - 4:00 p.m.

GEOS_V 100-12C
103 12C Our Changing Environment: Water and Landscapes
W2 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-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0] In Person Learning Thu 3:00 p.m. - 4:00 p.m.

GEOS_V 100-12D
103 12D Our Changing Environment: Water and Landscapes
W2 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-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0] In Person Learning Thu 3:00 p.m. - 4:00 p.m.

GEOS_V 100-12F
103 12F Our Changing Environment: Water and Landscapes
W2 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-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0] In Person Learning Tue 11:00 a.m. - 12:00 p.m.

GEOS_V 100-12G
103 12G Our Changing Environment: Water and Landscapes
W2 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-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0] In Person Learning Wed 1:00 p.m. - 2:00 p.m.

GEOS_V 100-12H
103 12H Our Changing Environment: Water and Landscapes
W2 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-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-2*-0] In Person Learning Wed 1:00 p.m. - 2:00 p.m.

GEOS_V 200-101
200 101 Atmospheric Environments
W1 Physical principles underlying weather and climates. Thermal, moisture and wind climates from the scale of plants and animals to the globe. Daily weather systems and climate change. Credit will be granted for only one of GEOS (or GEOB) 200, GEOB (or GEOB) 206, or APBI 244. Recommended prerequisites: one of GEOS 102, GEOB 102, or second-year standing in science. [3-2*-0] Equivalency: APBI244
In Person Learning Mon/Wed 9:30 a.m. - 11:00 a.m.

GEOS_V 200-11A
200 11A Atmospheric Environments
W1 Physical principles underlying weather and climates. Thermal, moisture and wind climates from the scale of plants and animals to the globe. Daily weather systems and climate change. Credit will be granted for only one of GEOS (or GEOB) 200, GEOB (or GEOB) 206, or APBI 244. Recommended prerequisites: one of GEOS 102, GEOB 102, or second-year standing in science. [3-2*-0] Equivalency: APBI244
In Person Learning Tue 11:00 a.m. - 1:00 p.m.

GEOS_V 200-11B
200 11B Atmospheric Environments
W1 Physical principles underlying weather and climates. Thermal, moisture and wind climates from the scale of plants and animals to the globe. Daily weather systems and climate change. Credit will be granted for only one of GEOS (or GEOB) 200, GEOB (or GEOB) 206, or APBI 244. Recommended prerequisites: one of GEOS 102, GEOB 102, or second-year standing in science. [3-2*-0] Equivalency: APBI244
In Person Learning Tue 11:00 a.m. - 1:00 p.m.

GEOS_V 200-11C
200 11C Atmospheric Environments
W1 Physical principles underlying weather and climates. Thermal, moisture and wind climates from the scale of plants and animals to the globe. Daily weather systems and climate change. Credit will be granted for only one of GEOS (or GEOB) 200, GEOB (or GEOB) 206, or APBI 244. Recommended prerequisites: one of GEOS 102, GEOB 102, or second-year standing in science. [3-2*-0] Equivalency: APBI244
In Person Learning Tue 11:00 a.m. - 1:00 p.m.

GEOS_V 200-11D
200 11D Atmospheric Environments
W1 Physical principles underlying weather and climates. Thermal, moisture and wind climates from the scale of plants and animals to the globe. Daily weather systems and climate change. Credit will be granted for only one of GEOS (or GEOB) 200, GEOB (or GEOB) 206, or APBI 244. Recommended prerequisites: one of GEOS 102, GEOB 102, or second-year standing in science. [3-2*-0] Equivalency: APBI244
In Person Learning Wed 11:00 a.m. - 1:00 p.m.

GEOS_V 200-11E
200 11E Atmospheric Environments
W1 Physical principles underlying weather and climates. Thermal, moisture and wind climates from the scale of plants and animals to the globe. Daily weather systems and climate change. Credit will be granted for only one of GEOS (or GEOB) 200, GEOB (or GEOB) 206, or APBI 244. Recommended prerequisites: one of GEOS 102, GEOB 102, or second-year standing in science. [3-2*-0] Equivalency: APBI244
In Person Learning Wed 11:00 a.m. - 1:00 p.m.

GEOS_V 200-11F
200 11F Atmospheric Environments
W1 Physical principles underlying weather and climates. Thermal, moisture and wind climates from the scale of plants and animals to the globe. Daily weather systems and climate change. Credit will be granted for only one of GEOS (or GEOB) 200, GEOB (or GEOB) 206, or APBI 244. Recommended prerequisites: one of GEOS 102, GEOB 102, or second-year standing in science. [3-2*-0] Equivalency: APBI244
In Person Learning Thu 3:00 p.m. - 5:00 p.m.

GEOS_V 207-101
207 101 Introduction to Biogeography
W1 Geographical ecology emphasizing contemporary species distributions at local to global spatial scales, population and community dynamics, and human impacts. Labs: emphasis collecting data (sometimes outdoors) and interpreting results. Recommended pre-requisites: one of GEOS 102, GEOB 102. [3-2*-0] Equivalency: APBI244
In Person Learning Thu 9:30 a.m. - 11:00 a.m.

GEOS_V 207-11A
207 11A Introduction to Biogeography
W1 Geographical ecology emphasizing contemporary species distributions at local to global spatial scales, population and community dynamics, and human impacts. Labs: emphasis collecting data (sometimes outdoors) and interpreting results. Recommended pre-requisites: one of GEOS 102, GEOB 102. [3-2*-0] Equivalency: APBI244
In Person Learning Thu 2:00 p.m. - 4:00 p.m.

GEOS_V 207-11B
207 11B Introduction to Biogeography
W1 Geographical ecology emphasizing contemporary species distributions at local to global spatial scales, population and community dynamics, and human impacts. Labs: emphasis collecting data (sometimes outdoors) and interpreting results. Recommended pre-requisites: one of GEOS 102, GEOB 102. [3-2*-0] Equivalency: APBI244
In Person Learning Wed 3:00 p.m. - 5:00 p.m.

GEOS_V 207-11C
207 11C Introduction to Biogeography
W1 Geographical ecology emphasizing contemporary species distributions at local to global spatial scales, population and community dynamics, and human impacts. Labs: emphasis collecting data (sometimes outdoors) and interpreting results. Recommended pre-requisites: one of GEOS 102, GEOB 102. [3-2*-0] Equivalency: APBI244
In Person Learning Wed 3:00 p.m. - 5:00 p.m.
**GEOS_V 270-101**  
**GEOS_V 270-201** Geographic Information Science  
W1  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Mon Wed  
2:00 p.m. - 3:10 p.m.

**GEOS_V 270-201**  
**GEOS_V 270-101** Geographic Information Science  
W2  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Tue Thu  
3:30 p.m. - 5:00 p.m.

**GEOS_V 270-11A**  
**GEOS_V 270-11B** Geographic Information Science  
W1  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Wed  
3:00 a.m. - 12:30 p.m.

**GEOS_V 270-11B**  
**GEOS_V 270-11A** Geographic Information Science  
W1  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Wed  
3:00 a.m. - 12:30 p.m.

**GEOS_V 270-11C**  
**GEOS_V 270-11D** Geographic Information Science  
W1  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Thu  
2:00 p.m. - 6:00 p.m.

**GEOS_V 270-11E**  
**GEOS_V 270-11F** Geographic Information Science  
W1  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Fri  
3:00 a.m. - 12:30 p.m.

**GEOS_V 270-12A**  
**GEOS_V 270-12B** Geographic Information Science  
W2  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Mon  
3:00 a.m. - 12:30 p.m.

**GEOS_V 270-12B**  
**GEOS_V 270-12A** Geographic Information Science  
W2  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Tue  
3:00 a.m. - 12:30 p.m.

**GEOS_V 270-12C**  
**GEOS_V 270-12D** Geographic Information Science  
W2  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Wed  
3:00 a.m. - 12:30 p.m.

**GEOS_V 270-12D**  
**GEOS_V 270-12C** Geographic Information Science  
W2  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Wed  
4:00 p.m. - 6:00 p.m.

**GEOS_V 280-101**  
**GEOS_V 280-102** Microscale Weather and Climate  
W1  
Meteorology and climatology at the micro-, local, and meso-scales. Interactions between land surfaces and atmosphere. Basics of atmospheric turbulence and transfer processes. Microclimates on scales of a leaf to those of a large valley. Recommended pre-requisites: one of GEOB 206, GEOS 206, GEOB 204, GEOS 204, ATSC 201. [3-0-0]  
In Person Learning  
Mon Wed  
2:00 p.m. - 4:10 p.m.

**GEOS_V 280-102**  
**GEOS_V 280-101** Microscale Weather and Climate  
W2  
Meteorology and climatology at the micro-, local, and meso-scales. Interactions between land surfaces and atmosphere. Basics of atmospheric turbulence and transfer processes. Microclimates on scales of a leaf to those of a large valley. Recommended pre-requisites: one of GEOB 206, GEOS 206, GEOB 204, GEOS 204, ATSC 201. [3-0-0]  
In Person Learning  
Wed  
4:00 p.m. - 6:00 p.m.

**GEOS_V 280-201**  
**GEOS_V 280-202** Microscale Weather and Climate  
W2  
Meteorology and climatology at the micro-, local, and meso-scales. Interactions between land surfaces and atmosphere. Basics of atmospheric turbulence and transfer processes. Microclimates on scales of a leaf to those of a large valley. Recommended pre-requisites: one of GEOB 206, GEOS 206, GEOB 204, GEOS 204, ATSC 201. [3-0-0]  
In Person Learning  
Wed  
4:00 p.m. - 6:00 p.m.

**GEOS_V 300-101**  
**GEOS_V 300-102** Tropical Ecosystems in a Changing World  
W2  
Biogeography and ecology of tropical systems, including patterns of species diversity, forest dynamics, plant-animal interactions, carbon and nutrient cycling. Impacts of global environmental change and conservation strategies for tropical ecosystems. Recommended prerequisites: one of GEOB 207, GEOS 207, BIOC 230, FRST 201. [3-0-0]  
In Person Learning  
Mon Wed  
4:00 p.m. - 6:10 p.m.

**GEOS_V 300-102**  
**GEOS_V 300-101** Tropical Ecosystems in a Changing World  
W2  
Biogeography and ecology of tropical systems, including patterns of species diversity, forest dynamics, plant-animal interactions, carbon and nutrient cycling. Impacts of global environmental change and conservation strategies for tropical ecosystems. Recommended prerequisites: one of GEOB 207, GEOS 207, BIOC 230, FRST 201. [3-0-0]  
In Person Learning  
Wed  
4:00 p.m. - 6:10 p.m.

**GEOS_V 305-101**  
**GEOS_V 305-102** Introduction to Hydrology  
W2  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Mon Wed  
3:30 p.m. - 5:00 p.m.

**GEOS_V 305-102**  
**GEOS_V 305-101** Introduction to Hydrology  
W2  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Mon Wed  
3:30 p.m. - 5:00 p.m.

**GEOS_V 305-201**  
**GEOS_V 305-202** Introduction to Hydrology  
W2  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Mon Wed  
3:30 p.m. - 5:00 p.m.

**GEOS_V 305-202**  
**GEOS_V 305-201** Introduction to Hydrology  
W2  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Mon Wed  
3:30 p.m. - 5:00 p.m.

**GEOS_V 307-201**  
**GEOS_V 307-202** Biogeography and Global Change  
W2  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Mon Wed  
3:30 p.m. - 5:00 p.m.

**GEOS_V 307-202**  
**GEOS_V 307-201** Biogeography and Global Change  
W2  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Mon Wed  
3:30 p.m. - 5:00 p.m.

**GEOS_V 307-203**  
**GEOS_V 307-204** Biogeography and Global Change  
W2  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Mon Wed  
3:30 p.m. - 5:00 p.m.

**GEOS_V 307-204**  
**GEOS_V 307-203** Biogeography and Global Change  
W2  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Mon Wed  
3:30 p.m. - 5:00 p.m.

**GEOS_V 307-205**  
**GEOS_V 307-206** Biogeography and Global Change  
W2  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Mon Wed  
3:30 p.m. - 5:00 p.m.

**GEOS_V 307-206**  
**GEOS_V 307-205** Biogeography and Global Change  
W2  
Computer-based graphical methods of data input and analysis. Emphasis on data visualization techniques such as cartographic modelling and exploratory data analysis.  
In Person Learning  
Mon Wed  
3:30 p.m. - 5:00 p.m.
Biogeographic concepts is 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 BIO 230, GEO 237, GEO 237, FRST 201. [3-2*-0] In Person Learning Thu 3:00 p.m. - 4:00 p.m.

Geographical Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENGC, GIS, ENST, URB, or GIS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0] In Person Learning Mon Wed 12:00 p.m. - 2:00 p.m.

Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENGC, GIS, ENST, URB, or GIS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0] In Person Learning Tue Thu 2:00 p.m. - 4:10 p.m.

Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENGC, GIS, ENST, URB, or GIS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0] In Person Learning Mon 3:30 p.m. - 5:30 p.m.

Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENGC, GIS, ENST, URB, or GIS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0] In Person Learning Tue 3:30 p.m. - 5:30 p.m.

Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENGC, GIS, ENST, URB, or GIS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0] In Person Learning Fri 12:00 p.m. - 2:00 p.m.

Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENGC, GIS, ENST, URB, or GIS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0] In Person Learning Mon 3:30 p.m. - 5:30 p.m.

Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENGC, GIS, ENST, URB, or GIS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0] In Person Learning Tue 3:30 p.m. - 5:30 p.m.

Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENGC, GIS, ENST, URB, or GIS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0] In Person Learning Fri 12:00 p.m. - 2:00 p.m.

Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENGC, GIS, ENST, URB, or GIS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0] In Person Learning Mon 3:30 p.m. - 5:30 p.m.

Theoretical and practical aspects of Geographic Information Systems, including cartographic modelling, digital terrain models, management issues, and spatial interpolation. Recommended pre-requisites: Third-year standing in ENGC, GIS, ENST, URB, or GIS (or GEOB) specializations, with some introductory knowledge of GIS. [2-2-0] In Person Learning Fri 12:00 p.m. - 2:00 p.m.

Cartographic methods: development of cartography, projections, data ordering, compilation and cartographic design, map reproduction. Recommended pre-requisites: one of GEOB 102, GIS 103, GEOB 103, GEO 103. [2-2-0] In Person Learning Mon Wed Arranged Arranged
GEOS_V 373-12C GEOS_V 373 L2C Introductory Remote Sensing W2 Aerial photography, measurement from aerial photographs; photo-interpretation in geographic analysis; remote sensing of the earth's surface and atmosphere. Recommended pre-requisites: one of GEOB 270, GEOS 270, or three-year standing in ENVR or GEOS (or GEOG) specialization. [3-2*-0] 4 In Person|Learning Web 2:00 p.m. - 4:00 p.m. Online Learning

GEOS_V 405-101 GEOS_V 405-101 Urban Meteorology W2 The nature of atmospheric pollutants. The ability of the atmosphere to disperse, transform, and remove pollutants. Air pollution dispersion models. Air quality monitoring, criteria, and standards. [2-3-0] Pre-requisites: one of GEOB 206, GEOS 206, GEOB 508, GEOB 380. Online Learning Tue Thu 12:30 a.m. - 1:30 a.m.

GEOS_V 405-201 GEOS_V 405-201 Rural Geomorphology W2 Introduction to open channel flow and sediment transport. River morphology and channel types. Paleohydrology. The development of channel networks. Recommended pre-requisites: one of GEOC 320, GEOS 206, GEOB 508, [2-3-0] 3 In Person Learning


GEOS_V 406-12A GEOS_V 406-12A Watershed Geomorphology W1 Hillside and stream channel processes and their rates of operation. Analysis and modeling of geomorphic processes and associated hazards at the watershed scale. Applications in geoscience and engineering. Recommended pre-requisites: one of GEOB 206, GEOS 206, [2-3-0] 3 In Person Learning

GEOS_V 407-201 GEOS_V 407-201 Vegetation Dynamics: Disturbance, Climate and Human Impacts W2 Investigation of vegetation dynamics integrating theory and research to address contemporary issues of global environmental change. Students will conduct fieldwork and learn to analyze data and interpret results. [2-3-0] Pre-requisites: One of BIOL 230, GEOS 207, 205, FIST 201. In Person Learning

GEOS_V 408-A_101 GEOS_V 408-A_101 Directed Studies in Geological Sciences W1 For fourth-year students in Geography to permit investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the department head and of a supervisory faculty member is required. Credit will be granted for only one of GEOB 448, GEOS 448 or ENSC 448. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning

GEOS_V 408-A_201 GEOS_V 408-A_201 Directed Studies in Geological Sciences W2 For fourth-year students in Geography to permit investigation of a topic to be agreed upon by a member of the faculty and the student. Permission of the department head and of a supervisory faculty member is required. Credit will be granted for only one of GEOB 448, GEOS 448 or ENSC 448. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning

GEOS_V 409-A_001 GEOS_V 409-A_001 Undergraduate Thesis W1-2 Original research in an approach developed under the guidance of a faculty member. Open to 4th year students in Geographical Sciences with appropriate background courses related to the research topic, and permission of the directing faculty member. The 3-credit option is only available to students who complete GEOS 448 in tandem with GEOS 449. In Person Learning

GEOS_V 423-101 GEOS_V 423-101 Research in Cartography W2 Use of cartography in primary research applications. Discussion of contemporary topics in cognitive, social, architectural cartography and data visualization. Recommended pre-requisites: one of GEOS 270, GEOS 270, GEOS 370, GEOS 372, [2-3*-0] 3-3 In Person Learning

GEOS_V 479-201 GEOS_V 479-201 Research in Geographic Information Science W1 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-requisites: One of GEOS 270, GEOS 370. In Person Learning

GEOS_V 500-101 GEOS_V 500-101 Theory and Practice of Research in Geographical Sciences W1 Credit will be granted for only one of GEOB 550 or GEOS 550. Restricted to M.A. GEOG, M.Sc. GEOG, or PhD GEOG. This course is not eligible for Credit/D/Fail grading. 4 In Person Learning

GEOS_V 508-A_201 GEOS_V 508-A_201 Advanced Seminar in Geomorphology W2 Credit will be granted for only one of GEOB 550 or GEOS 550. This course is not eligible for Credit/D/Fail grading. 4 In Person Learning

GEOS_V 509-001 GEOS_V 509-001 Master's Thesis W1-2 Pass/Fail. Restricted to MSc in Geographical students. This course is not eligible for Credit/D/Fail grading. In Person Learning

GEOS_V 509-002 GEOS_V 509-002 Master's Thesis W1-2 Pass/Fail. Restricted to MSc in Geographical students. This course is not eligible for Credit/D/Fail grading. In Person Learning

GEOS_V 509-003 GEOS_V 509-003 Master's Thesis W2 Pass/Fail. Restricted to MSc in Geographical students. This course is not eligible for Credit/D/Fail grading. In Person Learning

GERN_v 301-101 GERN_v 301-101 Learning German 1 W1 Introduction to the language for beginners. Ability to identify unique features and communicate in everyday situations. Find out more at https://cames.ucb.ca/courses/. Credit will be granted for only one of GEREM 101 or GERN 101L. Equivalence: GEREM101 In Person Learning

GERN_v 301-102 GERN_v 301-102 Learning German 1 W1 Introduction to the language for beginners. Ability to identify unique features and communicate in everyday situations. Find out more at https://cames.ucb.ca/courses/. Credit will be granted for only one of GEREM 101 or GERN 101L. Equivalence: GEREM101 In Person Learning

GERN_v 301-103 GERN_v 301-103 Learning German 1 W1 Introduction to the language for beginners. Ability to identify unique features and communicate in everyday situations. Find out more at https://cames.ucb.ca/courses/. Credit will be granted for only one of GEREM 101 or GERN 101L. Equivalence: GEREM101 In Person Learning
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<th>CRN</th>
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<th>Time</th>
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<td>Mon Thu</td>
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<td>Tue Thu</td>
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<td>105</td>
<td>Learning German 5</td>
<td>In Person</td>
<td>Tue Thu</td>
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<td>106</td>
<td>Learning German 6</td>
<td>In Person</td>
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</table>

Introduction to the language for beginners. Ability to identify unique features and communicate in everyday situations. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 100 or GERN 101. Equivalency: GERM100

Continuation of GERN 101. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 101 or GERN 102. Equivalency: GERM101

Continuation of GERN 201. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 201 or GERN 202. Equivalency: GERM201

Continuation of GERN 301. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 300 or GERN 301. Equivalency: GERM300

Continuation of GERN 302. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 301 or GERN 302. Equivalency: GERM301

Continuation of GERN 401. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 401 or GERN 402. Equivalency: GERM401
GERN_V 304-202 GERN_V 304 202 German for Reading Knowledge I W2

Reading skills in German leading to a second year reading knowledge in just one term. Students are expected to work largely independently. Course meant for students with no or very little German (i.e. no more than GERN 101). Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 403 or GERM 204. Equivalency: GERM403

Online Learning Mon Wed Fri 4:00 p.m. - 5:00 p.m.

GERN_V 304-203 GERN_V 304 203 German for Reading Knowledge I W2

Reading skills in German leading to a second year reading knowledge in just one term. Students are expected to work largely independently. Course meant for students with no or very little German (i.e. no more than GERN 101). Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 403 or GERM 204. Equivalency: GERM403

Online Learning Wed 6:00 p.m. - 9:00 p.m.

GERN_V 347-101 GERN_V 347 101 Discipline and Literature: Studies in the 30th Century W1

Nineteenth-century Germainophone literature against the larger background of the political and social developments of the period. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 360 or GERM 364. Equivalency: GERM360

In Person Learning Mon Wed 2:00 p.m. - 4:20 p.m.

GERN_V 212-101 GERN_V 212 101 Fairy Tales and Popular Culture W1

Explore 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 GERM 122. Equivalency: GERM121

Online Learning Mon Wed 10:30 a.m. - 2:00 p.m.

GERN_V 212-201 GERN_V 212 201 Fairy Tales and Popular Culture W2

Explore 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 GERM 122. Equivalency: GERM121

In Person Learning Mon Wed 10:30 a.m. - 2:00 p.m.

GERN_V 274-101 GERN_V 274 101 The Frankfurt School W1

Foundations of critical theory, and key media and cultural studies concepts developed by the members of the Frankfurt Institute of Social Research (1923-). Core collaborations and followers. Credit will be granted for only one of GERM 207 or GERM 274. Equivalency: GERM207

In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.

GERN_V 335-101 GERN_V 335 101 German Cinema W1

Screening, discussion, and critical analysis of influential cinema from German-speaking societies from the silent era to the 21st century. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 360 or GERM 364. Equivalency: GERM360

Multi-access Learning Tue Thu 9:30 a.m. - 11:00 a.m.

GERN_V 335-102 GERN_V 335 102 German Cinema W1

Screening, discussion, and critical analysis of influential cinema from German-speaking societies from the silent era to the 21st century. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 360 or GERM 364. Equivalency: GERM360

In Person Learning Arranged Arranged

GERN_V 335-201 GERN_V 335 201 German Cinema W2

Screening, discussion, and critical analysis of influential cinema from German-speaking societies from the silent era to the 21st century. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 360 or GERM 364. Equivalency: GERM360

Online Learning Tue Thu 3:30 p.m. - 5:00 p.m.

GERN_V 341-101 GERN_V 341 101 Germanophone Literature before 1800 W1

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 360 or GERM 364. Equivalency: GERM360

Multi-access Learning Tue Thu 3:30 p.m. - 5:00 p.m.

GERN_V 342-101 GERN_V 342 101 German Media Studies W1

Germanophone literature of the Middle Ages, Renaissance, and Baroque against the larger background of the political and social developments of the period. Find out more at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 360 or GERM 362. Equivalency: GERM360

Multi-access Learning Tue Thu 3:30 p.m. - 5:00 p.m.

GERN_V 420-A_121 GERM_V 420 A_121 Studies in Modern German-speaking Culture W2

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 GERM 430. Equivalency: GERM420

In Person Learning Arranged Arranged

GERN_V 420-A_201 GERM_V 420 A_201 Studies in Modern German-speaking Culture W2

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 GERM 430. Equivalency: GERM420

In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.

GERN_V 424-201 GERM_V 424 201 Selected Issues in German-speaking Culture W2

In depth study of one topic from German-speaking cultural history, varying from year to year. Find out which topic(s) will be explored in the current or coming year at https://cenes.ubc.ca/courses/. Credit will be granted for only one of GERM 420 or GERM 424. Equivalency: GERM424

In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

GERN_V 440-A_201 GERM_V 440 A_201 Selected Topics in Germanophone Literature W2

Topics of special interest, varying from year to year. Find out which topic(s) will be explored in the current or coming year at https://cenes.ubc.ca/courses/. A maximum of 6 credits will be granted for GERM 440 or GERM 445. Equivalency: GERM440

In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.

GERN_V 445-201 GERM_V 445 201 Words and Music in Germanophone Literature W2

Individual works and genres in which words and music together form a whole. Possible topics include the Lutheran hymn, the Villikel, the Romantic lied and Lieder, songs, orly songs, Mass, 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 430 or GERM 455. Equivalency: GERM430

Multi-access Learning Tue Thu 3:30 p.m. - 5:30 p.m.

GERN_V 515-201 GERM_V 515 201 German Media Studies W1

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 422 or GERM 455. Equivalency: GERM420

In Person Learning Thu 3:30 p.m. - 6:30 p.m.

GERN_V 500-A_121 GERM_V 500 A_121 German Studies Research Methods W1

A maximum of 6 credits will be granted for GERM 500 or GERM 501. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM500

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

GERN_V 500-B_201 GERM_V 500 B_201 German Studies Research Methods W2

A maximum of 6 credits will be granted for GERM 500 or GERM 501. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM500

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

GERN_V 506-A_101 GERM_V 506 A_101 Intercultural Competence W1

A maximum of 6 credits will be granted for GERM 506 or GERM 507. This course is not eligible for Credit/D/Fail grading. Equivalency: GERM506

In Person Learning Wed 2:00 p.m. - 5:00 p.m.
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<td>GREK_V 517 A 101</td>
<td>GREK_V</td>
<td>517 A</td>
<td>A 101</td>
<td>Studies in the Literature of the 10th Century</td>
<td>W1</td>
<td>Multi-access Learning</td>
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<td>GMST_V 521-01</td>
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<td>521</td>
<td>201</td>
<td>German Cultural Studies</td>
<td>W2</td>
<td>In Person Learning</td>
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<td>GMST_V 523-D 101</td>
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<td>523 D</td>
<td>D 101</td>
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<td>547 B</td>
<td>B 101</td>
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<td>B 201</td>
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<td>W2</td>
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<td>W1</td>
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<td>W1-2</td>
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<td>GREK_V 101-001</td>
<td>GREK_V</td>
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<td>001</td>
<td>Beginning Ancient Greek</td>
<td>W1</td>
<td>Classical and Hellenistic Greek, Part I.</td>
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<td>GREK_V 101-002</td>
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<td>Classical and Hellenistic Greek, Part I.</td>
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<td>GREK_V 101-003</td>
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<td>003</td>
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<td>GREK_V 102-001</td>
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<td>Intermediate Ancient Greek</td>
<td>W2</td>
<td>Classical and Hellenistic Greek, Part II, Prerequisite: GREK 101.</td>
<td>In Person Learning</td>
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<td>GREK_V 102-002</td>
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<td>102</td>
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<td>Intermediate Ancient Greek</td>
<td>W2</td>
<td>Classical and Hellenistic Greek, Part II, Prerequisite: GREK 102.</td>
<td>In Person Learning</td>
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<td>201</td>
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<td>Intermediate Ancient Greek</td>
<td>W1</td>
<td>Completion of the grammatical foundations of Ancient Greek, Part I, Prerequisite: GREK 101.</td>
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<td>GREK_V 202-001</td>
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<td>202</td>
<td>001</td>
<td>Intermediate Ancient Greek</td>
<td>W2</td>
<td>Completion of the grammatical foundations of Ancient Greek, Part II, Introduction to the reading of unabridged passages of Greek literature, Prerequisite: GREK 201.</td>
<td>In Person Learning</td>
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<td>GREK_V 203-001</td>
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<td>001</td>
<td>Intermediate Ancient Greek</td>
<td>W2</td>
<td>Completion of the grammatical foundations of Ancient Greek, Part III, Introduction to the reading of unabridged passages of Greek literature, Prerequisite: GREK 201.</td>
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<tr>
<td>GREK_V 301-001</td>
<td>GREK_V</td>
<td>301</td>
<td>001</td>
<td>Reading Ancient Greek: Prose</td>
<td>W2</td>
<td>Readings in the major authors in Greek prose, Prerequisite: GREK 202.</td>
<td>In Person Learning</td>
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<tr>
<td>GREK_V 302-001</td>
<td>GREK_V</td>
<td>302</td>
<td>001</td>
<td>Reading Ancient Greek: Verse</td>
<td>W1</td>
<td>Readings in the major authors in Greek verse, Prerequisite: GREK 202.</td>
<td>In Person Learning</td>
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</table>
Reading Ancient Greek: Verse [0-0-2] Prerequisite: GRS 290. 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.

Global Issues in Cultural Context [0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

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 401, GREK 501. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GREK 351, GREK 352.

Studies in epic, tragedy and oratory. A maximum of 12 credits can be granted for either one of or any combination of GREK 401, GREK 501. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GREK 351, GREK 352.

Studies in Ancient Greek Prose and Verse [0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

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.

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.

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.

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 401, GREK 501. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GREK 351, GREK 352.

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 401, GREK 501. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GREK 351, GREK 352.

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 401, GREK 501. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GREK 351, GREK 352.

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 401, GREK 501. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GREK 351, GREK 352.

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.

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 401, GREK 501. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of GREK 351, GREK 352.

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.

Energy water nexus for sustaining ecological goods and services, and food security; significance in global resource systems. Prerequisite: One of CHM 111, CHM 112 and one of BIO 112, BIO 113, BIO 160. [0-0-2] Prerequisite: Open only to students in the B.Sc. (GRS) program.

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.

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor</th>
<th>Mode of Learning</th>
<th>Schedule</th>
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<td>GRSJ V 101-201</td>
<td>Global Issues in Social Justice</td>
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<td>In Person Learning</td>
<td>Tue Thu 3:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>GRSJ V 200-101</td>
<td>Gender and Environmental Justice</td>
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<td></td>
<td>In Person Learning</td>
<td>Mon Wed Fri 1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>GRSJ V 210-201</td>
<td>Gender, Race and Colonialism in the Americas</td>
<td>W2</td>
<td></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>GRSJ V 224-A_101</td>
<td>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</td>
<td>W1</td>
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<td>In Person Learning</td>
<td>Mon Wed Fri 9:30 a.m. - 11:00 a.m.</td>
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<td>GRSJ V 224-A_102</td>
<td>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</td>
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<td>Mon Wed Fri 9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>GRSJ V 224-B_201</td>
<td>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</td>
<td>W2</td>
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<td>Mon Wed Fri 1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>GRSJ V 224-C_101</td>
<td>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</td>
<td>W1</td>
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<td>In Person Learning</td>
<td>Mon Wed Fri 3:30 p.m. - 5:00 p.m.</td>
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<td>GRSJ V 226-201</td>
<td>Human Rights and Artistic Expression: Thinking Beyond the Legal</td>
<td>W2</td>
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<td>Mon Wed Fri 3:00 p.m. - 4:00 p.m.</td>
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<td>GRSJ V 230-201</td>
<td>Gender, Race, Sexuality, and Representation in Modern Asia</td>
<td>W1</td>
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<td>Mon Wed Fri 2:00 p.m. - 3:00 p.m.</td>
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<td>GRSJ V 235-101</td>
<td>Youth Activism and Social Justice</td>
<td>W1</td>
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<td>Mon Wed Fri 2:00 p.m. - 3:00 p.m.</td>
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<td>GRSJ V 300-801</td>
<td>Intersectional Approaches to Thinking Gender</td>
<td>W1</td>
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<td>GRSJ V 300-802</td>
<td>Intersectional Approaches to Thinking Gender</td>
<td>W2</td>
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<tr>
<td>GRSJ V 300-90A</td>
<td>Intersectional Approaches to Thinking Gender</td>
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<td>GRSJ V 300-90C</td>
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<td>GRSJ V 301-201</td>
<td>Gender, Race and Inequality in Canada</td>
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<td>GRSJ V 302-101</td>
<td>Pedagogy of Social Justice</td>
<td>W1</td>
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<td>GRSJ V 303-201</td>
<td>Gender, Race, Social Justice and the Law</td>
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<td>GRSJ V 304-101</td>
<td>Emerging Technologies in the areas of Digital Affect Therapy, Cyber Feminism, Critical Digital Humanities, Critical Race Studies, Surveillance Studies, and Queer Game Studies</td>
<td>W1</td>
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<td>Mon Wed Fri 11:00 a.m. - 12:30 p.m.</td>
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In Person Learning
Critical Racial and Anti-Colonial Feminist Approaches
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1:00 p.m. - 2:00 p.m.

In Person Learning
Globalization and Social Justice: Gender, Race, and Sexuality in International Politics
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In Person Learning
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307
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In Person Learning
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In Person Learning
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In Person Learning
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315
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W2

In Person Learning
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In Person Learning
Feminist Anti-Racist Pedagogies
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In Person Learning
The Politics of Gender, Families, and Housing-Building
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In Person Learning
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In Person Learning
Special Topics in Gender, Race, and Sexuality
425
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In Person Learning
Special Topics in Gender, Race, and Sexuality
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In Person Learning
Special Topics in Gender, Race, and Sexuality
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In Person Learning
Directed Studies
450
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In Person Learning
Examination in depth of selected topics in gender, race, and sexuality. Consult the Student Service Centre course schedule for course offerings. May be repeated for credit. Recommended pre-requisites: either all of GRSJ 101, GRSJ 102 or third-year standing.

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<td>GRSJ V 450-C_201</td>
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<td>C_201</td>
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<td>GRSJ V 480-A_201</td>
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<td>GRSJ V 500-001</td>
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<td>Extended Essay</td>
<td>Restricted to students in one of MA GRSJ, PhD GRSJ. This course is not eligible for Credit/D/Fail grading.</td>
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<td>GRSJ V 501-101</td>
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<td>101</td>
<td>Issues in Decolonizing and Feminist Methodologies</td>
<td>Restricted to students in one of MA GRSJ, PhD GRSJ. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>GRSJ V 502-101</td>
<td>502</td>
<td>101</td>
<td>Issues in Gender, Sexuality, and Critical Race Theories</td>
<td>Restricted to students in one of MA GRSJ, PhD GRSJ. This course is not eligible for Credit/D/Fail grading.</td>
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<td>GRSJ V 503-B_201</td>
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<td>GRSJ V 503-C_201</td>
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<td>C_201</td>
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<td>GRSJ V 510-001</td>
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<td>Extended Essay</td>
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<td>GRSJ V 511-001</td>
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<td>Difficult Knowledge: Ethics and Praxis of Research in Challenging Settings</td>
<td>Interdisciplinary seminar considering the ethics and praxis of working with difficult knowledge, such as highly divisive questions of memory, and responsibility in the context and aftermath of oppression and mass violence. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>GRSJ V 515-A_201</td>
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<td>Critical and Creative Social Justice Studies Seminars</td>
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<td>GRSJ V 520-B_201</td>
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<td>B_203</td>
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<td>GRSJ V 606-001</td>
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<td>GSAT_V 501-001</td>
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<td>GSAT_V 503-003</td>
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<td>W2</td>
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<td>GSAT_V 599-003</td>
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<td>Master's Thesis</td>
<td>W1-2</td>
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<tr>
<td>HGSE_V 359-610</td>
<td>Ecosystem-Based Management Seminar</td>
<td>1.5</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
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<td>HGSE_V 356-610</td>
<td>Biophysical Dynamics of the Marine-Terrestrial Interface</td>
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<td>Doctoral Dissertation</td>
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<td>Ecology and Management of Island Wildlife</td>
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<td>Doctoral Dissertation</td>
<td>W1</td>
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<tr>
<td>HGSE_V 358-610</td>
<td>Ocean People, Culture and Tradition</td>
<td>1.5</td>
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<td>W1</td>
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<tr>
<td>HGSE_V 370-610</td>
<td>Introduction to Resilience Theory in Community</td>
<td>1</td>
<td>Directed Study</td>
<td>W2</td>
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</tbody>
</table>

- **Mon Wed Fri**: Monday, Wednesday, Friday
- **Tue Thu**: Tuesday, Thursday
- **Pass/Fail**: Pass/Fail grading
- **Online Learning**: Online learning
- **In Person Learning**: In person learning
- **Directed Study**: Directed study
- **Intensive Laboratory Course**: Intensive laboratory course
- **Master's Thesis**: Master's thesis
- **Doctoral Dissertation**: Doctoral dissertation
- **Advanced Study**: Advanced study under the direction of a faculty member composed of laboratory sessions and/or directed readings related to selected areas of genome science and technology. This course is not eligible for Credit/D/Fail grading.
- **201**: Course 201
- **205**: Course 205
- **352**: Course 352
- **355**: Course 355
- **356**: Course 356
- **357**: Course 357
- **358**: Course 358
- **360**: Course 360
- **361**: Course 361
- **370**: Course 370
- **501**: Course 501
- **502**: Course 502
- **503**: Course 503
- **503**: Course 503
- **540**: Course 540
- **606**: Course 606
- **610**: Course 610
- **A_201**: Course A_201
- **A_S2B**: Course A_S2B
- **A**: In Person Learning
- **W1**: Winter semester
- **W2**: Winter semester

### Course Descriptions

- **Ecosystem-Based Management Seminar**: History, definitions, and applications of EBM; challenges of achieving both economic and environmental well-being with a focus on resource use and management on Haida Gwaii. Part of the Haida Gwaii Fall Semester. Prerequisite: Third-year standing.
- **Ecology and Management of Island Wildlife**: Unique biological attributes of island wildlife, such as subspecies, isolated populations, and distinct evolutionary pathways, with a focus on endemic species on Haida Gwaii. Part of the Haida Gwaii Fall Semester. Credit will be granted for only one of FRST 395 or HGSE 357. Prerequisite: Third-year standing.
- **History, definitions, and applications of EBM**: challenges of achieving both economic and environmental well-being with a focus on resource use and management on Haida Gwaii. Part of the Haida Gwaii Fall Semester. Prerequisite: Third-year standing.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor</th>
<th>Mode</th>
<th>Schedule</th>
<th>Pre-Requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST_V 201-001</td>
<td>Introductory Hindi-Urdu</td>
<td></td>
<td>In Person Learning</td>
<td>Mon Wed 9:00 a.m. - 10:00 a.m.</td>
<td>Spoken and written Hindi and Urdu. As of 2011W, credit will be granted for only one of HINU 100/101 or HINU 102. Recommended pre-requisites: one of HINU 101, HINU 102.</td>
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<tr>
<td>HIST_V 200-001</td>
<td>Intermediate Hindi-Urdu</td>
<td></td>
<td>In Person Learning</td>
<td>Mon Wed 9:00 a.m. - 10:00 a.m.</td>
<td>Spoken and written Hindi and Urdu. As of 2011W, credit will be granted for only one of HINU 200/202 or HINU 206. Recommended pre-requisites: one of HINU 101, HINU 102.</td>
</tr>
<tr>
<td>HIST_V 100-101</td>
<td>What is History?</td>
<td></td>
<td>In Person Learning</td>
<td>Mon Wed 9:00 a.m. - 10:00 a.m.</td>
<td>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.</td>
</tr>
<tr>
<td>HIST_V 100-11A</td>
<td>What is History?</td>
<td></td>
<td>In Person Learning</td>
<td>Fri 1:00 p.m. - 2:00 p.m.</td>
<td>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.</td>
</tr>
<tr>
<td>HIST_V 100-11B</td>
<td>What is History?</td>
<td></td>
<td>In Person Learning</td>
<td>Fri 11:00 a.m. - 12:00 p.m.</td>
<td>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.</td>
</tr>
<tr>
<td>HIST_V 100-11C</td>
<td>What is History?</td>
<td></td>
<td>In Person Learning</td>
<td>Fri 10:00 a.m. - 12:00 p.m.</td>
<td>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.</td>
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<tr>
<td>HIST_V 100-120</td>
<td>What is History?</td>
<td></td>
<td>In Person Learning</td>
<td>Thu 12:00 p.m. - 1:00 p.m.</td>
<td>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.</td>
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<tr>
<td>HIST_V 100-081</td>
<td>Global History to 1500 CE</td>
<td></td>
<td>In Person Learning</td>
<td>Mon 9:00 a.m. - 10:00 a.m.</td>
<td>Introduction to premodern human societies of Asia, Africa, Europe, and the Americas and cultural, political, social, economic, and religious exchanges from a global history perspective and introduction to historical practices.</td>
</tr>
<tr>
<td>HIST_V 100-101</td>
<td>Global History to 1500 CE</td>
<td></td>
<td>In Person Learning</td>
<td>Fri 9:00 a.m. - 10:00 a.m.</td>
<td>The civilizations of Asia, Europe, Africa and the Americas, with emphasis on the political, economic, ecological and cultural links among them, and the impact of oceanic contact, imperialism, warfare, migration, and globalization.</td>
</tr>
<tr>
<td>HIST_V 102-081</td>
<td>World History from 1500 to the Twentieth Century</td>
<td></td>
<td>In Person Learning</td>
<td>Mon Wed 9:00 a.m. - 10:00 a.m.</td>
<td>The civilizations of Asia, Europe, Africa and the Americas, with emphasis on the political, economic, ecological and cultural links among them, and the impact of oceanic contact, imperialism, warfare, migration, and globalization.</td>
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<td>HIST_V 102-082</td>
<td>World History from 1500 to the Twentieth Century</td>
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<td>In Person Learning</td>
<td>Mon Wed 9:00 a.m. - 10:00 a.m.</td>
<td>The civilizations of Asia, Europe, Africa and the Americas, with emphasis on the political, economic, ecological and cultural links among them, and the impact of oceanic contact, imperialism, warfare, migration, and globalization.</td>
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<td>HIST_V 102-101</td>
<td>World History from 1500 to the Twentieth Century</td>
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<td>In Person Learning</td>
<td>Mon 9:00 a.m. - 10:00 a.m.</td>
<td>The civilizations of Asia, Europe, Africa and the Americas, with emphasis on the political, economic, ecological and cultural links among them, and the impact of oceanic contact, imperialism, warfare, migration, and globalization.</td>
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<td>HIST_V 102-102</td>
<td>World History from 1500 to the Twentieth Century</td>
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<td>In Person Learning</td>
<td>Mon Wed 9:00 a.m. - 10:00 a.m.</td>
<td>The civilizations of Asia, Europe, Africa and the Americas, with emphasis on the political, economic, ecological and cultural links among them, and the impact of oceanic contact, imperialism, warfare, migration, and globalization.</td>
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<td>HIST_V 102-103</td>
<td>World History from 1500 to the Twentieth Century</td>
<td></td>
<td>In Person Learning</td>
<td>Mon Wed 9:00 a.m. - 10:00 a.m.</td>
<td>The civilizations of Asia, Europe, Africa and the Americas, with emphasis on the political, economic, ecological and cultural links among them, and the impact of oceanic contact, imperialism, warfare, migration, and globalization.</td>
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<td>HIST_V 102-104</td>
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<td>In Person Learning</td>
<td>Mon Wed 9:00 a.m. - 10:00 a.m.</td>
<td>The civilizations of Asia, Europe, Africa and the Americas, with emphasis on the political, economic, ecological and cultural links among them, and the impact of oceanic contact, imperialism, warfare, migration, and globalization.</td>
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<tr>
<td>HIST_V 102-105</td>
<td>World History from 1500 to the Twentieth Century</td>
<td></td>
<td>In Person Learning</td>
<td>Mon Wed 9:00 a.m. - 10:00 a.m.</td>
<td>The civilizations of Asia, Europe, Africa and the Americas, with emphasis on the political, economic, ecological and cultural links among them, and the impact of oceanic contact, imperialism, warfare, migration, and globalization.</td>
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<td>HIST_V 102-106</td>
<td>World History from 1500 to the Twentieth Century</td>
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<td>In Person Learning</td>
<td>Mon Wed 9:00 a.m. - 10:00 a.m.</td>
<td>The civilizations of Asia, Europe, Africa and the Americas, with emphasis on the political, economic, ecological and cultural links among them, and the impact of oceanic contact, imperialism, warfare, migration, and globalization.</td>
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<td>HIST_V 102-107</td>
<td>World History from 1500 to the Twentieth Century</td>
<td></td>
<td>In Person Learning</td>
<td>Mon Wed 9:00 a.m. - 10:00 a.m.</td>
<td>The civilizations of Asia, Europe, Africa and the Americas, with emphasis on the political, economic, ecological and cultural links among them, and the impact of oceanic contact, imperialism, warfare, migration, and globalization.</td>
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<td>Location</td>
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<td>Type</td>
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<td>102 L08</td>
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<td>HIST_V</td>
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<td>HIST_V</td>
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<td>HIST_V</td>
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<td>A   L1A</td>
<td>Topics in World History</td>
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<td>In Person Learning</td>
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<tr>
<td>HIST_V</td>
<td>104</td>
<td>A   L1B</td>
<td>Topics in World History</td>
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<td>In Person Learning</td>
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<td>Title</td>
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<td>Hist_V 104-A_1LC</td>
<td>104 A</td>
<td>A, 1LC</td>
<td>Topics in World History</td>
<td>Thematic discussion topics will explore global aspects of human experience across time. Each section will examine a single theme. Check with the department for course offerings.</td>
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<tr>
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<td>104 A</td>
<td>A, 1LD</td>
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<td>Thematic discussion topics will explore global aspects of human experience across time. Each section will examine a single theme. Check with the department for course offerings.</td>
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<tr>
<td>Hist_V 106-E_101</td>
<td>106 E</td>
<td>E, 101</td>
<td>Topics in World History</td>
<td>Thematic discussion topics will explore global aspects of human experience across time. Each section will examine a single theme. Check with the department for course offerings.</td>
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<td>Hist_V 106-E_101</td>
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<td>E, 101</td>
<td>Topics in World History</td>
<td>Thematic discussion topics will explore global aspects of human experience across time. Each section will examine a single theme. Check with the department for course offerings.</td>
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<td>Hist_V 106-F_101</td>
<td>104 F</td>
<td>F, 101</td>
<td>Topics in World History</td>
<td>Thematic discussion topics will explore global aspects of human experience across time. Each section will examine a single theme. Check with the department for course offerings.</td>
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<td>Hist_V 106-F_101</td>
<td>104 F</td>
<td>F, 101</td>
<td>Topics in World History</td>
<td>Thematic discussion topics will explore global aspects of human experience across time. Each section will examine a single theme. Check with the department for course offerings.</td>
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<tr>
<td>Hist_V 106-B_201</td>
<td>106 B</td>
<td>B, 201</td>
<td>Contemporary Global Issues in Historical Perspective</td>
<td>Places issues and problems of current relevance such as disease, terrorism, drugs, or ethnic conflict in historical perspective. Each section will explore a single theme. Check with department for course offerings.</td>
<td></td>
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<tr>
<td>Hist_V 106-B_201</td>
<td>106 B</td>
<td>B, 201</td>
<td>Contemporary Global Issues in Historical Perspective</td>
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<td></td>
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<tr>
<td>Hist_V 104-A_101</td>
<td>106 A</td>
<td>A_101</td>
<td>Global Environmental History</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Hist_V 104-A_101</td>
<td>106 A</td>
<td>A_101</td>
<td>Global Environmental History</td>
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<td>Hist_V 104-E_101</td>
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<td>E_101</td>
<td>Global Environmental History</td>
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<td>Global Environmental History</td>
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</tbody>
</table>

**Topics in World History**

- **Fri, 104**
  - Global Indigenous Histories
  - In Person Learning
  - 2:00 p.m. - 3:00 p.m.

- **Wed, 101**
  - Global Indigenous Histories
  - In Person Learning
  - 12:00 p.m. - 1:00 p.m.

- **Fri, 101**
  - Global History of Capitalism
  - In Person Learning
  - 10:00 a.m. - 11:00 a.m.

- **Wed, 101**
  - Global History of Capitalism
  - In Person Learning
  - 11:00 a.m. - 12:30 p.m.

- **Mon, 106**
  - Global Indigenous Histories
  - In Person Learning
  - 9:30 a.m. - 11:00 a.m.

- **Fri, 201**
  - Global Indigenous Histories
  - In Person Learning
  - 12:00 p.m. - 1:30 p.m.

- **Fri, 108**
  - Global Indigenous Histories
  - In Person Learning
  - 2:00 p.m. - 3:30 p.m.

- **Mon, 106**
  - Global Indigenous Histories
  - In Person Learning
  - 10:00 a.m. - 11:00 a.m.

- **Wed, 107**
  - Global Indigenous Histories
  - In Person Learning
  - 11:00 a.m. - 12:30 p.m.

- **Fri, 107**
  - Global Indigenous Histories
  - In Person Learning
  - 12:00 p.m. - 1:30 p.m.

- **Fri, 107**
  - Global Indigenous Histories
  - In Person Learning
  - 2:00 p.m. - 3:30 p.m.

- **Wed, 107**
  - Global Indigenous Histories
  - In Person Learning
  - 11:00 a.m. - 12:30 p.m.

- **Fri, 107**
  - Global Indigenous Histories
  - In Person Learning
  - 12:00 p.m. - 1:30 p.m.

- **Fri, 107**
  - Global Indigenous Histories
  - In Person Learning
  - 2:00 p.m. - 3:30 p.m.

- **Wed, 107**
  - Global Indigenous Histories
  - In Person Learning
  - 11:00 a.m. - 12:30 p.m.

- **Fri, 107**
  - Global Indigenous Histories
  - In Person Learning
  - 12:00 p.m. - 1:30 p.m.

- **Fri, 107**
  - Global Indigenous Histories
  - In Person Learning
  - 2:00 p.m. - 3:30 p.m.
Exploration of global histories through video games and uses of video games for research by historians.

Selected themes and historical approaches in European history; may include Europe's history of religious conflict, state formation, colonialism, rationality, industrialization, revolution, total war, globalization, genocide, or environmental change.

An introduction to major turning points in Canadian history. Exploration of the social, political, cultural, and environmental transformations/revolutions that have shaped Canada from early European colonization to the twenty-first century.

The discipline of history through the study of photographs. Explores themes such as colonialism, orientalism, the mass media, representations of gender and sexuality, and protest through photographic evidence. Multi-access learning

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An introduction to major turning points in Canadian history. Exploration of the social, political, cultural, and environmental transformations/revolutions that have shaped Canada from early European colonization to the twenty-first century.

The history of capitalism in its global dimension from the beginnings to the age of industrialization. An investigation of accretions - in both their practices and cultures - around the world and across the ages from ancient times to the modern era.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST_V 236-201</td>
<td>236</td>
<td>Introduction to Public History in Canada: Confronting the Canadian Past</td>
<td>An introduction to public history in Canada that explores the politics and practice of representing the past in a variety of sites, such as museums, monuments, and films, and examines questions of historical interpretation, memory, and audience. Multi-access Learning Mon 3:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>HIST_V 236-L1A</td>
<td>236</td>
<td>Introduction to Public History in Canada: Confronting the Canadian Past</td>
<td>An introduction to public history in Canada that explores the politics and practice of representing the past in a variety of sites, such as museums, monuments, and films, and examines questions of historical interpretation, memory, and audience. In Person Learning Fri 1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>HIST_V 236-L1B</td>
<td>236</td>
<td>Introduction to Public History in Canada: Confronting the Canadian Past</td>
<td>An introduction to public history in Canada that explores the politics and practice of representing the past in a variety of sites, such as museums, monuments, and films, and examines questions of historical interpretation, memory, and audience. In Person Learning Fri 3:00 p.m. - 4:00 p.m.</td>
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<td>HIST_V 236-L1C</td>
<td>236</td>
<td>Introduction to Public History in Canada: Confronting the Canadian Past</td>
<td>An introduction to public history in Canada that explores the politics and practice of representing the past in a variety of sites, such as museums, monuments, and films, and examines questions of historical interpretation, memory, and audience. In Person Learning Fri 2:00 p.m. - 3:00 p.m.</td>
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<td>HIST_V 236-L1E</td>
<td>236</td>
<td>Introduction to Public History in Canada: Confronting the Canadian Past</td>
<td>An introduction to public history in Canada that explores the politics and practice of representing the past in a variety of sites, such as museums, monuments, and films, and examines questions of historical interpretation, memory, and audience. In Person Learning Wed 2:00 p.m. - 3:00 p.m.</td>
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<td>HIST_V 237-A_01P</td>
<td>237</td>
<td>History of the United States</td>
<td>Survey from colonial period to present examining political system, slavery, Civil War, race relations and civil rights, westward expansion, industrialization, feminism, expanding international presence, Cold War, and modern culture. In Person Learning Thu 1:00 p.m. - 2:00 p.m.</td>
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<td>HIST_V 237-A_01Q</td>
<td>237</td>
<td>History of the United States</td>
<td>Survey from colonial period to present examining political system, slavery, Civil War, race relations and civil rights, westward expansion, industrialization, feminism, expanding international presence, Cold War, and modern culture. In Person Learning Thu 4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>HIST_V 237-A_01R</td>
<td>237</td>
<td>History of the United States</td>
<td>Survey from colonial period to present examining political system, slavery, Civil War, race relations and civil rights, westward expansion, industrialization, feminism, expanding international presence, Cold War, and modern culture. In Person Learning Fri 3:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>HIST_V 240-101</td>
<td>240</td>
<td>Health, Illness and Medicine I: From the Ancient World to the Early Modern Period</td>
<td>History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions. In Person Learning Mon 10:00 a.m. - 11:00 a.m.</td>
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<tr>
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<td>HIST_V 240-103</td>
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<td>Health, Illness and Medicine I: From the Ancient World to the Early Modern Period</td>
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<td>HIST_V 240-104</td>
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<td>Health, Illness and Medicine I: From the Ancient World to the Early Modern Period</td>
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<td>Health, Illness and Medicine I: From the Ancient World to the Early Modern Period</td>
<td>History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions. In Person Learning Arranged Arranged</td>
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<td>HIST_V 240-L1B</td>
<td>240</td>
<td>Health, Illness and Medicine I: From the Ancient World to the Early Modern Period</td>
<td>History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions. In Person Learning Arranged Arranged</td>
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<td>HIST_V 240-L1C</td>
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<td>Health, Illness and Medicine I: From the Ancient World to the Early Modern Period</td>
<td>History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions. In Person Learning Arranged Arranged</td>
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<td>HIST_V 240-L1D</td>
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<td>Health, Illness and Medicine I: From the Ancient World to the Early Modern Period</td>
<td>History of western medicine, from the Ancient World to the Enlightenment, with a focus on social and cultural ideas surrounding the body, health, and disease, and the development of medical institutions. In Person Learning Arranged Arranged</td>
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<td>HIST_V 240-L1A</td>
<td>240</td>
<td>Health, Illness and Medicine I: From the Ancient World to the Early Modern Period</td>
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<td>240</td>
<td>Health, Illness and Medicine I: From the Ancient World to the Early Modern Period</td>
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<td>Health, Illness and Medicine I: From the Ancient World to the Early Modern Period</td>
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<td>Latin-American History</td>
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<td>W1</td>
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<td>HIST 250-A_12A</td>
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<td>Latin-American History</td>
<td>W2</td>
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<td>HIST 252-101</td>
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<td>Modern Caribbean History</td>
<td>W1</td>
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<td>HIST 256-101</td>
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<td>History of Africa</td>
<td>W1</td>
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<td>HIST 256-101</td>
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<td>HIST 260-101</td>
<td>3</td>
<td>Science and Society in the Contemporary World</td>
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<tr>
<td>HIST 270-A_201</td>
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<td>China in World History</td>
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<tr>
<td>HIST 271-101</td>
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<td>Japan and Global History, 1550 - 1850</td>
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<td>Japan and Global History, 1550 - 1850</td>
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<tr>
<td>HIST 300-201</td>
<td>2</td>
<td>Vikings: Then and Now</td>
<td>W2</td>
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</tbody>
</table>

**Description:**
- 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.
- Exploring themes of colonization, indigenous life, national margins, dictations and transitions to democracy through different forms of telling Latin American history. Includes epidemiology writing, maps, eyewitness accounts, chronicles, actions, novels, films, built environment and city plans, testimonies, and plays.
- A survey of social, cultural and political history of Anglophone, Francophone and Spanish Caribbean from the Haitian Revolution to the present.
- 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 HST 256 or HST 256. Equivalency: HST 256.
- History of Africa.
- 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 HST 256 or HST 256. Equivalency: HST 256.
- Science and Society in the Contemporary World.
HIST_V 302-001  HIST_V 302  001  History of the Indigenous Peoples of North America  WI-2  Indigenous peoples from pre-contact to the present in Canada and the U.S. Topics include colonial frontiers, disease, trade, government policies, environment, gender, religion, oral narratives, activism, urbanization, and identity.  In Person Learning  Mon Wed  10:00 a.m. - 11:00 a.m.

HIST_V 302-L01  HIST_V 302  101  History of the Indigenous Peoples of North America  WI-2  Indigenous peoples from pre-contact to the present in Canada and the U.S. Topics include colonial frontiers, disease, trade, government policies, environment, gender, religion, oral narratives, activism, urbanization, and identity.  In Person Learning  Fri  10:00 a.m. - 11:00 a.m.

HIST_V 305-101  HIST_V 305  101  History of British Columbia  WI  The social, political, cultural, environmental, and economic transformations that have made British Columbia. Topics include the histories of indigenous and settler peoples, the modern state, migration, activism, or identity.  In Person Learning  Arranged  Arranged

HIST_V 305-201  HIST_V 305  201  History of British Columbia  WI  The social, political, cultural, environmental, and economic transformations that have made British Columbia. Topics include the histories of indigenous and settler peoples, the modern state, migration, activism, or identity.  In Person Learning  Tue  9:30 a.m. - 11:00 a.m.

HIST_V 311-201  HIST_V 311  201  The British Empire after 1850  W2  Transformation of the British imperial system from the mid-nineteenth century to de-colonization and neo-colonialism after the second World War.  In Person Learning  Arranged  Arranged

HIST_V 313-201  HIST_V 313  201  Africa from Imperialism to Independence  W2  The history of Africa in the 19th and 20th Centuries: the growth of Islam and Christianity, the impact of European colonialism, the development of nationalisms, and the variety of different political and social outcomes after independence. Credit will be granted for only one of HIST 313 or HIST 311. Equivalency: AFST 313  In Person Learning  Tue  11:00 a.m. - 12:30 p.m.

HIST_V 313-301  HIST_V 313  101  Africa from Imperialism to Independence  W2  The history of Africa in the 19th and 20th Centuries: the growth of Islam and Christianity, the impact of European colonialism, the development of nationalisms, and the variety of different political and social outcomes after independence. Credit will be granted for only one of HIST 313 or HIST 311. Equivalency: AFST 313  In Person Learning  Thu  11:00 a.m. - 12:30 p.m.

HIST_V 315-101  HIST_V 315  101  Britain 1760-1850  W1  Emergence of the world's first industrial society, and the political, economic, and cultural struggles accompanying this transformation.  In Person Learning  Arranged  Arranged

HIST_V 319-101  HIST_V 319  101  Britain, 1945 to the Present  W1  Survey of recent British history, with emphasis on de-colonisation, emergence of the welfare state, new social movements and patterns of immigration, and Britain's changing relationship with Europe.  In Person Learning  Wed  4:00 p.m. - 6:00 p.m.

HIST_V 319-1A  HIST_V 319  11A  Britain, 1945 to the Present  W1  Survey of recent British history, with emphasis on de-colonisation, emergence of the welfare state, new social movements and patterns of immigration, and Britain's changing relationship with Europe.  Online Learning  Arranged  Arranged

HIST_V 321-B_H  101  Honours Tutorial  WI  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Wed  2:00 p.m. - 4:00 p.m.

HIST_V 321-D_H  201  Honours Tutorial  WI  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue  2:00 p.m. - 4:00 p.m.

HIST_V 323-101  HIST_V 323  101  Empire, War, and Revolutions in Europe and the Americas,1760-1838  WI-2  Political, social, cultural, and intellectual transformations that reshaped the Atlantic world between 1763 and 1838; special attention will be given to the American, French, and American Revolutionary, the Latin American Wars of Independence and Canadian rebellion.  In Person Learning  Tue Thu  1:30 p.m. - 5:00 p.m.

HIST_V 324-201  HIST_V 324  201  Inventing Canada, 1840-1896  W2  An examination of political, cultural and national developments within the British North American colonies in the second half of the nineteenth century. Credit will not be granted for both HIST 324 or 326, if 326 was taken before 2007W.  In Person Learning  Thu  1:30 p.m. - 5:00 p.m.

HIST_V 325-101  HIST_V 325  101  Canada, 1896-1945: Boom, Bust and War  WI-1  Includes Aboriginal policy, immigration and national identity; Canada, Britain and the US; World Wars; economic modernization; the Great Depression; regional politics; political and social movements, and the creation of Canadian culture. Credit will only be granted for one of HIST 325 or 426. If 426 was taken before 2007W.  In Person Learning  Tue  4:00 p.m. - 7:00 p.m.

HIST_V 330-101  HIST_V 330  101  Canada Since 1845: Affluence and Anxiety in the Atomic Age  W1  An examination of the social, political, cultural, and economic transformations that have made British Columbia. Topics include the histories of Indigenous and settler peoples, the modern state, migration, activism, or identity.  In Person Learning  Mon Wed  9:30 a.m. - 11:00 a.m.

HIST_V 332-201  HIST_V 332  201  Colonial America: Encounter and Settlement, 1492 - 1763  W1  Canadian history through the lens of individual people's lives and their social impact. Themes include race, class, gender, sexuality, indigeneity; colonialism; slavery, immigration, moral regulation, and activism.  In Person Learning  Arranged  Arranged

HIST_V 333-B_H  201  Honours Seminar  WI  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Wed  10:00 a.m. - 12:30 p.m.

HIST_V 333-C_001  HIST_V 333  C_001  Third Year Honours Seminar  WI-2  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Wed  10:00 a.m. - 12:30 p.m.
<table>
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<th>CRN</th>
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<th>Title</th>
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<th>Time</th>
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<tr>
<td>339</td>
<td>3</td>
<td>American Modernity: The United States, 1890-1945</td>
<td>W2</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>201</td>
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<td>338</td>
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<td>Modern Middle Eastern History</td>
<td>W1</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td>L01</td>
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<td>337</td>
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<td>The United States Since 1945: The Limits of Power</td>
<td>W2</td>
<td>3:00 p.m. - 4:30 p.m.</td>
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</table>

**Course Descriptions**

- **American Modernity: The United States, 1890-1945**: Examines the United States and its role in the world as a superpower during this period, focusing on social, economic, and cultural changes.
- **Modern Middle Eastern History**: Explores the political, social, and cultural history of the Middle East and North Africa, including the Ottoman Empire.
- **The United States Since 1945: The Limits of Power**: Investigates the evolution of American foreign policy and its impact on world affairs since 1945.
- **The Soviet Union**: Covers the history of the Soviet Union from its establishment to its dissolution, focusing on political, social, and economic developments.
- **Twentieth-Century Germany**: Studies the political, social, and cultural history of Germany from World War I to the present.
- **Europe During the Renaissance**: Examines the cultural, political, and economic developments during this period in Europe.
- **Europe During the Reformation**: Focuses on the religious and political changes that shaped Europe in the sixteenth century.
- **The Islamic Golden Age**: Explores the cultural and intellectual achievements of the Islamic world from the 8th to the 15th century.
- **African-American History, 1850 to the Present**: traces the history of African-Americans since slavery.
- **The United States in an Imperial World**: Studies the United States as an imperial power and its influence on world events.
- **East Central Europe in the 19th and 20th Centuries**: Examines the history of Central Europe, including Austria, Hungary, and Romania.
- **The Ottoman Empire**: Explores the rise and fall of the Ottoman Empire, with a focus on its impact on world politics.
- **In Person Learning** and **Hybrid Learning** are offered for these courses, allowing for flexible learning options.

All courses are arranged at specific times and locations, providing a structured academic experience.
An investigation of main themes in European history from the French Revolution to the beginning of the 20th century. Topics of particular importance are: domestic politics; the interaction of states; the formation of new states; social and economic transformations affecting the whole civilization; major cultural expressions of the century.

Europe in the 19th Century

Europe since 1850-1950

Europe since the middle of the twentieth century. Themes include the Cold War, the development of separate social and political systems in Western and Eastern Europe, the emergence of the welfare state, and the problems of European integration.

History of later imperial China

History of Early China

History of China from 1800 to the present including the decline of the Qing empire, the rise of modern nationalism, foreign invasion, and China's multiple revolutions.

The Making of Modern China: Nationalism, War, Revolution

Meaning of modernity, from the establishment of a nation-state to the creation of a colonial empire, postwar occupation, modern politics and global influence. Social changes, including civil protest, mass culture, censorship and expression, and gender, sexuality, ethnicity and race.

Korea Since 1860

An examination of the political, economic, social, and cultural transformations of Korea since the late nineteenth century. Topics include the end of the Choson Dynasty, the history of Japanese colonial rule, the Korean war, and the two Koreas in the international system.

Scientific Revolution: Circulation of Knowledge in the Early Modern World

An examination of the political, economic, social, and cultural transformations of Korea since the late nineteenth century. Topics include the end of the Choson Dynasty, the history of Japanese colonial rule, the Korean war, and the two Koreas in the international system.

The Making of Modern China: Nationalism, War, Revolution

History of China from 1800 to the present including the decline of the Qing empire, the rise of modern nationalism, foreign invasion, and China's multiple revolutions.

Modern Japanese History Since 1880

Arranged

Human Rights in World History

Arranged

Scientific Revolutions: Circulation of Knowledge in the Early Modern World

The Making of Modern China: Nationalism, War, Revolution

History of China from 1800 to the present including the decline of the Qing empire, the rise of modern nationalism, foreign invasion, and China's multiple revolutions.
**HIST_V 300-201**  
Introduction to History and Philosophy of Science  
W1  
This course provides an examination of historical, conceptual, and methodological conditions of scientific knowledge and the ways in which scientific knowledge is constructed. Credit will be granted for only one of HIST 300 or PHIL 300. 
In Person Learning  
Mon, Wed  
10:00 a.m. - 11:00 a.m.

**HIST_V 394-101**  
Darwin, Evolution, and Modern History  
W2  
An examination of historical, conceptual, and methodological conditions of scientific knowledge through detailed consideration of important episodes in the history of science. Credit will be granted for only one of HIST 394 or PHIL 394. 
In Person Learning  
Wed  
3:00 p.m. - 6:00 p.m.

**HIST_V 396-201**  
Environmental History of North America  
W2  
Overview of land use and environmental change in Canada and the United States; examines ideas and practices that shaped indigenous and non-indigenous resource exploitation, management, and activism in the years leading up to the end of the twentieth century. 
In Person Learning  
Mon, Wed  
5:30 p.m. - 7:30 p.m.

**HIST_V 403-101**  
The Practice of Oral History  
W1  
The practice, ethics, and politics of oral history. Provides research training, where students design and complete projects based on oral history interviews. 
In Person Learning  
Thu  
4:00 p.m. - 7:00 p.m.

**HIST_V 403-A_201**  
Problems in International Relations  
W2  
Selected topics such as trade, migration, diplomacy, war, migration, colonialism, and post-colonialism. Priority for registration to majors in History or International Relations. 
Online Learning  
Wed  
2:00 p.m. - 5:00 p.m.

**HIST_V 403-C_201**  
Problems in International Relations  
W1  
Selected topics such as trade, migration, diplomacy, war, migration, colonialism, and post-colonialism. Priority for registration to majors in History or International Relations. 
In Person Learning  
Arranged  
Arranged

**HIST_V 403-D_201**  
Seminar in the History of International Relations  
W2  
Selected topics in the history of international relations. Restricted to fourth year students majoring in History or International Relations. This course is not eligible for Credit/D/Fail grading. 
In Person Learning  
Arranged  
Arranged

**HIST_V 403-E_201**  
Seminar in the History of International Relations  
W1  
Selected topics in the history of international relations. Restricted to fourth year students majoring in History or International Relations. This course is not eligible for Credit/D/Fail grading. 
In Person Learning  
Thu  
10:00 a.m. - 12:00 p.m.

**HIST_V 403-F_201**  
Seminar in the History of International Relations  
W1  
Selected topics in the history of international relations. Restricted to fourth year students majoring in History or International Relations. This course is not eligible for Credit/D/Fail grading. 
In Person Learning  
Wed  
9:00 a.m. - 11:00 a.m.

**HIST_V 403-G_201**  
Seminar in the History of International Relations  
W2  
Selected topics in the history of international relations. Restricted to fourth year students majoring in History or International Relations. This course is not eligible for Credit/D/Fail grading. 
In Person Learning  
Tue  
8:00 a.m. - 10:00 a.m.

**HIST_V 403-H_201**  
Seminar in the History of International Relations  
W1  
Selected topics in the history of international relations. Restricted to fourth year students majoring in History or International Relations. This course is not eligible for Credit/D/Fail grading. 
In Person Learning  
Arranged  
Arranged

**HIST_V 406-101**  
The Second World War  
W1  
An examination of historical, conceptual, and methodological conditions of scientific knowledge through detailed consideration of important episodes in the history of science. Credit will be granted for only one of HIST 394 or PHIL 394. 
In Person Learning  
Wed  
3:00 p.m. - 6:00 p.m.

**HIST_V 408-101**  
U.S. Foreign Relations from Independence to World War II  
W1  
U.S. foreign policy and international history. Examines the American rise to power and political, economic, and cultural relationships between the United States and other peoples, organizations, and states worldwide. 
In Person Learning  
Tue  
11:00 a.m. - 1:00 p.m.

**HIST_V 408-101**  
U.S. Foreign Relations from Independence to World War II  
W1  
U.S. foreign policy and international history. Examines the American rise to power and political, economic, and cultural relationships between the United States and other peoples, organizations, and states worldwide. 
In Person Learning  
Thu  
11:00 a.m. - 1:00 p.m.

**HIST_V 409-201**  
U.S. Foreign Relations since 1845  
W2  
U.S. foreign policy and international history. Political, economic, and cultural relationships between the United States and other peoples, organizations, and states worldwide. 
In Person Learning  
Wed  
8:00 a.m. - 10:00 a.m.

**HIST_V 409-L1A**  
U.S. Foreign Relations since 1845  
W2  
U.S. foreign policy and international history. Political, economic, and cultural relationships between the United States and other peoples, organizations, and states worldwide. 
Online Learning  
Arranged  
Arranged

**HIST_V 409-L1B**  
U.S. Foreign Relations since 1845  
W2  
U.S. foreign policy and international history. Political, economic, and cultural relationships between the United States and other peoples, organizations, and states worldwide. 
In Person Learning  
Fri  
10:00 a.m. - 11:00 a.m.

**HIST_V 409-L1C**  
U.S. Foreign Relations since 1845  
W2  
U.S. foreign policy and international history. Political, economic, and cultural relationships between the United States and other peoples, organizations, and states worldwide. 
In Person Learning  
Fri  
11:00 a.m. - 12:00 p.m.

**HIST_V 409-L1D**  
U.S. Foreign Relations since 1845  
W2  
U.S. foreign policy and international history. Political, economic, and cultural relationships between the United States and other peoples, organizations, and states worldwide. 
In Person Learning  
Fri  
1:00 p.m. - 2:00 p.m.
The history of the 1960s from a transnational perspective: culture, social change, student activism, and global conflict.

Questions of war, peace, balance of power, and the evolution of the international system in global economic, cultural, and social contexts.

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.

The history of the 1960s from a transnational perspective: culture, social change, student activism, and global conflict.

History of international relations from the beginning of the twentieth century to the present. Questions of war, peace, balance of power, and the evolution of the international system in global economic, cultural, and social contexts.

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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.

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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.

Fourth-Year Honours Seminar

International Relations in the Twentieth Century

Constitutions in Canadian History: From Pre-Contact to the Charter of Rights

Imagining the Nation: 19th- and 20th-Century Canada
In Person Learning

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

In Person Learning

Arranged

In Person Learning

W1-2

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

In Person Learning

Arranged

In Person Learning

W1

The history of law in the Middle Ages, including English common law, civil (Roman) law, and canon law, and how changes in both medieval law and society affected the development of both. Confucian societies are often thought of as ones in which the brush is mightier than the sword. In fact, the military has been a crucial factor in East Asia, and warfare has been the engine which has driven many of the most significant changes in East Asian history. This course will look at the evolution of East Asian military systems, and at the impact of recurrent warfare on East Asian societies.

In Person Learning

W2

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

In Person Learning

Arranged

In Person Learning

W1

Offers essential skills for academic and non-academic paths in the historical profession as well as identifying alternative career possibilities for historians. Restricted to students in the following programs: PhD in History, MA in History.

In Person Learning

Arranged

In Person Learning

W1

This course offers selected problems in the theory and practice of historical work. Check with the department for course offerings. Restricted to fourth year students majoring in History or in the History and Philosophy of Science. Also open to History Honours students. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

In Person Learning

W1

This course examines the history of Asian migration to Vancouver and British Columbia, focusing on the development of local communities and provide a background in historical research methods that will enable the students to conduct research on the history of these communities.

In Person Learning

W2

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

In Person Learning

Arranged

In Person Learning

W1

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

In Person Learning

Arranged

In Person Learning

W1

2:00 p.m. - 4:30 p.m.

In Person Learning

Arranged

In Person Learning

W2

This course examines the history of Asian migration to Vancouver and British Columbia, focusing on the development of local communities and provide a background in historical research methods that will enable the students to conduct research on the history of these communities.

In Person Learning

W2

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

In Person Learning

Arranged

In Person Learning

W1

Selected problems in the theory and practice of historical work. Check with the department for course offerings. Restricted to fourth year students majoring in History or in the History and Philosophy of Science. Also open to History Honours students. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

In Person Learning

W2

Selected problems in the theory and practice of historical work. Check with the department for course offerings. Restricted to fourth year students majoring in History or in the History and Philosophy of Science. Also open to History Honours students. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

In Person Learning

W2

Selected problems in the theory and practice of historical work. Check with the department for course offerings. Restricted to fourth year students majoring in History or in the History and Philosophy of Science. Also open to History Honours students. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

In Person Learning

W2

Selected problems in the theory and practice of historical work. Check with the department for course offerings. Restricted to fourth year students majoring in History or in the History and Philosophy of Science. Also open to History Honours students. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

In Person Learning

W2

Selected problems in the theory and practice of historical work. Check with the department for course offerings. Restricted to fourth year students majoring in History or in the History and Philosophy of Science. Also open to History Honours students. This course is not eligible for Credit/D/Fail grading.

In Person Learning

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<th>Type</th>
<th>Credits</th>
<th>Day(s)</th>
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<td>Topics in Intellectual History</td>
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<td>Readings in Environmental History</td>
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<td>Research Methods in Human Nutrition</td>
<td>In Person Learning</td>
<td>W1</td>
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<td>Ph.D. Research Seminar</td>
<td>In Person Learning</td>
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<td>HPR_V 501-201</td>
<td>Green Building Contemporary Practice</td>
<td>Online Learning</td>
<td>W2</td>
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<td>HPR_V 502-101</td>
<td>Regenerative Development</td>
<td>Online Learning</td>
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<td>HPR_V 503-101</td>
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<td>In Person Learning</td>
<td>W2</td>
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<td>HUNU_V 525</td>
<td>Nutrition Assessment Across the LifeSpan</td>
<td>In Person Learning</td>
<td>W1</td>
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<td>HUNU_V 531-001</td>
<td>Business &amp; Entrepreneurship in Dietetics</td>
<td>In Person Learning</td>
<td>W2</td>
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<td>HUNU_V 531-002</td>
<td>Indigenous Health in Dietetics</td>
<td>In Person Learning</td>
<td>W2</td>
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<td>HUNU_V 531-003</td>
<td>M.Sc. Seminar</td>
<td>In Person Learning</td>
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<td>HUNU_V 532-007</td>
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<td>In Person Learning</td>
<td>W2</td>
<td></td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
</tbody>
</table>

Note: This list includes courses with specific formats and credits, along with their respective days and times.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Type</th>
<th>Schedule</th>
<th>Location</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUNU 541-001</td>
<td>3-0-1</td>
<td>Food Provision and Management in Dietetics</td>
<td>Directed Studies</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>All of HUNU 540, HUNU 573, HUNU 577. Prerequisite: HUNU 510.</td>
</tr>
<tr>
<td>HUNU 549-001</td>
<td>3-0-0</td>
<td>Advances in Human Nutrition</td>
<td>Directed Studies</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>All of HUNU 540, HUNU 573, HUNU 575. Prerequisite: HUNU 510.</td>
</tr>
<tr>
<td>HUNU 550-001</td>
<td>3-0-0</td>
<td>Leadership in Dietetics and Health</td>
<td>Directed Studies</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
<td>All of HUNU 540, HUNU 573, HUNU 575. Prerequisite: HUNU 510.</td>
</tr>
<tr>
<td>HUNU 573-001</td>
<td>3-0-1</td>
<td>Nutrition Care I</td>
<td>Directed Studies</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>All of HUNU 540, HUNU 573, HUNU 575. Prerequisite: HUNU 510.</td>
</tr>
<tr>
<td>HUNU 576-001</td>
<td>3-0-0</td>
<td>Nutrition Care II</td>
<td>Directed Studies</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>All of HUNU 540, HUNU 573, HUNU 575. Prerequisite: HUNU 510.</td>
</tr>
<tr>
<td>HUNU 577-001</td>
<td>3-0-0</td>
<td>Nutrition Care III</td>
<td>Directed Studies</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>All of HUNU 540, HUNU 573, HUNU 575. Prerequisite: HUNU 510.</td>
</tr>
<tr>
<td>HUNU 580-001</td>
<td>3-0-0</td>
<td>Professional Dietetic Practice II</td>
<td>Directed Studies</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>All of HUNU 540, HUNU 573, HUNU 575. Prerequisite: HUNU 510.</td>
</tr>
<tr>
<td>HUNU 581-001</td>
<td>3-0-0</td>
<td>Dietetics Practice Education Placement I</td>
<td>Directed Studies</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>All of HUNU 540, HUNU 573, HUNU 575. Prerequisite: HUNU 510.</td>
</tr>
<tr>
<td>HUNU 582-001</td>
<td>3-0-0</td>
<td>Dietetics Practice Education Placement IV</td>
<td>Directed Studies</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>All of HUNU 540, HUNU 573, HUNU 575. Prerequisite: HUNU 510.</td>
</tr>
<tr>
<td>HUNU 583-001</td>
<td>3-0-0</td>
<td>Dietetics Practice Education Placement III</td>
<td>Directed Studies</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>All of HUNU 540, HUNU 573, HUNU 575. Prerequisite: HUNU 510.</td>
</tr>
<tr>
<td>HUNU 584-002</td>
<td>3-0-0</td>
<td>Ph.D. Seminar</td>
<td>Directed Studies</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>All of HUNU 540, HUNU 573, HUNU 575. Prerequisite: HUNU 510.</td>
</tr>
<tr>
<td>HUNU 585-001</td>
<td>3-0-0</td>
<td>M.Sc. Thesis</td>
<td>Directed Studies</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>All of HUNU 540, HUNU 573, HUNU 575. Prerequisite: HUNU 510.</td>
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<tr>
<td>HUNU 586-001</td>
<td>3-0-0</td>
<td>M.Sc. Thesis</td>
<td>Directed Studies</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>All of HUNU 540, HUNU 573, HUNU 575. Prerequisite: HUNU 510.</td>
</tr>
<tr>
<td>HUNU 587-001</td>
<td>3-0-0</td>
<td>M.Sc. Thesis</td>
<td>Directed Studies</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>All of HUNU 540, HUNU 573, HUNU 575. Prerequisite: HUNU 510.</td>
</tr>
<tr>
<td>HUNU 588-001</td>
<td>3-0-0</td>
<td>M.Sc. Thesis</td>
<td>Directed Studies</td>
<td>9:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>All of HUNU 540, HUNU 573, HUNU 575. Prerequisite: HUNU 510.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Schedule</td>
<td>Grading</td>
<td>Notes</td>
<td></td>
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</tr>
<tr>
<td>HUNU_V 649</td>
<td>Indigenous Views of Landscapes</td>
<td>0.5</td>
<td>Mon - Wed</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>IEST_V 505</td>
<td>Topics in European Studies</td>
<td>0.5</td>
<td>Mon - Wed</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>IGEN_V 201</td>
<td>Intermediate Engineering Design</td>
<td>1-4</td>
<td>Tue Thu</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>IGEN_V 230</td>
<td>Introduction to Engineering Design</td>
<td>1-4</td>
<td>Wed</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>IEST_V 551</td>
<td>Politics and Culture in Europe</td>
<td>0.5</td>
<td>Wed</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>IEST_V 500</td>
<td>Pro-Seminar European Studies</td>
<td>2-0-2</td>
<td>Fri</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td></td>
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<tr>
<td>IEST_V 506</td>
<td>Pipeline Design</td>
<td>3-0-0</td>
<td>Fri</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>IEST_V 523</td>
<td>Pipeline Design</td>
<td>3-0-0</td>
<td>Fri</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td></td>
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<tr>
<td>IEST_V 504</td>
<td>Community Engagement: Principles, Practices and Protocols</td>
<td>1-0-2</td>
<td>Fri</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td></td>
</tr>
</tbody>
</table>

*This course is not eligible for Credit/D/Fail grading.*
Introduction to Indigenous knowledge, with a focus on Indigenous and Western knowledge for managing ecosystems and integrating knowledge. This course is not 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 may be taken upon approval of the Program head. This course is not eligible for Credit/D/Fail grading.

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

Foundations of governance, with a focus on Indigenous governance in Canada. Topics include traditional governance, self-governance and natural resource governance. In Person Learning Tue Thu 10:00 a.m. - 11:30 a.m.

Directed Studies

In Person Learning

Indigenous Law

In Person Learning

Conflict management focusing on power, rights and interests in Indigenous communities. Topics: consensus-based and collaborative approaches. In Person Learning Mon Wed 1:00 p.m. - 2:30 p.m.

Instructional Skills Workshop

In Person Learning

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

Seminars, lectures, and discussions of topics involving several faculties. Contact the Interdisciplinary Studies Program for specific topics (www.isgp.ubc.ca). This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.

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

Foundations for understanding community organization and collective action in communities. Topics: inquiry, and civic engagement. This course is not eligible for Credit/D/Fail grading.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>INFO_V 250-002</td>
<td>Networks, Crowds, and Communities</td>
</tr>
<tr>
<td>INFO_V 300-002</td>
<td>Information and Data Design</td>
</tr>
<tr>
<td>INFO_V 301-002</td>
<td>Digital Cultural Collections</td>
</tr>
<tr>
<td>ISCI_V 300-001</td>
<td>Sociotechnical Perspectives for Information Systems Design</td>
</tr>
<tr>
<td>ISCI_V 300-201</td>
<td>Interdisciplinary Seminar</td>
</tr>
<tr>
<td>ISCI_V 301-201</td>
<td>The Size of Things</td>
</tr>
<tr>
<td>ISCI_V 302-001</td>
<td>Integrative Sciences Graduating Seminar</td>
</tr>
</tbody>
</table>

**INFO_V 250-002**: Design of interactive information systems informed by human capabilities and behavior. Application of contemporary information design principles and practices to the conceptualization, creation, and testing of real-world prototypes of information objects and applications. Recommended prerequisite: INFO 200. In Person Learning, Wed 2 p.m. - 5 p.m.

**INFO_V 300-002**: Information and Data Design. W2 Design of interactive information systems informed by human capabilities and behavior. Application of contemporary information design principles and practices to the conceptualization, creation, and testing of real-world prototypes of information objects and applications. Recommended prerequisite: INFO 200. In Person Learning, Wed 2 p.m. - 5 p.m.

**INFO_V 301-002**: Digital Cultural Collections. W2 Design, construction, and critique of digital collections from a cultural information perspective. In Person Learning, Tue Thu 11 a.m. - 12:30 p.m.

**ISCI_V 300-001**: Sociotechnical Perspectives for Information Systems Design. W1 Interdisciplinary approaches to theorizing, evaluating, envisioning, and designing information systems as assemblages of society and technology that can favor historically, persistently, or systematically marginalized groups and communities.

**ISCI_V 300-201**: Interdisciplinary Seminar. W2 Critical analysis of recent scientific literature that combines disciplines that students are integrating in their Integrated Sciences Curriculum. This course is not eligible for Credit/D/Fail grading. Prerequisite: Registration in Integrated Sciences Program.

**ISCI_V 301-201**: The Size of Things. W2 Scaling as a general approach to laws governing the geometry, kinematics and dynamics of systems. Dimensional analysis, isotropy and anisotropy applied to topics from Biology, Physics, Earth Science and Economics. Priority to students in the Integrated Sciences Program. Prerequisite: Third-year standing in the Faculty of Science. In Person Learning, Mon Wed, 2 p.m. - 4 p.m.

**ISCI_V 302-001**: Symmetry. W1 Recognizing symmetry; point groups in 2D and 3D; plane groups in 2D; space groups in 3D; the role of symmetry in the natural and human world. (3-0-0) Prerequisite: Third-year standing in the Faculty of Science.

**ISCI_V 303-001**: Interdisciplinary Seminar. W1 Critical analysis of recent scientific literature that combines disciplines that students are integrating in their Integrated Sciences Curriculum. This course is not eligible for Credit/D/Fail grading. Prerequisite: Registration in Integrated Sciences Program.

**ISCI_V 303-002**: Search Engines and Society. W1 Aspects of technical implementation and societal impact of search engines. Explores how Google and other Internet search engines are powerful, global, and non-neutral tools that drive economies and shape our views of the world. Recommended prerequisite: ISCI 200. In Person Learning, Arranged.

**ISCI_V 304-002**: Search Engines and Society. W2 Aspects of technical implementation and societal impact of search engines. Explores how Google and other Internet search engines are powerful, global, and non-neutral tools that drive economies and shape our views of the world. Recommended prerequisite: ISCI 200. In Person Learning, Tue Thu 2 p.m. - 3:30 p.m.

**ISCI_V 310-001**: Information Policy and Society. W1 Reflects on the need for information policies in professional contexts, evaluates relevant socio-technical dimensions and envision their implications for communication and practice settings. In Person Learning, Tue 9 a.m. - 12.00 p.m.

**ISCI_V 310-201**: Research Development Project. W2 Using the Generalized theory of fatal selection to explore explanations of infectious diseases, allergies, cancer, mental illness, and other human diseases. Priority to students in the Integrated Sciences Program. Please consult the Faculty of Science Credit Exclusion Lists: www.vancouver.calendar.ubc.ca/faculty-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. Prerequisite: Third-year standing in the Faculty of Science. Expenditure: BX5 250. In Person Learning, Mon Tue, 9 a.m. - 9:00 p.m.

**ISCI_V 311-001**: Interdisciplinary Seminar. W2 Critical analysis of recent scientific literature that combines disciplines that students are integrating in their Integrated Sciences Curriculum. This course is not eligible for Credit/D/Fail grading. Prerequisite: Registration in Integrated Sciences Program.

**ISCI_V 312-001**: Integrative Sciences Graduating Seminar. W2 Systems science approaches encompassing geological, hydrological, atmospheric sciences, and energy systems approaches to study regional sustainability. (3-0-0) Prerequisite: Third-year standing in the Faculty of Science. In Person Learning, Tue Thu 9 a.m. - 11.00 a.m.

**ISCI_V 313-001**: Interdisciplinary Seminar. W2 Critical analysis of recent scientific literature that combines disciplines that students are integrating in their Integrated Sciences Curriculum. This course is not eligible for Credit/D/Fail grading. Prerequisite: Registration in Integrated Sciences Program.

**ISCI_V 314-001**: Interdisciplinary Seminar. W2 Critical analysis of recent scientific literature that combines disciplines that students are integrating in their Integrated Sciences Curriculum. This course is not eligible for Credit/D/Fail grading. Prerequisite: Registration in Integrated Sciences Program.

**ISCI_V 315-001**: Interdisciplinary Seminar. W2 Critical analysis of recent scientific literature that combines disciplines that students are integrating in their Integrated Sciences Curriculum. This course is not eligible for Credit/D/Fail grading. Prerequisite: Registration in Integrated Sciences Program.

**ISCI_V 316-001**: Interdisciplinary Seminar. W2 Critical analysis of recent scientific literature that combines disciplines that students are integrating in their Integrated Sciences Curriculum. This course is not eligible for Credit/D/Fail grading. Prerequisite: Registration in Integrated Sciences Program.

**ISCI_V 317-001**: Interdisciplinary Seminar. W2 Critical analysis of recent scientific literature that combines disciplines that students are integrating in their Integrated Sciences Curriculum. This course is not eligible for Credit/D/Fail grading. Prerequisite: Registration in Integrated Sciences Program.

**ISCI_V 318-001**: Co-operative Work Placement I. W1 Industrial or academic work experience for a minimum of 4 months. Normally taken in Winter Session of third year or Summer Session after third year. Technical report required, restricted to students in the ISP Co-op Program. Prerequisite: One term in ISP. In Person Learning, Arranged.

**ISCI_V 319-001**: Co-operative Work Placement II. W1 Industrial or academic work experience for a minimum of 4 months. Technical report required, restricted to students in the ISP Co-op Program. Prerequisite: ISCI 388. In Person Learning, Arranged.

**ISCI_V 320-201**: Co-operative Work Placement II. W2 Industrial or academic work experience for a minimum of 4 months. Technical report required, restricted to students in the ISP Co-op Program. Prerequisite: ISCI 388. In Person Learning, Arranged.

**ISCI_V 321-001**: Co-operative Work Placement II. W2 Industrial or academic work experience for a minimum of 4 months. Technical report required, restricted to students in the ISP Co-op Program. Prerequisite: ISCI 388. In Person Learning, Arranged.

**ISCI_V 322-001**: Co-operative Work Placement II. W2 Industrial or academic work experience for a minimum of 4 months. Technical report required, restricted to students in the ISP Co-op Program. Prerequisite: ISCI 388. In Person Learning, Arranged.

**ISCI_V 323-001**: Co-operative Work Placement II. W2 Industrial or academic work experience for a minimum of 4 months. Technical report required, restricted to students in the ISP Co-op Program. Prerequisite: ISCI 388. In Person Learning, Arranged.

**ISCI_V 324-001**: Co-operative Work Placement II. W2 Industrial or academic work experience for a minimum of 4 months. Technical report required, restricted to students in the ISP Co-op Program. Prerequisite: ISCI 388. In Person Learning, Arranged.

**ISCI_V 325-001**: Co-operative Work Placement II. W2 Industrial or academic work experience for a minimum of 4 months. Technical report required, restricted to students in the ISP Co-op Program. Prerequisite: ISCI 388. In Person Learning, Arranged.

**ISCI_V 326-001**: Co-operative Work Placement II. W2 Industrial or academic work experience for a minimum of 4 months. Technical report required, restricted to students in the ISP Co-op Program. Prerequisite: ISCI 388. In Person Learning, Arranged.

**ISCI_V 327-001**: Co-operative Work Placement II. W2 Industrial or academic work experience for a minimum of 4 months. Technical report required, restricted to students in the ISP Co-op Program. Prerequisite: ISCI 388. In Person Learning, Arranged.

**ISCI_V 328-001**: Co-operative Work Placement II. W2 Industrial or academic work experience for a minimum of 4 months. Technical report required, restricted to students in the ISP Co-op Program. Prerequisite: ISCI 388. In Person Learning, Arranged.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Mode</th>
<th>Days</th>
<th>Time</th>
<th>Instructor(s)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISCI_V 448-201</td>
<td>Non-Animal Methods in Biomedical Science</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>ISCI_V 448-201</td>
<td>Interdisciplinary non-animal methods (e.g., organoids, organ-on-a-chip, 3D bioprinting) for research, testing, and education; the regulatory landscape. [3.0-0] Prerequisite: Third-year standing.</td>
</tr>
<tr>
<td>ISCI_V 448-A, 101</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ISCI_V 448-A, 101</td>
<td>Permission of the Director is required.</td>
</tr>
<tr>
<td>ISCI_V 448-B, 101</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ISCI_V 448-B, 101</td>
<td>Permission of the Director is required.</td>
</tr>
<tr>
<td>ISCI_V 448-B, 201</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ISCI_V 448-B, 201</td>
<td>Permission of the Director is required.</td>
</tr>
<tr>
<td>ISCI_V 448-C, 102</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ISCI_V 448-C, 102</td>
<td>Permission of the Director is required.</td>
</tr>
<tr>
<td>ISCI_V 448-D, 101</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ISCI_V 448-D, 101</td>
<td>Permission of the Director is required.</td>
</tr>
<tr>
<td>ISCI_V 461-201</td>
<td>Comparative Field Research Course: Systems Approaches to Regional Sustainability</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ISCI_V 461-201</td>
<td>Systems science approaches encompassing geological, hydrological, ecological, atmospheric sciences, and emerging systems to investigate, analyze and research two unique regions of the world. Course location may vary; course location must be different from ISCI 361; fee payable prior to field course. [3.0-0] Prerequisite: GEO 361.</td>
</tr>
<tr>
<td>ISCI_V 498-101</td>
<td>Co-operative Work Placement III</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ISCI_V 498-101</td>
<td>Industrial or academic work experience for a minimum of 4 months. Technical report required. Restricted to students admitted to the Co-op Program in ISP; Prerequisite: GEO 498.</td>
</tr>
<tr>
<td>ISCI_V 498-201</td>
<td>Co-operative Work Placement III</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ISCI_V 498-201</td>
<td>Industrial or academic work experience for a minimum of 4 months. Technical report required. Restricted to students admitted to the Co-op Program in ISP; Prerequisite: GEO 498.</td>
</tr>
<tr>
<td>ISCI_V 499-101</td>
<td>Co-operative Work Placement IV</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ISCI_V 499-101</td>
<td>Industrial or academic work experience for a minimum of 4 months. Technical report required. Restricted to students admitted to the Co-op Program in ISP; Prerequisite: GEO 498.</td>
</tr>
<tr>
<td>ISCI_V 500-201</td>
<td>Co-operative Work Placement IV</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ISCI_V 500-201</td>
<td>Industrial or academic work experience for a minimum of 4 months. Technical report required. Restricted to students admitted to the Co-op Program in ISP; Prerequisite: GEO 498.</td>
</tr>
<tr>
<td>ITAL_V 101-101</td>
<td>Beginners' Italian I</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ITAL_V 101-101</td>
<td>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.</td>
</tr>
<tr>
<td>ITAL_V 101-102</td>
<td>Beginners' Italian I</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ITAL_V 101-102</td>
<td>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.</td>
</tr>
<tr>
<td>ITAL_V 101-103</td>
<td>Beginners' Italian I</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ITAL_V 101-103</td>
<td>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.</td>
</tr>
<tr>
<td>ITAL_V 101-104</td>
<td>Beginners' Italian I</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ITAL_V 101-104</td>
<td>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.</td>
</tr>
<tr>
<td>ITAL_V 101-105</td>
<td>Beginners' Italian I</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ITAL_V 101-105</td>
<td>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.</td>
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<tr>
<td>ITAL_V 101-101</td>
<td>Beginners' Italian I</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ITAL_V 101-101</td>
<td>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.</td>
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<tr>
<td>ITAL_V 101-201</td>
<td>Beginners' Italian I</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ITAL_V 101-201</td>
<td>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.</td>
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<tr>
<td>ITAL_V 101-202</td>
<td>Beginners' Italian I</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ITAL_V 101-202</td>
<td>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.</td>
</tr>
<tr>
<td>ITAL_V 101-203</td>
<td>Beginners' Italian I</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ITAL_V 101-203</td>
<td>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.</td>
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<tr>
<td>ITAL_V 101-204</td>
<td>Beginners' Italian I</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ITAL_V 101-204</td>
<td>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.</td>
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<tr>
<td>ITAL_V 101-W01</td>
<td>Beginners' Italian I</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ITAL_V 101-W01</td>
<td>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.</td>
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<tr>
<td>ITAL_V 101-W02</td>
<td>Beginners' Italian I</td>
<td>In Person Learning</td>
<td></td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>ITAL_V 101-W02</td>
<td>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.</td>
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</table>
Continuation of foundational elements of Italian language. Development of listening, reading, speaking and writing skills in the context of everyday situations in the present and past tenses. Alignment with CEFR level A1 objectives. Credits will be only granted for ITAL 101 or both ITAL 101, ITAL 102. Recommended pre-requisite: ITAL 101. In Person Learning 11:00 a.m. - 12:30 p.m. Mon Wed Fri

Continuation of foundational elements of Italian language. Development of listening, reading, speaking and writing skills in the context of everyday situations in the present and past tenses. Alignment with CEFR level A1 objectives. Credits will be only granted for ITAL 101 or both ITAL 101, ITAL 102. Recommended pre-requisite: ITAL 101. Hybrid Learning Tue Thu

Continuation of foundational elements of Italian language. Development of listening, reading, speaking and writing skills in the context of everyday situations in the present and past tenses. Alignment with CEFR level A1 objectives. Credits will be only granted for ITAL 101 or both ITAL 101, ITAL 102. Recommended pre-requisite: ITAL 101. In Person Learning Wed Fri

Continuation of foundational elements of Italian language. Development of listening, reading, speaking and writing skills in the context of everyday situations in the present and past tenses. Alignment with CEFR level A1 objectives. Credits will be only granted for ITAL 101 or both ITAL 101, ITAL 102. Recommended pre-requisite: ITAL 101. In Person Learning Wed Fri

Continuation of foundational elements of Italian language. Development of listening, reading, speaking and writing skills in the context of everyday situations in the present and past tenses. Alignment with CEFR level A1 objectives. Credits will be only granted for ITAL 101 or both ITAL 101, ITAL 102. Recommended pre-requisite: ITAL 101. In Person Learning Arranged

Where do Italy's glamour, lifestyle, traditions come from? This course introduces Italy's multifaceted ways of being and the cultural creations of the peninsula in history. Credit can only be applied for one of ITAL 110 or ITST 130. Equivalency: ITST 130. In Person Learning Mon Wed 12:00 p.m. - 2:00 p.m.

Introduction to complex language structures used to communicate in a variety of situations by using different tenses and modes. Enriched ability to comprehend, interact and express wishes or feelings in common personal and social contexts. Aligned with CEFR level A2 objectives. Recommended pre-requisite: ITAL 102 or successful completion of CEFR level A1. In Person Learning Mon Wed 11:00 a.m. - 1:00 p.m.

Introduction to complex language structures used to communicate in a variety of situations by using different tenses and modes. Enriched ability to comprehend, interact and express wishes or feelings in common personal and social contexts. Aligned with CEFR level A2 objectives. Recommended pre-requisite: ITAL 102 or successful completion of CEFR level A1. In Person Learning Mon Wed 10:00 a.m. - 12:00 p.m.

A thematic course surveying major classics of Italian cinema, emphasizing their historical, political, social, philosophical and technical contexts. Credit can only be applied for one of ITAL 234 or ITST 234. Equivalency: ITST 234. In Person Learning Mon Wed 11:00 a.m. - 1:00 p.m.

Continuation of foundational elements of Italian language. Development of listening, reading, speaking and writing skills in the context of everyday situations in the present and past tenses. Aligned with CEFR level A2 objectives. Recommended pre-requisite: ITAL 102 or successful completion of CEFR level A1. In Person Learning Mon Wed 11:00 a.m. - 1:00 p.m.

Continuation of foundational elements of Italian language. Development of listening, reading, speaking and writing skills in the context of everyday situations in the present and past tenses. Aligned with CEFR level A2 objectives. Recommended pre-requisite: ITAL 102 or successful completion of CEFR level A1. In Person Learning Mon Wed 10:00 a.m. - 12:00 p.m.

Continuation of foundational elements of Italian language. Development of listening, reading, speaking and writing skills in the context of everyday situations in the present and past tenses. Aligned with CEFR level A2 objectives. Recommended pre-requisite: ITAL 102 or successful completion of CEFR level A1. In Person Learning Mon Wed 10:00 a.m. - 12:00 p.m.

Continuation of foundational elements of Italian language. Development of listening, reading, speaking and writing skills in the context of everyday situations in the present and past tenses. Aligned with CEFR level A2 objectives. Recommended pre-requisite: ITAL 102 or successful completion of CEFR level A1. In Person Learning Mon Wed 10:00 a.m. - 12:00 p.m.

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Continuation of foundational elements of Italian language. Development of listening, reading, speaking and writing skills in the context of everyday situations in the present and past tenses. Aligned with CEFR level A2 objectives. Recommended pre-requisite: ITAL 102 or successful completion of CEFR level A1. In Person Learning Mon Wed 10:00 a.m. - 12:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Designation</th>
<th>Credits</th>
<th>Schedule</th>
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<tr>
<td>IWME_V 501-101</td>
<td>Environmental Fluid Mechanics</td>
<td>In Person Learning</td>
<td>3</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>IWME_V 502-101</td>
<td>Engineering Hydrology</td>
<td>In Person Learning</td>
<td>3</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>IWME_V 503-101</td>
<td>Chemical and Biological Industrial Water Treatment Design</td>
<td>In Person Learning</td>
<td>3</td>
<td>5:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>IWME_V 504-101</td>
<td>Water Resources Systems Planning and Management</td>
<td>In Person Learning</td>
<td>3</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<td>IWME_V 505-101</td>
<td>Water Infrastructure Capsule</td>
<td>In Person Learning</td>
<td>3</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>JAPN_V 100-001</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<td>JAPN_V 100-002</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
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<tr>
<td>JAPN_V 100-003</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>JAPN_V 100-004</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<td>JAPN_V 100-005</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
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<td>6:00 p.m. - 7:00 p.m.</td>
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<td>JAPN_V 100-006</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>8:00 p.m. - 9:00 p.m.</td>
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<tr>
<td>JAPN_V 100-007</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>10:00 p.m. - 11:00 p.m.</td>
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<tr>
<td>JAPN_V 100-008</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>12:00 a.m. - 1:00 a.m.</td>
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<td>JAPN_V 100-009</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>2:00 a.m. - 3:00 a.m.</td>
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<tr>
<td>JAPN_V 100-010</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>4:00 a.m. - 5:00 a.m.</td>
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<td>JAPN_V 100-011</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>6:00 a.m. - 7:00 a.m.</td>
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<td>JAPN_V 100-012</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>8:00 a.m. - 9:00 a.m.</td>
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<td>JAPN_V 100-013</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>JAPN_V 100-014</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<td>JAPN_V 100-015</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>JAPN_V 100-016</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>JAPN_V 100-017</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>6:00 p.m. - 7:00 p.m.</td>
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<tr>
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<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
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<td>JAPN_V 100-019</td>
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<td>In Person Learning</td>
<td>3</td>
<td>10:00 p.m. - 11:00 p.m.</td>
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<td>JAPN_V 100-020</td>
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<td>In Person Learning</td>
<td>3</td>
<td>12:00 a.m. - 1:00 a.m.</td>
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<tr>
<td>JAPN_V 100-021</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>2:00 a.m. - 3:00 a.m.</td>
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<tr>
<td>JAPN_V 100-022</td>
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<td>In Person Learning</td>
<td>3</td>
<td>4:00 a.m. - 5:00 a.m.</td>
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<tr>
<td>JAPN_V 100-023</td>
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<td>In Person Learning</td>
<td>3</td>
<td>6:00 a.m. - 7:00 a.m.</td>
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<tr>
<td>JAPN_V 100-024</td>
<td>Beginning Japanese IA</td>
<td>In Person Learning</td>
<td>3</td>
<td>8:00 a.m. - 9:00 a.m.</td>
</tr>
</tbody>
</table>

Credit/D/Fail grading.

12. Credit will be granted for only one of JAPN 100 or JAPN 160. This course is not eligible for Credit/D/Fail grading.

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.

Delivery of major water infrastructure projects from policies to planning and implementation, including schedule, costs, scope, impacts, performance and risk management, indigenous participation and innovative project financing and delivery approaches. Credit will be granted for only one of: IWME 501 or Civil 512. This course is not eligible for Credit/D/Fail grading. (3-0-3)

Water cycle and role of water in the environment and environmental engineering. Physical and statistical prediction methods for design related to hydrologic systems; precipitation, evaporation; snow hydrology, infiltration and base flow, surface runoff, channel and storage routing; and hydrograph methods. 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 and effluents generated from industrial processes. Industry applications: mining, oil sands, oil and gas, pulp and paper, agriculture, food and beverage. This course is not eligible for Credit/D/Fail grading.

Chemical and microbiological quality and contaminations, techniques and analytical procedures for assessing and monitoring chemical and microbiological water quality; water and wastewater quality standards, pollution prevention strategies and policies; risk analysis, asset management. This course is not eligible for Credit/D/Fail grading.

Art and science of modelling for integrated water resources planning and management; practice of developing and deploying simulation and optimization models to solve water problems; risk informed decision making frameworks and stakeholder processes for analysis of water resources systems. This course is not eligible for Credit/D/Fail grading.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Type</th>
<th>Day</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>JAPN 100-026</td>
<td>In Person Learning</td>
<td>Mon Tue Thu Fri</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>Online Learning</td>
</tr>
<tr>
<td>JAPN 100-015</td>
<td>In Person Learning</td>
<td>Mon Tue Thu Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Hybrid Learning</td>
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<tr>
<td>JAPN 100-020</td>
<td>In Person Learning</td>
<td>Mon Tue Thu Fri</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>Hybrid Learning</td>
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<tr>
<td>JAPN 200-019</td>
<td>In Person Learning</td>
<td>Mon Tue Thu Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>Hybrid Learning</td>
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</tbody>
</table>

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. Recommended pre-requisite: JAPN 100.
<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Credit/D/Fail</th>
</tr>
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<tr>
<td>JAPN 201-022</td>
<td>Beginning Japanese II B</td>
<td>W2</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Min Tue Thu Fri</td>
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<td>JAPN 201-023</td>
<td>Beginning Japanese II B</td>
<td>W2</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Min Tue Thu Fri</td>
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<tr>
<td>JAPN 201-024</td>
<td>Beginning Japanese II B</td>
<td>W2</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Min Tue Thu Fri</td>
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<tr>
<td>JAPN 201-025</td>
<td>Beginning Japanese II B</td>
<td>W2</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Min Tue Thu Fri</td>
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<tr>
<td>JAPN 260-021</td>
<td>Intensive Beginning Japanese II</td>
<td>W2</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Min Tue Thu Fri</td>
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<tr>
<td>JAPN 320-011</td>
<td>Intermediate Japanese I</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Min Tue Thu Fri</td>
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<tr>
<td>JAPN 320-012</td>
<td>Intermediate Japanese I</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Min Tue Thu Fri</td>
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<tr>
<td>JAPN 321-021</td>
<td>Intermediate Japanese II</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Min Tue Thu Fri</td>
</tr>
<tr>
<td>JAPN 322-011</td>
<td>Intermediate Japanese II I</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Min Tue Thu Fri</td>
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<tr>
<td>JAPN 323-011</td>
<td>Intermediate Japanese II</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Min Tue Thu Fri</td>
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<tr>
<td>JAPN 360-011</td>
<td>Intensive Intermediate Japanese I</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>JAPN 361-021</td>
<td>Intensive Intermediate Japanese II</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Min Tue Thu Fri</td>
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<tr>
<td>JAPN 400-011</td>
<td>Advanced Modern Japanese: Reading and Writing</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>JAPN 401-021</td>
<td>Advanced Modern Japanese: Reading and Writing</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Min Tue Thu Fri</td>
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<tr>
<td>JAPN 402-021</td>
<td>Advanced Modern Japanese: Conversation and Composition</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Min Tue Thu Fri</td>
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<tr>
<td>JAPN 422-011</td>
<td>Classical Japanese</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Min Tue Thu Fri</td>
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<tr>
<td>JAPN 624-021</td>
<td>Japanese for Professional Life</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>In Person Learning</td>
<td>Min Tue Thu Fri</td>
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<tr>
<td>JAPN 650-021</td>
<td>Advanced Oral Communication I</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>JAPN 452-011</td>
<td>Readings in Modern Japanese Essays</td>
<td>An advanced course in the reading and analysis of literary texts in modern Japanese. Advanced conversation, translation into English and practice in the use of standard reference tools as preparation for independent research in Japanese. Students are recommended to complete JAPN 410 prior to taking JAPN 452. Credit will be granted for only one of JAPN 452 or JAPN 410. Recommended pre-requisite: one of JAPN 401, JAPN 402. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>JAPN 453-021</td>
<td>Readings in Modern Japanese literature</td>
<td>Advanced Japanese language course combined with analysis of various media in literary, journalistic, and popular genres drawn from history, sociology, cultural studies, etc. Practice in the use of standard reference tools prepares students for independent research in Japanese. Students are recommended to complete JAPN 410 prior to JAPN 452. Credit will be granted for only one of JAPN 452 or JAPN 410. Recommended pre-requisite: one of JAPN 401, JAPN 402. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>JRNL 300-001</td>
<td>Journalism Here and Now</td>
<td>Examines the technologies and trends that are shaping the profession of journalism. Explore the dynamic, changing, and sometimes problematic world of journalism through critical analysis and creating works of journalism. Credit will be granted for only one of JRNL 300 or JRNL 401. Recommended pre-requisite: one of JAPN 401, JAPN 402. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>JRNL 400-001</td>
<td>Fundamentals of Community Reporting</td>
<td>Best practices of feature writing in relation to under-represented and marginalized communities with a focus on ethics and social responsibility. Credit cannot be granted for both JRNL 400 and JRNL 540. Equivalency: JRNL 490.</td>
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<tr>
<td>JRNL 420-001</td>
<td>Decoding Social Media</td>
<td>Examines the challenges, opportunities, and foundational research related to the emergence of social media platforms, services and tools as part of an evolving media ecosystem. Political, social, ethical and legal implications for media organizations, journalists and citizens. Restricted to fourth-year students. Prior to registration, a minimum of 12 credits of 300-level courses related to media, technology, and communications recommended. Credit will be granted for only one of JRNL 420 or JRNL 540. Equivalency: JRNL 540.</td>
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<tr>
<td>JRNL 425-001</td>
<td>Journalism and Social Change Movements</td>
<td>Examines the technologies and trends that are shaping the profession of journalism. Explore the dynamic, changing, and sometimes problematic world of journalism through critical analysis and creating works of journalism. Restricted to fourth-year students registered in the Journalism and Social Change minor. Credit will be granted for only one of JRNL 425 or JRNL 545. Equivalency: JRNL 545.</td>
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<tr>
<td>JRNL 440-001</td>
<td>Imagine Journalism Studio</td>
<td>Examines the role of journalism in relation to under-represented and marginalized communities with a focus on ethics and social responsibility. Credit cannot be granted for both JRNL 440 and JRNL 540. Equivalency: JRNL 490.</td>
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<tr>
<td>JRNL 450-001</td>
<td>Journalistic Critique and Journalism in a Digital Age</td>
<td>Feminist postcolonial critique of journalism, and an examination of underlying democratic ideals in a rapidly evolving media landscape. Credit cannot be granted for both JRNL 450 and JRNL 540. Equivalency: JRNL 540.</td>
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<td>JRNL 450-B_001</td>
<td>Journalism Practice and Standards</td>
<td>Restrictive to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of JRNL 450 or JRNL 540. Equivalency: JRNL 540.</td>
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<tr>
<td>JRNL 515-C_001</td>
<td>Integrated Journalism</td>
<td>Examines the role of journalism in relation to under-represented and marginalized communities with a focus on ethics and social responsibility. Credit cannot be granted for both JRNL 515 and JRNL 540. Equivalency: JRNL 540.</td>
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<td>JRNL 520-A_001</td>
<td>Special Topics in Contemporary Journalism</td>
<td>Restrictive to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of JRNL 520 or JRNL 540. Equivalency: JRNL 540.</td>
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<td>JRNL 520-D_001</td>
<td>Special Topics in Contemporary Journalism</td>
<td>Restrictive to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of JRNL 520 or JRNL 540. Equivalency: JRNL 540.</td>
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<td>JRNL 520-F_001</td>
<td>Special Topics in Contemporary Journalism</td>
<td>Restrictive to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of JRNL 520 or JRNL 540. Equivalency: JRNL 540.</td>
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<td>JRNL 520-G_001</td>
<td>Special Topics in Contemporary Journalism</td>
<td>Restrictive to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of JRNL 520 or JRNL 540. Equivalency: JRNL 540.</td>
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<td>JRNL 520-H_001</td>
<td>Special Topics in Contemporary Journalism</td>
<td>Restrictive to students in Master of Journalism program. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of JRNL 520 or JRNL 540. Equivalency: JRNL 540.</td>
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<td>JRNL V 540</td>
<td>Media Law</td>
<td>5:30 p.m. - 8:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>JRNL V 548</td>
<td>Final Research Project</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
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<td>JRNL V 549 A</td>
<td>Thesis</td>
<td>1:30 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
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<td>JRNL V 555 A</td>
<td>International Reporting</td>
<td>9:30 a.m. - 12:30 p.m.</td>
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<td>JRNL V 555 A</td>
<td>International Reporting</td>
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<td>JRNL V 555 A</td>
<td>International Reporting</td>
<td>8:00 p.m. - 11:00 p.m.</td>
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<td>JRNL V 555 A</td>
<td>International Reporting</td>
<td>11:00 p.m. - 2:00 a.m.</td>
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<td>KIN V 110</td>
<td>Human Anatomy</td>
<td>8:00 a.m. - 11:00 a.m.</td>
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<td>KIN V 110 A</td>
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<td>KIN V 110 B</td>
<td>Directed Studies</td>
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Credit Exclusion Lists: [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists](https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists) [3-2]

Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: [https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists](https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists) [3-2]
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<th>CRN</th>
<th>Days</th>
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<tr>
<td>110</td>
<td>Mon</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Systems Physiology I: Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2] In Person Learning Mon Wed Fri 10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>111</td>
<td>Mon</td>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
<td>Human Anatomy: Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2] In Person Learning Mon Wed Fri 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>112</td>
<td>Mon</td>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Health and Exercise Management: Role of physical activity in the maintenance of a healthy lifestyle. Application of basic physical fitness and exercise methods, including prevention and fitness appraisal. [2-2] In Person Learning Mon Wed Fri 10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>113</td>
<td>Mon</td>
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<td>Human Anatomy: Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2] In Person Learning Mon Wed Fri 10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>114</td>
<td>Mon</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Systems Physiology I: Structure of the neural, muscular, and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. Please consult the School of Kinesiology Credit Exclusion Lists: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists</a> [3-2] In Person Learning Mon Wed Fri 10:00 a.m. - 12:00 p.m.</td>
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<td>118</td>
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</tr>
</tbody>
</table>
Structure and function of the skeletal system, muscular system, integumentary system, nervous system, respiratory system, and endocrine 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-science/bachelor-science/credit-exclusion-lists [3-2].


Structure and function of the cardiovascular system, respiratory system, urinary system, digestive system, and immune system. Emphasis will be to develop an understanding of the integrative nature of the systems discussed. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists [3-2].


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Psychological theories and research related to sport and exercise behaviour. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/credit-exclusion-lists. This course is not eligible for Credit/D/Fail grading. [3-0]-[0-0]

Critical evaluation of research studies and methods with emphasis on the physical activity context. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/credit-exclusion-lists. Second-year standing. This course is not eligible for Credit/D/Fail grading. [3-0]-[0-0]

Introduction to the political, economic and social basis of leisure and sport; concepts, theories and problems. This course is not eligible for Credit/D/Fail grading. [3-0]

Critical evaluation of research studies and methods with emphasis on the physical activity context. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/credit-exclusion-lists. Second-year standing. This course is not eligible for Credit/D/Fail grading. [3-0]-[0-0]

Introduction to the political, economic and social basis of leisure and sport; concepts, theories and problems. This course is not eligible for Credit/D/Fail grading. [3-0]

Processes underlying motor control and influencing motor skills and factors influencing acquisition, performance, and movement control. This course is not eligible for Credit/D/Fail grading. [3-0]-[0-0]

Prerequisites: All of KIN 110, KIN 120, KIN 131.

Processes underlying motor control and influencing motor skills and factors influencing acquisition, performance, and movement control. This course is not eligible for Credit/D/Fail grading. [3-0]-[0-0]

Prerequisites: All of KIN 110, KIN 120, KIN 131.

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Prerequisites: All of KIN 110, KIN 120, KIN 131.

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Prerequisites: All of KIN 110, KIN 120, KIN 131.

Study of nutrition and its application to physical activity and health. Macronutrient 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]-[0-0]

Prerequisites: All of KIN 110, KIN 120, KIN 131.

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Prerequisites: All of KIN 110, KIN 120, KIN 131.

Critical evaluation of research studies and methods with emphasis on the physical activity context. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/credit-exclusion-lists. This course is not eligible for Credit/D/Fail grading. [3-0]-[0-0]

Prerequisites: All of KIN 110, KIN 131.

Critical evaluation of research studies and methods with emphasis on the physical activity context. Please consult the School of Kinesiology Credit Exclusion Lists: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/school-kinesiology/credit-exclusion-lists. This course is not eligible for Credit/D/Fail grading. [3-0]-[0-0]

Prerequisites: All of KIN 110, KIN 131.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<th>Course Name</th>
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<tbody>
<tr>
<td>KIN 215-12A</td>
<td>Exercise Physiology I</td>
<td>KIN 215-12B</td>
<td>Exercise Physiology I</td>
</tr>
<tr>
<td>KIN 215-12C</td>
<td>Exercise Physiology I</td>
<td>KIN 215-12D</td>
<td>Exercise Physiology I</td>
</tr>
<tr>
<td>KIN 216-001</td>
<td>Human Athletic Performance</td>
<td>KIN 316-001</td>
<td>Biomechanical Properties of Tissues</td>
</tr>
<tr>
<td>KIN 311-001</td>
<td>Sensorimotor Control of Human Movement</td>
<td>KIN 313-001</td>
<td>Neuroneuromuscular Integration of Human Movement</td>
</tr>
<tr>
<td>KIN 315-001</td>
<td>Advanced Applications of Exercise Physiology</td>
<td>KIN 320-001</td>
<td>Exercise Testing and Prescription</td>
</tr>
<tr>
<td>W1</td>
<td>Health Policy and Society</td>
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<tr>
<td>W2</td>
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<td>Mon</td>
<td>In Person Learning</td>
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<tr>
<td>Wed</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>Fri</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>Fri</td>
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<tr>
<td>1:30 p.m. - 3:30 p.m.</td>
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<td>2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>4:00 p.m. - 6:00 p.m.</td>
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<td>4:00 p.m. - 7:00 p.m.</td>
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<td>4:00 p.m. - 7:00 p.m.</td>
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<td>3:00 p.m. - 6:00 p.m.</td>
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<td>3:00 p.m. - 6:00 p.m.</td>
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</tr>
</tbody>
</table>

Explore how the cardiovascular and respiratory systems are regulated and integrated during exercise.

Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132, KIN 235.

Conditioning methods, exercise techniques and appraisal methods for fitness in physical activity and sport.

Prerequisite: All of KIN 110, KIN 120, KIN 205, KIN 206.

Mechanics of muscular contraction and how the mechanical properties of the muscle, ligaments, tendons, and bone work synergistically.

Prerequisite: All of KIN 110, KIN 131.

Conditioning methods, exercise techniques and appraisal methods for fitness in physical activity and sport.

Prerequisite: All of KIN 110, KIN 120, KIN 205, KIN 206.

An exploration of human movement and related issues pertaining to sports and athletic performance for non-kinesiology students.

Not for credit in the B.Kin. Program.

Prerequisite: Second-year standing.

Conditioning methods, exercise techniques and appraisal methods for fitness in physical activity and sport.

Prerequisite: All of KIN 110, KIN 120, KIN 205, KIN 206.

Acute and chronic effects of exercise on body systems; basic concepts of cardiovascular, respiratory and muscular responses to physical activity.

Prerequisite: All of KIN 110, KIN 120, KIN 131, KIN 132.

Conditioning methods, exercise techniques and appraisal methods for fitness in physical activity and sport.

Prerequisite: All of KIN 110, KIN 120, KIN 205, KIN 206.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title of Course</th>
<th>Credits</th>
<th>Schedule</th>
<th>In Person Learning</th>
<th>Arranged</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>KIN 341-001</td>
<td>Laboratory Investigations in Neuromechanical Kinesiology</td>
<td>3-0-0</td>
<td>Wed</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>KIN 341-101</td>
<td>Creating Effective, Developmentally Appropriate, Physical Activity Learning Environments</td>
<td>2-2-0</td>
<td>Wed</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>KIN 341-110</td>
<td>Creating Effective, Developmentally Appropriate, Physical Activity Learning Environments</td>
<td>2-0-2</td>
<td>Wed</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>KIN 342-001</td>
<td>Laboratory Investigations in Neuromechanical Kinesiology</td>
<td>3-0-0</td>
<td>Wed</td>
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<tr>
<td>KIN 344-001</td>
<td>Leisure Services for Persons with a Disability</td>
<td>3-0-0</td>
<td>Wed</td>
<td>In Person Learning</td>
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</tr>
<tr>
<td>KIN 419-001</td>
<td>Indigenous Sport and Physical Culture in Settler Canada</td>
<td>3-0-0</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>Arranged</td>
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</tr>
<tr>
<td>L2A</td>
<td>Laboratory Investigations in Neuromechanical Kinesiology</td>
<td>3-0-0</td>
<td>Mon</td>
<td>In Person Learning</td>
<td>Arranged</td>
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</tr>
</tbody>
</table>

Notes:
- KIN 341-001, KIN 341-101, and KIN 341-110 cover topics in neuromechanical kinesiology, including biomechanics, motor behaviour, and neurophysiology. Prerequisite: All of KIN 110, KIN 131, KIN 211, and KIN 216.
- KIN 342-001, KIN 342-101, and KIN 342-110 cover creating effective, developmentally appropriate, physical activity learning environments in a variety of settings. Prerequisite: One of KIN 246.
- KIN 344-001 covers policy issues relating to leisure opportunities for persons with disabilities. Prerequisite: All of KIN 160, KIN 262.
- KIN 419-001 covers historical and contemporary issues in Canada that shape Indigenous sport and physical activity, health programs, and policies. Prerequisite: All of KIN 150, KIN 262.
- L2A covers laboratory investigations in neuromechanical kinesiology. Prerequisite: All of KIN 110, KIN 131, KIN 140, KIN 150, KIN 160, KIN 211.
In Person Learning

**Tue Thu**

**Advanced Seminar in Neuromechanics**

In Person Learning

001

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

Mon

**Exploring the physiological and biochemical changes that occur in skeletal muscle, adipose tissue, and liver following exercise. Interactions between exercise, nutrition, and commonly prescribed medications used for the treatment of diabetes and cardiovascular disease will also be examined.**

**In Person Learning**

Thu Thu

4:00 p.m. - 6:00 p.m.

Tue

**Exploring the physiological and biochemical changes that occur in skeletal muscle, adipose tissue, and liver following exercise. Interactions between exercise, nutrition, and commonly prescribed medications used for the treatment of diabetes and cardiovascular disease will also be examined.**

**In Person Learning**

Thu Thu

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

Wed Wed

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

D_002

Psychobiology of Physical Activity

Online Learning

F

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

Mon Wed

**Current perspectives on health promotion and education; design and implementation of health promotion strategies in a variety of areas, particularly health promotion/education strategies aimed at encouraging physical activity.**

**In Person Learning**

Arranged

Arranged

**Examination of the psychological and behavioral processes of athletes from a social justice perspective. The focus will be on the role of social structures, sociocultural norms, power relations, and social identities in shaping athletes' perceptions and beliefs in sport.**

**In Person Learning**

Mon Wed

3:30 p.m. - 5:00 p.m.

**Examination of the influence of psychological factors across different settings and populations, with a particular focus on interventions aimed at enhancing mental health. Understanding psychology can be used to design effective interventions at the individual and community level.**

**In Person Learning**

Mon Wed Fri

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

**Processes, techniques and considerations in the planning, implementation and evaluation of physical education, sport and exercise programs in both public and private agencies.**

**In Person Learning**

Wed

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

**In Person Learning**

465-001

KIN_V

444-L2A

KIN_V

442-901

KIN_V

459-001

KIN_V

453-001

KIN_V

464-001

KIN_V

465-002

KIN_V

466-12A

KIN_V

466-001

KIN_V

459-001

KIN_V

460-001

KIN_V

465-001

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468-002

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467-001

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448-001

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447-001

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446-001

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444-001

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443-001

KIN_V
Topics consider how neurological, cognitive, sensory, mechanical and muscular systems interact to control human movement and 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.

In Person Learning  Tue  4:30 p.m. - 6:30 p.m.

Undergraduate Research Experience in Kinesiology

Topics will be approached from multiple perspectives in a course designed to explore the interdisciplinary nature of the field of kinesiology. [3-0] Prerequisite: Restricted to students in the BKIN program with fourth-year standing.

In Person Learning  Wed  10:30 a.m. - 12:00 p.m.

Directed Studies in Kinesiology

Undergraduate Program.

Opportunity for students to conduct an independent study in a subject area of interest to them, under the direction of a KIN faculty member. Prerequisite: Third-year standing and permission of the Associate Director, Undergraduate Program.

In Person Learning  Wed  3:00 p.m. - 5:00 p.m.

Directed Studies in Kinesiology

Opportunity for independent study that includes original data collection, under the direction of a KIN faculty member. Prerequisite: Third-year standing and permission of the Associate Director, Undergraduate Program.

In Person Learning  Wed  10:00 a.m. - 12:00 p.m.

Directed Studies in Kinesiology

Applied Research Experience in Kinesiology

Topics consider how neurological, cognitive, sensory, mechanical and muscular systems interact to control human movement and 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.

In Person Learning  Wed  10:00 a.m. - 12:00 p.m.

Directed Studies in Kinesiology

Opportunity for students to conduct an independent study in a subject area of interest to them, under the direction of a KIN faculty member. Prerequisite: Third-year standing and permission of the Associate Director, Undergraduate Program.

In Person Learning  Wed  3:00 p.m. - 5:00 p.m.

Directed Studies in Kinesiology

Opportunity for independent study that includes original data collection, under the direction of a KIN faculty member. Prerequisite: Third-year standing and permission of the Associate Director, Undergraduate Program.

In Person Learning  Wed  10:00 a.m. - 12:00 p.m.

Directed Studies in Kinesiology

Undergraduate Program.

Opportunity for students to conduct an independent study in a subject area of interest to them, under the direction of a KIN faculty member. Prerequisite: Third-year standing and permission of the Associate Director, Undergraduate Program.

In Person Learning  Wed  3:00 p.m. - 5:00 p.m.

Directed Studies in Kinesiology

Opportunity for independent study that includes original data collection, under the direction of a KIN faculty member. Prerequisite: Third-year standing and permission of the Associate Director, Undergraduate Program.

In Person Learning  Wed  10:00 a.m. - 12:00 p.m.

Directed Studies in Kinesiology

Opportunity for students to conduct an independent study in a subject area of interest to them, under the direction of a KIN faculty member. Prerequisite: Third-year standing and permission of the Associate Director, Undergraduate Program.

In Person Learning  Wed  3:00 p.m. - 5:00 p.m.

Directed Studies in Kinesiology

Opportunity for independent study that includes original data collection, under the direction of a KIN faculty member. Prerequisite: Third-year standing and permission of the Associate Director, Undergraduate Program.

In Person Learning  Wed  10:00 a.m. - 12:00 p.m.

Directed Studies in Kinesiology

Opportunity for students to conduct an independent study in a subject area of interest to them, under the direction of a KIN faculty member. Prerequisite: Third-year standing and permission of the Associate Director, Undergraduate Program.

In Person Learning  Wed  3:00 p.m. - 5:00 p.m.

Directed Studies in Kinesiology

Opportunity for independent study that includes original data collection, under the direction of a KIN faculty member. Prerequisite: Third-year standing and permission of the Associate Director, Undergraduate Program.

In Person Learning  Wed  10:00 a.m. - 12:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Type</th>
<th>Credits</th>
<th>Days</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN_V 500-K</td>
<td>Special Topics in Kinesiology</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Mon</td>
<td>9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>KIN_V 500-L</td>
<td>Special Topics in Kinesiology</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Mon</td>
<td>1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>KIN_V 501-B</td>
<td>Computational Methods for Data Acquisition and Signal Processing in Kinesiology</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Tue</td>
<td>8:30 a.m. - 11:30 a.m.</td>
</tr>
<tr>
<td>KIN_V 517-B</td>
<td>Business of High Performance Sport in Canada</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Tue</td>
<td>1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>KIN_V 517-WB1</td>
<td>Business of High Performance Sport in Canada</td>
<td>Online Learning</td>
<td>W2</td>
<td>Wed</td>
<td>10:00 a.m. - 11:30 a.m.</td>
</tr>
<tr>
<td>KIN_V 517-WB6</td>
<td>Business of High Performance Sport in Canada</td>
<td>Online Learning</td>
<td>W2</td>
<td>Thu</td>
<td>9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>KIN_V 520-A</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Thu</td>
<td>2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>KIN_V 530-A</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Thu</td>
<td>5:00 p.m. - 6:30 p.m.</td>
</tr>
<tr>
<td>KIN_V 531-B</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Fri</td>
<td>1:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>KIN_V 534-B</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Fri</td>
<td>5:00 p.m. - 6:30 p.m.</td>
</tr>
<tr>
<td>KIN_V 540-B</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Mon</td>
<td>9:30 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>KIN_V 541-B</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Mon</td>
<td>1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>KIN_V 546-B</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Tue</td>
<td>10:00 a.m. - 11:30 a.m.</td>
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<tr>
<td>KIN_V 550-B</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Tue</td>
<td>12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>KIN_V 560-B</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Wed</td>
<td>12:30 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>KIN_V 561-B</td>
<td>Directed Studies</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Wed</td>
<td>2:00 p.m. - 4:00 p.m.</td>
</tr>
</tbody>
</table>

**Topics covered:**

- **Human Sensorimotor Control:**
  - Technical and applied knowledge in data science and analytics related to high performance sports.
  - Application of findings from sport profile and gap analysis to the planning and design of high performance training and coaching programs.
  - Focuses on quadrupedal, athletic, and microcycle planning to integrate key factors that impact athlete performance and progression along the athlete development pathway.
  - This course is not eligible for Credit/D/Fail grading.
  - In Person Learning
  - Thu
  - 2:00 p.m. - 5:00 p.m.

- **Business of High Performance Sport in Canada:**
  - Canada’s sport system, its governance and stakeholders; financial management for high performance sport; communications; and marketing.
  - Focuses on governance and stakeholders; financial management for high performance sport; communications; and marketing.
  - This course is not eligible for Credit/D/Fail grading.
  - In Person Learning
  - Arranged

- **Computational Methods for Data Acquisition and Signal Processing in Kinesiology:**
  - Hands-on laboratory course with an emphasis on developing critical computational research skills for the acquisition, processing, and presentation of data related to human movements.
  - Recommended prerequisite: Undergraduate degree in kinesiology or related field including neuromuscular science courses.
  - This course is not eligible for Credit/D/Fail grading.
  - Online Learning
  - Wed
  - 10:00 a.m. - 11:30 a.m.

- **Special Topics in Kinesiology:**
  - Application of findings from sport profile and gap analysis to the planning and design of high performance training and coaching programs.
  - Focuses on quadrupedal, athletic, and microcycle planning to integrate key factors that impact athlete performance and progression along the athlete development pathway.
  - This course is not eligible for Credit/D/Fail grading.
  - In Person Learning
  - Thu
  - 9:00 a.m. - 12:00 p.m.

- **Qualitative Methods in Sport, Leisure, and Health Studies:**
  - Interpretation and evaluation of research methods and scientific findings related to coaching sciences and exercise and health-related professions.
  - This course is not eligible for Credit/D/Fail grading.
  - Online Learning
  - Fri
  - 8:30 a.m. - 10:30 a.m.
Prerequisite: KIN 572.

Within the high performance sport arena. This course is not eligible for Credit/D/Fail grading.

Skill acquisition for athlete and coach development. This course is not eligible for Credit/D/Fail grading.

Analysis of athlete performance and appropriate design and application of coaching intervention and skill acquisition for athlete and coach development. This course is not eligible for Credit/D/Fail grading.

Performance training and coaching programs. Focuses on quadrennial, annual, meso and microcycle development pathway. This course is not eligible for Credit/D/Fail grading.

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.

Directed Field Studies in Kinesiology

Arranged

In Person Learning

Performance Planning

Coaching Effectiveness

Online Learning

Arranged

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

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.

High Performance Sport Inquiry

In Person Learning

Performance Planning

Coaching Effectiveness

Online Learning

Arranged

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

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.

Master's Graduating Paper

In Person Learning

Performance Planning

Directed Field Studies in Kinesiology

In Person Learning

Performance Planning

Coaching Effectiveness

Online Learning

Arranged

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

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.

Performance Planning

Coaching Effectiveness

Online Learning

Arranged

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

Analysis of athlete performance and appropriate design and application of coaching intervention and skill acquisition for athlete and coach development. This course is not eligible for Credit/D/Fail grading.

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.

Directed Field Studies in Kinesiology

In Person Learning

Performance Planning

Coaching Effectiveness

Online Learning

Arranged

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

Performance Planning

Coaching Effectiveness

Online Learning

Arranged

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

Performance Planning

Coaching Effectiveness

Online Learning

Arranged

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

Performance Planning

Coaching Effectiveness

Online Learning

Arranged

This course is not eligible for Credit/D/Fail grading.
<table>
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<tr>
<th>Course Code</th>
<th>Title</th>
<th>Mode</th>
<th>Credits</th>
<th>Description</th>
<th>Schedule</th>
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<tr>
<td>KIN_V 508-01</td>
<td>Directed Field Studies in Kinesiology</td>
<td>W1</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>Online</td>
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<tr>
<td>KIN_V 508-02</td>
<td>Directed Field Studies in Kinesiology</td>
<td>W2</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person</td>
</tr>
<tr>
<td>KIN_V 508-03</td>
<td>Directed Field Studies in Kinesiology</td>
<td>W3</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person</td>
</tr>
<tr>
<td>KIN_V 599-A_001</td>
<td>Master's Thesis</td>
<td>W1</td>
<td>Pass/Fail</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</td>
</tr>
<tr>
<td>KIN_V 599-A_002</td>
<td>Master's Thesis</td>
<td>W1</td>
<td>Pass/Fail</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</td>
</tr>
<tr>
<td>KIN_V 699-001</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person</td>
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<tr>
<td>KIN_V 699-002</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person</td>
</tr>
<tr>
<td>KIN_V 699-003</td>
<td>Doctoral Dissertation</td>
<td>W3</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person</td>
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<tr>
<td>KORN_V 102-001</td>
<td>Basic Korean</td>
<td>W1</td>
<td>001</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person</td>
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<tr>
<td>KORN_V 102-002</td>
<td>Basic Korean</td>
<td>W1</td>
<td>003</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person</td>
</tr>
<tr>
<td>KORN_V 102-003</td>
<td>Basic Korean</td>
<td>W1</td>
<td>004</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person</td>
</tr>
<tr>
<td>KORN_V 102-005</td>
<td>Basic Korean</td>
<td>W1</td>
<td>005</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person</td>
</tr>
<tr>
<td>KORN_V 102-006</td>
<td>Basic Korean</td>
<td>W1</td>
<td>006</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person</td>
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<tr>
<td>KORN_V 102-007</td>
<td>Basic Korean</td>
<td>W1</td>
<td>007</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person</td>
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<tr>
<td>KORN_V 102-011</td>
<td>Basic Korean</td>
<td>W2</td>
<td>011</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>Hybrid</td>
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<tr>
<td>KORN_V 200-001</td>
<td>Intermediate Korean</td>
<td>W1</td>
<td>001</td>
<td>Reading and writing of modern colloquial Korean at an intermediate level. As of 2011W, credit will be granted for only one of KORN 201/202 or KORN 102. Recommended pre-requisites: one of KORN 100, KORN 102.</td>
<td>Hybrid</td>
</tr>
<tr>
<td>KORN_V 200-002</td>
<td>Intermediate Korean</td>
<td>W1</td>
<td>002</td>
<td>Reading and writing of modern colloquial Korean at an intermediate level. As of 2011W, credit will be granted for only one of KORN 201/202 or KORN 102. Recommended pre-requisites: one of KORN 100, KORN 102.</td>
<td>Hybrid</td>
</tr>
<tr>
<td>KORN_V 301-011</td>
<td>Readings in Korean Topics I</td>
<td>W1</td>
<td>011</td>
<td>Reading and translating twentieth century Korean short fiction. Recommended pre-requisites: either KORN 300 or both KORN 301, KORN 302.</td>
<td>In-Person</td>
</tr>
<tr>
<td>KORN_V 301-012</td>
<td>Readings in Korean Topics II</td>
<td>W2</td>
<td>021</td>
<td>Continuation of KORN 301. As of 2011W, credit will be granted for only one of KORN 301/302 or KORN 303. Recommended pre-requisites: KORN 301 or permission of instructor.</td>
<td>In-Person</td>
</tr>
<tr>
<td>KORN_V 351-011</td>
<td>Introduction to Hanja: Sinographs and Sino-Korean Vocabulary I</td>
<td>W1</td>
<td>011</td>
<td>Chinese characters in their Korean pronunciations and shapes. Students learn approximately 250 sinographs, related inorganic vocabulary, and do structured readings in mixed scripts on aspects of Korean language and contemporary life. This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person</td>
</tr>
<tr>
<td>KORN_V 352-011</td>
<td>Introduction to Hanja: Sinographs and Sino-Korean Vocabulary II</td>
<td>W2</td>
<td>021</td>
<td>Continuation of KORN 351. Students learn an additional 250 sinographs and related inorganic vocabulary. This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person</td>
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</table>
KORN_V 410 B 021 Modern Korean Short Fiction W2 Reading and translating twentieth-century Korean short fiction. Recommended pre-requisites: either KORN 300 or 316 or 415. In Person Learning Arranged Arranged

KORN_V 415 A 011 Korean Conversation and Composition W1 Structured conversation practice and weekly composition assignments based on viewing one designated Korean television program per week. Recommended pre-requisite: KORN 316. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

KORN_V 415 B 021 Korean Conversation and Composition W2 Structured conversation practice and weekly composition assignments based on viewing one designated Korean television program per week. Recommended pre-requisite: KORN 415. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

KORN_V 520 021 Readings in Middle and Early Modern Korean W2 History and structure of the Korean language through targeted close readings in different editions of an illustrated novel from the 15th and 16th centuries. Prerequisite: Non-heritage speakers should have completed KORN 415 or be taking it concurrently. Heritage and native speakers of Korean welcome. In Person Learning Tue Thu 5:00 p.m. - 6:30 p.m.

LAIS_V 605-001 LAIS_V 605 001 Seminar in Advanced Research Methods W1 This course is not eligible for Credit/D/Fail grading. In Person Learning Tue 8:00 a.m. - 12:00 p.m.

LAIS_V 607-001 LAIS_V 607 001 Doctoral Preseminar W1 This course is not eligible for Credit/D/Fail grading. In Person Learning Thu 2:00 p.m. - 5:00 p.m.

LAIS_V 608-002 LAIS_V 608 002 Academic and Research Practices in Library, Archival and Information Studies W2 This course is not eligible for Credit/D/Fail grading. In Person Learning Thu 8:00 a.m. - 12:00 p.m.

LAIS_V 620-001 LAIS_V 620 001 Advanced Study in Major Area W1 This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LAIS 605, LAIS 607 and one of LAIS 608, LAIS 609. In Person Learning Arranged Arranged

LAIS_V 620-002 LAIS_V 620 002 Advanced Study in Major Area W2 This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LAIS 605, LAIS 607 and one of LAIS 608, LAIS 609. In Person Learning Arranged Arranged

LAIS_V 620-003 LAIS_V 620 003 Advanced Study in Major Area W1-2 This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LAIS 605, LAIS 607 and one of LAIS 608, LAIS 609. In Person Learning Arranged Arranged

LAIS_V 621-001 LAIS_V 621 001 Advanced Study in Minor Area W1 This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LAIS 605, LAIS 607 and one of LAIS 608, LAIS 609. In Person Learning Arranged Arranged

LAIS_V 621-002 LAIS_V 621 002 Advanced Study in Minor Area W2 This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LAIS 605, LAIS 607 and one of LAIS 608, LAIS 609. In Person Learning Arranged Arranged

LAIS_V 621-003 LAIS_V 621 003 Advanced Study in Minor Area W1-2 This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LAIS 605, LAIS 607 and one of LAIS 608, LAIS 609. In Person Learning Arranged Arranged

LAIS_V 608-001 LAIS_V 608 001 Doctoral Dissertation W1 In Person Learning Arranged Arranged

LAIS_V 608-002 LAIS_V 608 002 Doctoral Dissertation W2 In Person Learning Arranged Arranged

LAIS_V 608-003 LAIS_V 608 003 Doctoral Dissertation W1-2 In Person Learning Arranged Arranged

LARC_V 316-002 LARC_V 316 002 Trees and Shrubs in Landscape W1 Culture and identification of landscape materials with emphasis on woody plants. Elements of landscape composition. Suitable for students of other faculties and departments interested in landscape materials and their uses, but priority given to: Agriculture and Landscape Architecture students. (2-2) In Person Learning Tue 9:30 a.m. - 11:00 a.m.

LARC_V 316-001 LARC_V 316 001 Trees and Shrubs in Landscape W1 Culture and identification of landscape materials with emphasis on woody plants. Elements of landscape composition. Suitable for students of other faculties and departments interested in landscape materials and their uses, but priority given to: Agriculture and Landscape Architecture students. (2-2) In Person Learning Arranged Arranged

LARC_V 501-001 LARC_V 501 001 Landscape Architecture Design Studio I W1 Landscape design methods and processes. This course is not eligible for Credit/D/Fail grading. Corequisite: LARC 511. In Person Learning Thu 2:00 p.m. - 6:00 p.m.

LARC_V 502-001 LARC_V 502 001 Landscape Architecture Design Studio II W1 This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LARC 316, LARC 501. In Person Learning Thu 2:00 p.m. - 6:00 p.m.

LARC_V 503-001 LARC_V 503 001 Landscape Architecture Design Studio III W2 This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Fri 1:30 p.m. - 5:30 p.m.

LARC_V 504-001 LARC_V 504 001 Landscape Architecture Design Studio IV W1 This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LARC 502, ARCH 501. In Person Learning Tue Fri 1:30 p.m. - 5:30 p.m.

LARC_V 504-002 LARC_V 504 002 Landscape Architecture Design Studio IV W1 This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LARC 502, ARCH 501. In Person Learning Arranged Arranged
LARC_V 504-003  
LARC_V 504  083  
Landscape Architecture Design Studio IV  
W1  
This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LARC 502, ARCH 501.  
In Person Learning  
Arranged  
Arranged

LARC_V 504-004  
LARC_V 504  084  
Landscape Architecture Design Studio IV  
W1  
This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LARC 502, ARCH 501.  
In Person Learning  
Arranged  
Arranged

LARC_V 504-005  
LARC_V 504  081  
Landscape Architecture Design Studio IV  
W1  
This course is not eligible for Credit/D/Fail grading. Prerequisite: One of LARC 502, ARCH 501.  
In Person Learning  
Tuesday-Friday  
1:30 p.m. - 6:00 p.m.

LARC_V 525-001  
LARC_V 525  081  
Landscape Architecture Design Studio V  
W1  
This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 504.  
In Person Learning  
Tuesday-Friday  
1:30 p.m. - 6:00 p.m.

LARC_V 525-002  
LARC_V 525  082  
Landscape Architecture Design Studio V  
W1  
This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 504.  
In Person Learning  
Arranged  
Arranged

LARC_V 525-003  
LARC_V 525  083  
Landscape Architecture Design Studio V  
W1  
This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 504.  
In Person Learning  
Arranged  
Arranged

LARC_V 525-004  
LARC_V 525  084  
Landscape Architecture Design Studio V  
W1  
This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 504.  
In Person Learning  
Arranged  
Arranged

LARC_V 525-005  
LARC_V 525  085  
Landscape Architecture Design Studio V  
W1  
This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 504.  
In Person Learning  
Tuesday-Friday  
1:30 p.m. - 6:00 p.m.

LARC_V 551-001  
LARC_V 551  C  
Advanced Field Studies in Landscape Architecture  
W1  
Commences in August one week prior to Labour Day. Enrollment mandatory for all incoming students. Credit will be granted for only one of LARC 511 or ARCH 520. Pass/Fail. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

LARC_V 511-001  
LARC_V 511  101  
Introductory Workshop  
W1  
Ethical, legal and business context of professional practice, including contracts, project management. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

LARC_V 512-001  
LARC_V 512  081  
Landscape Architecture History I  
W1  
Environmental structures and the quality of urban life. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Tuesday-Thursday  
11:00 a.m. - 12:30 p.m.

LARC_V 523-001  
LARC_V 523  081  
Landscape Architecture Theory  
W2  
Theoretical positions in landscape architecture and their relation to designed landscapes. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Monday-Wednesday  
11:00 a.m. - 12:30 p.m.

LARC_V 525-002  
LARC_V 525  082  
Design Research Methods  
W2  
Examination of various design research methods in contemporary practice in landscape architecture. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

LARC_V 521-002  
LARC_V 521  082  
Landscape Technologies I  
W2  
Landscapes of the built environment. Credit will be granted for only one of LARC 430 or LARC 431. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Monday  
2:00 p.m. - 5:00 p.m.

LARC_V 522-002  
LARC_V 522  082  
Landscape Technologies II  
W1  
History, principles, and theory of landscape architecture in Europe, America, and Asia. Influence of cultural attitudes and societal change upon natural environments, parks, gardens, and town planning. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Tuesday-Thursday  
11:00 a.m. - 12:30 p.m.

LARC_V 540-001  
LARC_V 540  081  
Site Analysis and Planning  
W1  
Evaluating site analysis and planning of relatively complex sites, emphasizing stormwater management design. Credit will be granted for only one of LARC 540 or ARCH 520. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Monday-Wednesday  
11:00 a.m. - 12:30 p.m.

LARC_V 541-002  
LARC_V 541  082  
Landscape Planning and Management  
W2  
Analysis and planning of landscapes to communicate sustainability and to inform public awareness and design by exploring the relationship between aesthetics and sustainability. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Wednesday  
2:00 p.m. - 5:00 p.m.

LARC_V 542-001  
LARC_V 542  201  
Aesthetics and Sustainability  
W2  
Ecological structures and the structure and quality of urban life. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Wednesday  
2:00 p.m. - 5:00 p.m.

LARC_V 543-001  
LARC_V 543  101  
Environment and Urban Form  
W1  
Landscape architecture and design by exploring the relationship between aesthetics and sustainability. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

LARC_V 551-001  
LARC_V 551  081  
Professional Practice  
W2  
Ethical, legal and business context of professional practice, including contracts, project management. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Tuesday-Thursday  
11:00 a.m. - 12:30 p.m.

LARC_V 570-A_101  
LARC_V 570  A  
Co-operative Education  
W1  
Approved and supervised work experience in an established company or organization for a minimum of one academic term. Technical report required. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

LARC_V 570-A_101  
LARC_V 570  A  
Co-operative Education  
W2  
Approved and supervised work experience in an established company or organization for a minimum of one academic term. Technical report required. This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged

LARC_V 580-A_101  
LARC_V 580  A  
Directed Studies in Design Analysis, Programming and Theory  
W1  
This course is not eligible for Credit/D/Fail grading.  
In Person Learning  
Arranged  
Arranged
<table>
<thead>
<tr>
<th>Code</th>
<th>Type</th>
<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LARC_V 204-L1G</td>
<td>Seminar-Special Topics</td>
<td>Thesis: Special Topics</td>
<td>Mon-Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 525.</td>
</tr>
<tr>
<td>LARC_V 204-101</td>
<td>Graduate Project I</td>
<td>Graduate Project Part I</td>
<td>W1</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Design component, completion, and defense of the graduation design project. This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 595.</td>
</tr>
<tr>
<td>LARC_V 204-11C</td>
<td>Graduate Project II</td>
<td>Graduate Project Part II</td>
<td>W2</td>
<td>1:30 p.m. - 2:30 p.m.</td>
<td>In Person Learning</td>
<td>Open only to M.A.S.L.A. candidates. This course is not eligible for Credit/D/Fail grading. Prerequisite: LARC 598.</td>
</tr>
<tr>
<td>LARC_V 201-101</td>
<td>Directed Studies</td>
<td>Directed Studies in Landscape Planning and Sustainability</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.</td>
</tr>
<tr>
<td>LARC_V 201-11D</td>
<td>Directed Studies</td>
<td>Directed Studies in Landscape Planning and Sustainability</td>
<td>W2</td>
<td>1:30 p.m. - 2:30 p.m.</td>
<td>In Person Learning</td>
<td>Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.</td>
</tr>
<tr>
<td>LARC_V 201-12A</td>
<td>Directed Studies</td>
<td>Directed Studies in Landscape Planning and Sustainability</td>
<td>W3</td>
<td>3:30 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
<td>Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.</td>
</tr>
<tr>
<td>LARC_V 201-12B</td>
<td>Directed Studies</td>
<td>Directed Studies in Landscape Planning and Sustainability</td>
<td>W4</td>
<td>4:30 p.m. - 5:30 p.m.</td>
<td>In Person Learning</td>
<td>Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.</td>
</tr>
<tr>
<td>LARC_V 201-12C</td>
<td>Directed Studies</td>
<td>Directed Studies in Landscape Planning and Sustainability</td>
<td>W5</td>
<td>5:30 p.m. - 6:30 p.m.</td>
<td>In Person Learning</td>
<td>Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.</td>
</tr>
<tr>
<td>LARC_V 201-12D</td>
<td>Directed Studies</td>
<td>Directed Studies in Landscape Planning and Sustainability</td>
<td>W6</td>
<td>6:30 p.m. - 7:30 p.m.</td>
<td>In Person Learning</td>
<td>Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.</td>
</tr>
<tr>
<td>LARC_V 201-12E</td>
<td>Directed Studies</td>
<td>Directed Studies in Landscape Planning and Sustainability</td>
<td>W7</td>
<td>7:30 p.m. - 8:30 p.m.</td>
<td>In Person Learning</td>
<td>Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.</td>
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<tr>
<td>LARC_V 201-12F</td>
<td>Directed Studies</td>
<td>Directed Studies in Landscape Planning and Sustainability</td>
<td>W8</td>
<td>8:30 p.m. - 9:30 p.m.</td>
<td>In Person Learning</td>
<td>Ideas, concepts, and frameworks for thinking about the nature of law and legal processes in both Canadian and global contexts.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Days</td>
<td>Time</td>
<td>Location</td>
<td>Notes</td>
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<tr>
<td>LSO_1 204-12A</td>
<td>Introduction to Law and Society</td>
<td>Wed</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>LSO_1 204-12B</td>
<td>Introduction to Law and Society</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>LSO_1 204-12C</td>
<td>Introduction to Law and Society</td>
<td>Fri</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>LSO_1 204-12D</td>
<td>Introduction to Law and Society</td>
<td>Fri</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>LSO_1 204-12E</td>
<td>Introduction to Law and Society</td>
<td>Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>LSO_1 204-12F</td>
<td>Introduction to Law and Society</td>
<td>Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>LSO_1 204-12G</td>
<td>Introduction to Law and Society</td>
<td>Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>LSO_1 308-301</td>
<td>Against the Law</td>
<td>Tue Thu</td>
<td>3:30 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>LSO_1 350-A_101</td>
<td>Topics in Law and Society</td>
<td>Thu</td>
<td>4:00 p.m. - 7:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>LSO_1 350-A_102</td>
<td>Topics in Law and Society</td>
<td>Thu</td>
<td>8:00 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>LAST_V 100-101</td>
<td>Introduction to Latin American Studies</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>An overview of the culture and society of Latin America from ancient to contemporary times and from Argentina to Mexico.</td>
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</tr>
<tr>
<td>LAST_V 100-102</td>
<td>Introduction to Latin American Studies</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>An overview of the culture and society of Latin America from ancient to contemporary times and from Argentina to Mexico.</td>
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<tr>
<td>LAST_V 204-L2A</td>
<td>Issues of Development in Modern Latin America</td>
<td>Wed</td>
<td>2:00 p.m. - 3:10 p.m.</td>
<td>In Person Learning</td>
<td>Theory of development in the Latin American context: current problems and development alternatives.</td>
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<tr>
<td>LAST_V 204-L2B</td>
<td>Issues of Development in Modern Latin America</td>
<td>Wed</td>
<td>2:00 p.m. - 3:10 p.m.</td>
<td>In Person Learning</td>
<td>Theory of development in the Latin American context: current problems and development alternatives.</td>
<td></td>
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<tr>
<td>LAST_V 204-L2C</td>
<td>Issues of Development in Modern Latin America</td>
<td>Wed</td>
<td>2:00 p.m. - 3:10 p.m.</td>
<td>In Person Learning</td>
<td>Theory of development in the Latin American context: current problems and development alternatives.</td>
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<tr>
<td>LAST_V 204-L2D</td>
<td>Issues of Development in Modern Latin America</td>
<td>Wed</td>
<td>2:00 p.m. - 3:10 p.m.</td>
<td>In Person Learning</td>
<td>Theory of development in the Latin American context: current problems and development alternatives.</td>
<td></td>
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<tr>
<td>LAST_V 204-L2E</td>
<td>Issues of Development in Modern Latin America</td>
<td>Wed</td>
<td>2:00 p.m. - 3:10 p.m.</td>
<td>In Person Learning</td>
<td>Theory of development in the Latin American context: current problems and development alternatives.</td>
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<tr>
<td>LAST_V 204-L2F</td>
<td>Issues of Development in Modern Latin America</td>
<td>Wed</td>
<td>2:00 p.m. - 3:10 p.m.</td>
<td>In Person Learning</td>
<td>Theory of development in the Latin American context: current problems and development alternatives.</td>
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<tr>
<td>LAST_V 204-L2G</td>
<td>Issues of Development in Modern Latin America</td>
<td>Wed</td>
<td>2:00 p.m. - 3:10 p.m.</td>
<td>In Person Learning</td>
<td>Theory of development in the Latin American context: current problems and development alternatives.</td>
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<tr>
<td>LAST_V 315-A_101</td>
<td>Topics in Latin American Studies</td>
<td>Tue Thu</td>
<td>4:00 p.m. - 7:00 p.m.</td>
<td>In Person Learning</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>
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<tr>
<td>LATN_V 101-001</td>
<td>Beginning Latin I</td>
<td>W1</td>
<td>Classical Latin, Part I.</td>
<td>In Person Learning</td>
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<tr>
<td>LATN_V 101-002</td>
<td>Beginning Latin I</td>
<td>W1</td>
<td>Classical Latin, Part I.</td>
<td>In Person Learning</td>
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<tr>
<td>LATN_V 101-003</td>
<td>Beginning Latin I</td>
<td>W1</td>
<td>Classical Latin, Part I.</td>
<td>In Person Learning</td>
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<tr>
<td>LATN_V 101-004</td>
<td>Beginning Latin I</td>
<td>W1</td>
<td>Classical Latin, Part I.</td>
<td>Online Learning</td>
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<tr>
<td>LATN_V 101-005</td>
<td>Beginning Latin I</td>
<td>W2</td>
<td>Classical Latin, Part I.</td>
<td>In Person Learning</td>
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<tr>
<td>LATN_V 101-006</td>
<td>Beginning Latin I</td>
<td>W1</td>
<td>Classical Latin, Part I.</td>
<td>In Person Learning</td>
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<tr>
<td>LATN_V 101-007</td>
<td>Beginning Latin I</td>
<td>W1</td>
<td>Classical Latin, Part I.</td>
<td>In Person Learning</td>
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</table>
LATN_V 302-001  LATN_V 102  001  Beginning Latin II  W2  Classical Latin, Part II. Prerequisite: LATN 101.  In Person Learning  Mon Wed Fri  9:00 a.m. - 10:00 a.m.

LATN_V 302-002  LATN_V 102  002  Beginning Latin II  W2  Classical Latin, Part II. Prerequisite: LATN 101.  In Person Learning  Mon Wed Fri  2:00 p.m. - 3:00 p.m.

LATN_V 302-003  LATN_V 102  003  Beginning Latin II  W2  Classical Latin, Part II. Prerequisite: LATN 101.  Online Learning  Arranged  Arranged

LATN_V 302-004  LATN_V 102  004  Beginning Latin II  W2  Classical Latin, Part II. Prerequisite: LATN 101.  In Person Learning  Arranged  Arranged

LATN_V 201-001  LATN_V 201  001  Intermediate Latin I  W1  Completion of the grammatical foundations of classical Latin, Part I. Prerequisite: LATN 102.  In Person Learning  Mon Wed Fri  9:00 a.m. - 10:00 a.m.

LATN_V 201-002  LATN_V 201  002  Intermediate Latin I  W1  Completion of the grammatical foundations of classical Latin, Part I. Prerequisite: LATN 102.  In Person Learning  Mon Wed Fri  2:00 p.m. - 3:00 p.m.

LATN_V 201-003  LATN_V 201  003  Intermediate Latin I  W1  Completion of the grammatical foundations of classical Latin, Part I. Prerequisite: LATN 102.  In Person Learning  Arranged  Arranged

LATN_V 350-001  LATN_V 350  001  Latin Literature of the Classical Period (Verse)  W1  Readings in Latin Verse. Prerequisite: One of LATN 301, LATN 302, LATN 303.  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 203, LATN 202.  In Person Learning  Mon Wed Fri  1:00 p.m. - 2:00 p.m.

LATN_V 401-A_001  LATN_V 401  A  A_001  Latin Prose  W1  Studies in history, custom 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 401-A_002  LATN_V 401  A  A_002  Latin Prose  W1  Studies in history, custom 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 402-B_001  LATN_V 402  B  B_001  Latin Verse  W2  Studies in narrative verse, comedy, satire, elegy and lyric poetry. A maximum of 12 credits can be granted for either one of or any combination of LATN 403, LATN 502. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon Wed Fri  9:00 a.m. - 10:30 a.m.

LATN_V 501-A_001  LATN_V 501  A  A_001  Latin Prose  W1  History, custom and/or philosophy. A maximum of 12 credits can be granted for either one of or any combination of LATN 401, LATN 501. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue Thu  12:30 p.m. - 2:00 p.m.

LATN_V 501-A_002  LATN_V 501  A  A_002  Latin Prose  W1  History, custom 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 503-B_001  LATN_V 503  B  B_001  Latin Verse  W2  Studies in history, oratory and/ or philosophy. A maximum of 12 credits can be granted for either one of or any combination of LATN 403, LATN 502. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon Wed Fri  9:00 a.m. - 10:00 a.m.

LATN_V 649-003  LATN_V 649  003  Doctoral Dissertation  W1-2  In Person Learning  Arranged  Arranged

LAW_V 200-001  LAW_V  200  001  Indigenous Settler Legal Relations  W1  Critical examination of the history and legacy of colonial legal orders in Canada. This course is compulsory for students who commence their Juris Doctor degree in September 2020 or later. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon  9:30 a.m. - 12:30 p.m.

LAW_V 200-002  LAW_V  200  002  Indigenous Settler Legal Relations  W1  Critical examination of the history and legacy of colonial legal orders in Canada. This course is compulsory for students who commence their Juris Doctor degree in September 2020 or later. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon  9:30 a.m. - 12:30 p.m.

LAW_V 200-003  LAW_V  200  003  Indigenous Settler Legal Relations  W1  Critical examination of the history and legacy of colonial legal orders in Canada. This course is compulsory for students who commence their Juris Doctor degree in September 2020 or later. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon  9:30 a.m. - 12:30 p.m.

LAW_V 200-004  LAW_V  200  004  Indigenous Settler Legal Relations  W1  Critical examination of the history and legacy of colonial legal orders in Canada. This course is compulsory for students who commence their Juris Doctor degree in September 2020 or later. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon  9:30 a.m. - 12:30 p.m.

LAW_V 202-001  LAW_V  202  001  Advocacy  W2  Introduction to principles of written and oral advocacy. Pass/Fail. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAW_V 221-001</td>
<td>001</td>
<td>Contracts</td>
<td>Introduction to public law and the Charter. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed Fri 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 221-002</td>
<td>002</td>
<td>Contracts</td>
<td>Introduction to public law and the Charter. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed Fri 11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>LAW_V 221-003</td>
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<td>Contracts</td>
<td>Introduction to public law and the Charter. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed Fri 11:00 a.m. - 12:30 p.m.</td>
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<td>LAW_V 221-004</td>
<td>004</td>
<td>Contracts</td>
<td>Introduction to public law and the Charter. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed Fri 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 222-001</td>
<td>001</td>
<td>Criminal Law and Procedure</td>
<td>An introduction to the structure, powers, duties of and relationships among the various institutions and actors that comprise the Canadian state, the principles of statutory interpretation, and the Canadian Charter of Rights and Freedoms. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 1:30 p.m. - 2:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 222-002</td>
<td>002</td>
<td>Criminal Law and Procedure</td>
<td>An introduction to the structure, powers, duties of and relationships among the various institutions and actors that comprise the Canadian state, the principles of statutory interpretation, and the Canadian Charter of Rights and Freedoms. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 1:30 p.m. - 2:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 222-003</td>
<td>003</td>
<td>Criminal Law and Procedure</td>
<td>An introduction to the structure, powers, duties of and relationships among the various institutions and actors that comprise the Canadian state, the principles of statutory interpretation, and the Canadian Charter of Rights and Freedoms. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 1:30 p.m. - 2:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 222-004</td>
<td>004</td>
<td>Criminal Law and Procedure</td>
<td>An introduction to the structure, powers, duties of and relationships among the various institutions and actors that comprise the Canadian state, the principles of statutory interpretation, and the Canadian Charter of Rights and Freedoms. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 1:30 p.m. - 2:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 222.006</td>
<td>001</td>
<td>Criminal Law and Procedure</td>
<td>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 W 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 223-001</td>
<td>001</td>
<td>Property Law</td>
<td>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 tenure-based systems for registering interests in land. This course is not eligible for Credit/D/Fail grading. In Person Learning Fri 9:30 a.m. - 10:30 a.m.</td>
</tr>
<tr>
<td>LAW_V 223-002</td>
<td>002</td>
<td>Property Law</td>
<td>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 tenure-based systems for registering interests in land. This course is not eligible for Credit/D/Fail grading. In Person Learning Fri 9:30 a.m. - 10:30 a.m.</td>
</tr>
<tr>
<td>LAW_V 223-003</td>
<td>003</td>
<td>Property Law</td>
<td>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 tenure-based systems for registering interests in land. This course is not eligible for Credit/D/Fail grading. In Person Learning Fri 9:30 a.m. - 10:30 a.m.</td>
</tr>
<tr>
<td>LAW_V 223-004</td>
<td>004</td>
<td>Property Law</td>
<td>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 tenure-based systems for registering interests in land. This course is not eligible for Credit/D/Fail grading. In Person Learning Fri 9:30 a.m. - 10:30 a.m.</td>
</tr>
<tr>
<td>LAW_V 241-001</td>
<td>001</td>
<td>Torts</td>
<td>A study of the bases of civil liability for intentionally and accidentally caused harms. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 241-002</td>
<td>002</td>
<td>Torts</td>
<td>A study of the bases of civil liability for intentionally and accidentally caused harms. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>LAW_V 241-003</td>
<td>003</td>
<td>Torts</td>
<td>A study of the bases of civil liability for intentionally and accidentally caused harms. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.</td>
</tr>
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<td>LAW_V 241-004</td>
<td>004</td>
<td>Torts</td>
<td>A study of the bases of civil liability for intentionally and accidentally caused harms. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 241.006</td>
<td>001</td>
<td>Torts</td>
<td>A study of the bases of civil liability for intentionally and accidentally caused harms. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>LAW_V 271-001</td>
<td>001</td>
<td>Introduction to Public Law and the Charter</td>
<td>An introduction to the structure, powers, duties of and relationships among the various institutions and actors that comprise the Canadian state, the principles of statutory interpretation, and the Canadian Charter of Rights and Freedoms. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed Fri 9:30 a.m. - 11:30 a.m.</td>
</tr>
<tr>
<td>LAW_V 271-002</td>
<td>002</td>
<td>Introduction to Public Law and the Charter</td>
<td>An introduction to the structure, powers, duties of and relationships among the various institutions and actors that comprise the Canadian state, the principles of statutory interpretation, and the Canadian Charter of Rights and Freedoms. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed Fri 9:30 a.m. - 11:30 a.m.</td>
</tr>
<tr>
<td>LAW_V 271-003</td>
<td>003</td>
<td>Introduction to Public Law and the Charter</td>
<td>An introduction to the structure, powers, duties of and relationships among the various institutions and actors that comprise the Canadian state, the principles of statutory interpretation, and the Canadian Charter of Rights and Freedoms. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed Fri 9:30 a.m. - 11:30 a.m.</td>
</tr>
<tr>
<td>LAW_V 271-004</td>
<td>004</td>
<td>Introduction to Public Law and the Charter</td>
<td>An introduction to the structure, powers, duties of and relationships among the various institutions and actors that comprise the Canadian state, the principles of statutory interpretation, and the Canadian Charter of Rights and Freedoms. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed Fri 9:30 a.m. - 11:30 a.m.</td>
</tr>
<tr>
<td>LAW_V 281-001</td>
<td>001</td>
<td>Legal Research and Writing</td>
<td>Introduction to legal research and writing skills and the use of legal databases. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue 2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>Course Code</td>
<td>Section</td>
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<td>LAW_V 281-002</td>
<td>281-02</td>
<td>In Person Learning</td>
<td>Legal Research and Writing</td>
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<tr>
<td>LAW_V 281-003</td>
<td>281-03</td>
<td>In Person Learning</td>
<td>Legal Research and Writing</td>
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<tr>
<td>LAW_V 281-004</td>
<td>281-04</td>
<td>In Person Learning</td>
<td>Legal Research and Writing</td>
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<tr>
<td>LAW_V 291-001</td>
<td>291-01</td>
<td>In Person Learning</td>
<td>Aboriginal and Treaty Rights</td>
</tr>
<tr>
<td>LAW_V 291-002</td>
<td>291-02</td>
<td>In Person Learning</td>
<td>Aboriginal and Treaty Rights</td>
</tr>
<tr>
<td>LAW_V 291-003</td>
<td>291-03</td>
<td>In Person Learning</td>
<td>Aboriginal and Treaty Rights</td>
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<tr>
<td>LAW_V 291-004</td>
<td>291-04</td>
<td>In Person Learning</td>
<td>Aboriginal and Treaty Rights</td>
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<tr>
<td>LAW_V 300-001</td>
<td>300-01</td>
<td>In Person Learning</td>
<td>Jurisprudence and Critical Perspectives</td>
</tr>
<tr>
<td>LAW_V 300-002</td>
<td>300-02</td>
<td>In Person Learning</td>
<td>Jurisprudence and Critical Perspectives</td>
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<tr>
<td>LAW_V 300-003</td>
<td>300-03</td>
<td>In Person Learning</td>
<td>Jurisprudence and Critical Perspectives</td>
</tr>
<tr>
<td>LAW_V 300-004</td>
<td>300-04</td>
<td>In Person Learning</td>
<td>Jurisprudence and Critical Perspectives</td>
</tr>
<tr>
<td>LAW_V 304-001</td>
<td>304-01</td>
<td>In Person Learning</td>
<td>Transnational Law</td>
</tr>
<tr>
<td>LAW_V 304-002</td>
<td>304-02</td>
<td>In Person Learning</td>
<td>Transnational Law</td>
</tr>
<tr>
<td>LAW_V 304-003</td>
<td>304-03</td>
<td>In Person Learning</td>
<td>Transnational Law</td>
</tr>
<tr>
<td>LAW_V 304-004</td>
<td>304-04</td>
<td>In Person Learning</td>
<td>Transnational Law</td>
</tr>
<tr>
<td>LAW_V 304-005</td>
<td>304-05</td>
<td>In Person Learning</td>
<td>Transnational Law</td>
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<tr>
<td>LAW_V 305-O_001</td>
<td>305-0D</td>
<td>In Person Learning</td>
<td>Law, Society and State</td>
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<tr>
<td>LAW_V 306-O_001</td>
<td>306-0D</td>
<td>In Person Learning</td>
<td>Corporate Social Responsibility and the Law</td>
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<tr>
<td>LAW_V 307-O_001</td>
<td>307-0D</td>
<td>In Person Learning</td>
<td>Women, Law and Social Change</td>
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<tr>
<td>LAW_V 308-O_001</td>
<td>308-0D</td>
<td>In Person Learning</td>
<td>Feminist Legal Theory</td>
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<tr>
<td>LAW_V 312-O_001</td>
<td>312-0D</td>
<td>In Person Learning</td>
<td>Topics in Philosophy of Law and Theoretical Perspectives</td>
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<tr>
<td>LAW_V 313-O_001</td>
<td>313-0D</td>
<td>In Person Learning</td>
<td>Legal History</td>
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<td>Course Code</td>
<td>Course Title</td>
<td>Description</td>
<td>Days</td>
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<tr>
<td>LAW 316-C_001</td>
<td>International Law</td>
<td>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.</td>
<td>Mon Wed</td>
</tr>
<tr>
<td>LAW 316-D_001</td>
<td>International Law</td>
<td>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.</td>
<td>W1</td>
</tr>
<tr>
<td>LAW 316-D_002</td>
<td>International Law</td>
<td>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.</td>
<td>W1</td>
</tr>
<tr>
<td>LAW 316-D_003</td>
<td>International Law</td>
<td>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.</td>
<td>W1</td>
</tr>
<tr>
<td>LAW 319-D_001</td>
<td>International Human Rights</td>
<td>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.</td>
<td>Mon</td>
</tr>
<tr>
<td>LAW 321-D_001</td>
<td>Law of Armed Conflict</td>
<td>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.</td>
<td>Mon</td>
</tr>
<tr>
<td>LAW 322-D_001</td>
<td>International Law Problems</td>
<td>Selected issues in international law. 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 322-C_001</td>
<td>International Environmental Law</td>
<td>Customary international law and treaties relating to the environment; institutional structures. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td>Fri</td>
</tr>
<tr>
<td>LAW 324-D_001</td>
<td>Topics in International Law and Transactions</td>
<td>A study of the private legal problems arising in cases in which the relevant facts cut across provincial or national boundaries. Recommended to be taken in third year. Credit will only be granted for one of LAW 324 or LAW 325. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW 325-D_001</td>
<td>Conflict of Laws</td>
<td>A study of the private legal problems arising in cases in which the relevant facts cut across provincial or national boundaries. Recommended to be taken in third year. Credit will only be granted for one of LAW 324 or LAW 325. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
</tr>
<tr>
<td>LAW 332-D_001</td>
<td>Maritime Law</td>
<td>Canadian maritime law and admiralty practice. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW 334-D_001</td>
<td>Introduction to Asian Legal Systems</td>
<td>Overview of the laws and legal system in the People's Republic of China with some introduction to Taiwan law; Legal interpretation of implications for Canada-China relations. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW 336-D_001</td>
<td>Chinese Law: Implications for Canada-China Relations</td>
<td>A study of the private legal problems arising in cases in which the relevant facts cut across provincial or national boundaries. Recommended to be taken in third year. Credit will only be granted for one of LAW 324 or LAW 325. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW 336-C_001</td>
<td>Japanese Law</td>
<td>Constitutional foundations and protection of human rights under Japanese law. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW 342-A_001</td>
<td>Topics in Comparative Law</td>
<td>A study of the private legal problems arising in cases in which the relevant facts cut across provincial or national boundaries. Recommended to be taken in third year. Credit will only be granted for one of LAW 324 or LAW 325. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>LAW 343-D_001</td>
<td>Topics in Public Law - Seminar</td>
<td>A study of the private legal problems arising in cases in which the relevant facts cut across provincial or national boundaries. Recommended to be taken in third year. Credit will only be granted for one of LAW 324 or LAW 325. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
</tr>
<tr>
<td>LAW 343-D_002</td>
<td>Topics in Public Law - Seminar</td>
<td>A study of the private legal problems arising in cases in which the relevant facts cut across provincial or national boundaries. Recommended to be taken in third year. Credit will only be granted for one of LAW 324 or LAW 325. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
</tr>
<tr>
<td>LAW 343-D_003</td>
<td>Topics in Public Law - Seminar</td>
<td>A study of the private legal problems arising in cases in which the relevant facts cut across provincial or national boundaries. Recommended to be taken in third year. Credit will only be granted for one of LAW 324 or LAW 325. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
</tr>
<tr>
<td>LAW 343-D_004</td>
<td>Topics in Public Law - Seminar</td>
<td>A study of the private legal problems arising in cases in which the relevant facts cut across provincial or national boundaries. Recommended to be taken in third year. Credit will only be granted for one of LAW 324 or LAW 325. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
</tr>
<tr>
<td>LAW 343-D_005</td>
<td>Topics in Public Law - Seminar</td>
<td>A study of the private legal problems arising in cases in which the relevant facts cut across provincial or national boundaries. Recommended to be taken in third year. Credit will only be granted for one of LAW 324 or LAW 325. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
</tr>
<tr>
<td>LAW 344-D_001</td>
<td>Innovation, Law, and Regulation</td>
<td>Examine and apply 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>In Person Learning</td>
</tr>
<tr>
<td>LAW 345-C_001</td>
<td>Topics in Public Law - Lecture</td>
<td>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 345-C_002</td>
<td>Topics in Public Law - Lecture</td>
<td>Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>
LAW V 347-B_001  LAW V 347 B  B_001  Fedederaion  W1  An examination of the principles of Canadian federalism. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon 10:30 a.m. - 12:30 p.m.

LAW V 347-B_002  LAW V 347 B  B_002  Fedederaion  W1  An examination of the principles of Canadian federalism. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Fri 1:30 p.m. - 3:30 p.m.

LAW V 347-B_003  LAW V 347 B  B_003  Fedederaion  W2  An examination of the principles of Canadian federalism. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon 10:30 a.m. - 12:30 p.m.

LAW V 347-B_004  LAW V 347 B  B_004  Fedederaion  W2  An examination of the principles of Canadian federalism. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Fri 1:30 p.m. - 3:30 p.m.

LAW V 347-B_006  LAW V 347 B  B_006  Fedederaion  W2  An examination of the principles of Canadian federalism. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon 8:30 a.m. - 10:30 a.m.

LAW V 348-D_001  LAW V 348 D  D_001  Comparative Constitutional Law  W2  Comparison of the constitutional history, government structure and powers, and protection of individual rights between the United States and Canada. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Fri 8:30 a.m. - 10:30 a.m.

LAW V 349-D_001  LAW V 349 D  D_001  Topics in Constitutional Law  W1  Not offered each year; consult Faculty. Credit will only be granted for one of LAW 349 or LAW 539. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Wed 2:00 p.m. - 5:00 p.m.

LAW V 351-A_001  LAW V 351 A  A_001  Topics in Human Rights  W1  Not offered each year; consult Faculty. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

LAW V 351-A_002  LAW V 351 A  A_002  Topics in Human Rights  W2  Not offered each year; consult Faculty. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue Thu 8:30 a.m. - 10:30 p.m.

LAW V 351-D_001  LAW V 351 D  D_001  Topics in Human Rights  W2  Not offered each year; consult Faculty. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged

LAW V 352-001  LAW V 352 001  Aboriginal Peoples and Canadian Law  W1  Survey of the history and present status of the legal relationships between Canada’s Aboriginal peoples and the state. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue Thu 2:00 p.m. - 3:30 p.m.

LAW V 353-D_001  LAW V 353 D  D_001  Aboriginal and Treaty Rights  W1  Rights of Aboriginal peoples stemming from their aboriginal status and from treaties. Not offered each year; consult Faculty. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Wed 2:00 p.m. - 5:00 p.m.

LAW V 356-001  LAW V 356 001  First Nations and Economic Development  W2  Legal issues affecting land use and economic activity involving First Nations’ resources. Not offered each year; consult Faculty. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon 2:00 p.m. - 5:00 p.m.

LAW V 357-C_001  LAW V 357 C  C_001  Topics in First Nations Law - Lecture  W1  Not offered each year; consult Faculty. Credit will only be granted for one of LAW 357 or LAW 579. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Wed 9:30 a.m. - 10:30 p.m.

LAW V 358-D_001  LAW V 358 D  D_001  Topics in First Nations Law - Seminar  W1  Not offered each year; consult Faculty. Credit will only be granted for one of LAW 358 or LAW 558. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue 9:30 a.m. - 12:30 p.m.

LAW V 358-D_002  LAW V 358 D  D_002  Topics in First Nations Law - Seminar  W2  Not offered each year; consult Faculty. Credit will only be granted for one of LAW 358 or LAW 558. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue 9:30 a.m. - 12:30 p.m.

LAW V 358-D_003  LAW V 358 D  D_003  Topics in First Nations Law - Seminar  W1  Not offered each year; consult Faculty. Credit will only be granted for one of LAW 358 or LAW 558. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon 9:30 a.m. - 12:30 p.m.

LAW V 359-C_001  LAW V 359 C  C_001  Family Law  W1  The law relating to family relationships, including the law of marriage, divorce, maintenance, custody, matrimonial property, and related matters. Credit will only be granted for one of LAW 359 or LAW 559. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon Wed 2:00 p.m. - 4:00 p.m.

LAW V 359-C_002  LAW V 359 C  C_002  Family Law  W2  The law relating to family relationships, including the law of marriage, divorce, maintenance, custody, matrimonial property, and related matters. Credit will only be granted for one of LAW 359 or LAW 559. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon Wed 10:30 a.m. - 12:30 p.m.

LAW V 360-001  LAW V 360 001  Children and the Law  W2  The civil and criminal law affecting juveniles; custodial guardianship and adoption. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Wed 9:30 a.m. - 12:30 p.m.

LAW V 362-D_001  LAW V 362 D  D_001  Racism and Law  W1  Legal issues relating to race and racism, including related issues of gender, culture or identity. Not offered each year; consult Faculty. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon 2:00 p.m. - 5:00 p.m.

LAW V 367-001  LAW V 367 001  Reproduction and Law  W1  Legal issues relating to human reproduction. Not offered each year; consult Faculty. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon Wed 8:00 a.m. - 10:30 a.m.

LAW V 368-001  LAW V 368 001  Sexuality and Law  W2  Legal issues relating to sexual activity, orientation and identification. Not offered each year; consult Faculty. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Wed 2:00 p.m. - 5:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Schedule</th>
<th>Location</th>
<th>Grading</th>
<th>Notes</th>
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</thead>
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<tr>
<td>LAW 370-D_001</td>
<td>Topics in Social Justice</td>
<td>3</td>
<td>8:30 a.m. - 10:30 a.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
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<tr>
<td>LAW 372-C_003</td>
<td>Administration Law</td>
<td>3</td>
<td>10:30 a.m. - 12:30 p.m.</td>
<td>Fri</td>
<td>Wed Fri</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<td>LAW 372-C_006</td>
<td>Administration Law</td>
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<td>8:30 a.m. - 11:30 a.m.</td>
<td>W2</td>
<td>Tue Thu</td>
<td>10:15 a.m. - 12:30 p.m.</td>
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<td>2:00 p.m. - 4:00 p.m.</td>
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<td>W2</td>
<td>Tue Thu</td>
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<td>Municipal Law</td>
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<td>9:00 a.m. - 5:00 p.m.</td>
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<td>E</td>
<td>9:00 a.m. - 10:30 a.m.</td>
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<td>LAW 377-G_001</td>
<td>Immigration Law</td>
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<td>9:00 a.m. - 11:00 a.m.</td>
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<td>LAW 380-C_005</td>
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<td>9:00 a.m. - 11:30 a.m.</td>
</tr>
</tbody>
</table>
Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.

Environmental Law
394
In Person Learning

W1

Structured reflective exercises on the LAW 379 Externship experience.

In Person Learning
Fri
8:00 a.m. - 12:00 p.m.

W2

Legal and policy issues relating to the health care system, including legal aspects of individual and public health decision-making. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Fri
5:00 p.m. - 8:00 p.m.

Sustainable Development Law
386 O
D_001

W2

The linkage, interactions, and tensions between the legal regulation of the environment and competing social and economic priorities. Credit will only be granted for one of LAW 396 or LAW 586. This course is not eligible for Credit/D/Fail grading.

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

Environmental Law
387 B
B_001

W2

A foundation course dealing with the regulatory and policy framework for the protection of the environment in Canada, such as pollution control and biodiversity conservation. Credit will only be granted for one of LAW 387 or LAW 587. This course is not eligible for Credit/D/Fail grading.

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

Environmental Law
387 C
C_001

W2

A foundation course dealing with the regulatory and policy framework for the protection of the environment in Canada, such as pollution control and biodiversity conservation. Credit will only be granted for one of LAW 387 or LAW 587. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Arranged
Arranged

Topics in Environmental Law
391 O
D_001

W1

Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Fri
1:30 p.m. - 4:10 p.m.

Natural Resources Law
392 D_001

W2

A foundation course dealing with legal problems common to the management of natural resources such as fisheries, mines and minerals, petroleum, forests, and water resources. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Mon
5:00 p.m. - 8:00 p.m.

Green Rights and Warrior Lawyers
393 D_001

W2

Explore the human right to a healthy environment and the rights of nature through the stories of environmental lawyers and defenders worldwide who struggle for environmental justice through law. No pre- or co-requisites. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Wed
9:30 a.m. - 12:30 p.m.

Mining Law
394 D_001

W1

Acquisition of mineral interests; development, financing and organization of mining companies; regulation of exploitation industry interests; management taxation. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Mon
5:00 p.m. - 8:00 p.m.

Forest Law
395 D_001

W1

Acquisition of timber interests; development, financing and organization of timber companies; regulation of exploitation industry interests; management taxation. Not offered each year, consult Faculty. Credit will only be granted for one of LAW 385 or LAW 585. This course is not eligible for Credit/D/Fail grading.

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

Advanced Criminal Procedure
400 D_001

W2

Selected topics relating to procedural law and practice in criminal matters. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Tue Thu
2:00 p.m. - 3:10 p.m.

Retrial Policy
401 D_001

W2

Selected legal policy issues relating to punishment for crime. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Tue
9:30 a.m. - 12:30 p.m.

The Law of Sexual Offences
402 D_001

W2

Criminal law relating to sexual offences, including non-consent, evidentiary and procedural rules, and sentencing. History of sexual offences laws and law reform movements. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Tue
9:30 a.m. - 12:30 p.m.

Principles of Sentencing
403 D_001

W1

This course is designed to teach students the law and policy involved in sentencing persons convicted of crimes. Students will develop an in-depth understanding of statutory and case law rules regarding sentencing and will be required to apply those rules to actual sentencing scenarios. This course is not eligible for Credit/D/Fail grading.

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

The Law of Homicide
404 D_001

W2

Available in online distance education format only. Elements of sentencing for murder, manslaughter and infanticide; defenses to homicide; partial to homicide; and corporate homicide. This course is not eligible for Credit/D/Fail grading.

Online Learning
Mon
9:30 a.m. - 12:30 p.m.

Topics in Criminal Law
405 C
C_001

W2

Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Thu
5:00 p.m. - 8:00 p.m.

Topics in Criminal Justice
406 D
D_001

W2

Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.

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

Topics in Criminal Justice
406 D
D_002

W1

Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Tue
5:00 p.m. - 8:00 p.m.

Topics in Criminal Justice
406 D
D_003

W1

Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Arranged
Arranged

Taxation
407 C
C_001

W1

A survey of the law and practice of income and capital gains taxes. Credit will be granted for only one of LAW 407 or LAW 586. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Tue Thu
10:00 a.m. - 12:30 p.m.

Taxation
407 C
C_002

W2

A survey of the law and practice of income and capital gains taxes. Credit will be granted for only one of LAW 407 or LAW 586. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Tue Thu
10:30 a.m. - 12:30 p.m.

Taxation of Corporations and Shareholders
408 D_001

W1

Survey of statutory provisions and judicial decisions governing the taxation of corporations and shareholders. Credit will be granted for only one of LAW 408 or LAW 582. This course is not eligible for Credit/D/Fail grading.

In Person Learning
Fri
3:30 p.m. - 5:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Time</th>
<th>Instructor Type</th>
<th>Description</th>
<th>Notes</th>
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<tr>
<td>LAW 409-001</td>
<td>Law 409</td>
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<td>Taxation of Partnerships</td>
<td>W1</td>
<td></td>
<td>Survey of statutory and judicial rules governing the taxation of income earned through partnerships. Credit will be granted for only one of LAW 409 or LAW 563. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>LAW 410-001</td>
<td>Law 410</td>
<td>0.01</td>
<td>International Taxation</td>
<td>W2</td>
<td></td>
<td>The tax aspects of international transactions. Not offered each year; consult Faculty. Credit will be granted for only one of LAW 411 or LAW 564. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<td>LAW 411-D-001</td>
<td>Law 411</td>
<td>D</td>
<td>D</td>
<td>0.01</td>
<td>Tax Policy</td>
<td>The policies underlying the creation and implementation of tax laws. Not offered each year; consult Faculty. Credit will be granted for only one of LAW 411 or LAW 564. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<td>LAW 412-001</td>
<td>Law 412</td>
<td>0.01</td>
<td>Taxation of Trusts and Estates</td>
<td>W2</td>
<td></td>
<td>Not offered each year; consult Faculty. Credit will be granted for only one of LAW 412 or LAW 564. This course is not eligible for Credit/D/Fail grading.</td>
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<td>LAW 413-D-001</td>
<td>Law 413</td>
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<td>Tax Administration and Dispute Resolution</td>
<td>W1</td>
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<td>LAW 414-001</td>
<td>Law 414</td>
<td>0.01</td>
<td>Taxation of Corporate Reorganizations</td>
<td>W2</td>
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<td>Survey of statutory provisions and judicial decisions governing the taxation of corporate reorganizations. Credit will be granted for only one of LAW 414 or LAW 560. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<td>LAW 416-001</td>
<td>Law 416</td>
<td>0.01</td>
<td>Labour Law</td>
<td>W1</td>
<td></td>
<td>Union-management relations; the collective bargaining process; the collective agreement, arbitration and conciliation procedure. The relationship between the union and its membership. This course is not eligible for Credit/D/Fail grading.</td>
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<td>Law 416</td>
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<td>Labour Law</td>
<td>W1</td>
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<td>Union-management relations; the collective bargaining process; the collective agreement, arbitration and conciliation procedure. The relationship between the union and its membership. This course is not eligible for Credit/D/Fail grading.</td>
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<td>LAW 419-C-001</td>
<td>Law 419</td>
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<td>Individual Employment Law</td>
<td>W2</td>
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<td>LAW 420-A-001</td>
<td>Law 420</td>
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<td>Topics in Intellectual Property - Seminar</td>
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<td>LAW 420-D-001</td>
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<td>Topics in Intellectual Property - Seminar</td>
<td>W1</td>
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<td>LAW 422-001</td>
<td>Law 422</td>
<td>0.01</td>
<td>Intellectual Property</td>
<td>W1</td>
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<td>Copyright, patents, trademarks, industrial design, the protection of computer software, and tests such as passing-off and breach of confidence. Credit will only be granted for one of LAW 422 or LAW 570. This course is not eligible for Credit/D/Fail grading.</td>
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<td>Intellectual Property</td>
<td>W2</td>
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<td>Copyright, patents, trademarks, industrial design, the protection of computer software, and tests such as passing-off and breach of confidence. Credit will only be granted for one of LAW 422 or LAW 570. This course is not eligible for Credit/D/Fail grading.</td>
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<td>Communications Law</td>
<td>W1</td>
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<td>Selected legal issues relating to the communications industry and their regulation. Not offered each year; consult Faculty. Credit will only be granted for one of LAW 431 or LAW 531. This course is not eligible for Credit/D/Fail grading.</td>
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<td>LAW 427-A-001</td>
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<td>LAW 428-A-001</td>
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<td>LAW 429-D-001</td>
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<td>Rise Women's Legal Centre - Clinic</td>
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<td>Advanced Legal Research</td>
<td>W2</td>
<td>Tue Thu</td>
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<td>Advanced Legal Research</td>
<td>W2</td>
<td>Tue Thu</td>
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<td>Advanced Legal Research</td>
<td>W1</td>
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<td>8:30 p.m.</td>
<td>W2</td>
<td>LAW 431</td>
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<td>LAW 430-004</td>
<td>Advanced Legal Research</td>
<td>W1</td>
<td>Wed Fri</td>
<td>5:30 p.m.</td>
<td>8:30 p.m.</td>
<td>W2</td>
<td>LAW 431</td>
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<tr>
<td>LAW 431-D_001</td>
<td>Rise Womens Legal Centre - Seminar: Social Justice Issues for Families in the Legal System</td>
<td>W1</td>
<td>Tue Thu</td>
<td>9:00 a.m.</td>
<td>10:30 a.m.</td>
<td>W2</td>
<td>LAW 431</td>
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<tr>
<td>LAW 431-D_002</td>
<td>Rise Womens Legal Centre - Seminar: Social Justice Issues for Families in the Legal System</td>
<td>W2</td>
<td>Tue Thu</td>
<td>9:00 a.m.</td>
<td>10:30 a.m.</td>
<td>W2</td>
<td>LAW 431</td>
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<td>LAW 432-D_001</td>
<td>Topics in Private Law</td>
<td>W2</td>
<td>Tue Thu</td>
<td>1:00 p.m.</td>
<td>4:00 p.m.</td>
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<td>LAW 429</td>
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<tr>
<td>LAW 432-D_002</td>
<td>Topics in Private Law</td>
<td>W2</td>
<td>Tue Thu</td>
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<td>Topics in Private Law</td>
<td>W2</td>
<td>Tue Thu</td>
<td>1:00 p.m.</td>
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<tr>
<td>LAW 432-C_001</td>
<td>Topics in Tort Law - Lecture</td>
<td>W2</td>
<td>Tue Thu</td>
<td>5:00 p.m.</td>
<td>8:00 p.m.</td>
<td>W2</td>
<td>LAW 431</td>
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<tr>
<td>LAW 434-001</td>
<td>Medical Negligence Law</td>
<td>W2</td>
<td>Wed Fri</td>
<td>5:30 p.m.</td>
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<td>LAW 431</td>
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<td>LAW 435-D_001</td>
<td>Topics in Tort Law - Seminar</td>
<td>W2</td>
<td>Tue Thu</td>
<td>5:30 p.m.</td>
<td>8:30 p.m.</td>
<td>W2</td>
<td>LAW 431</td>
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<tr>
<td>LAW 436-001</td>
<td>Restitution</td>
<td>W1</td>
<td>Wed Fri</td>
<td>5:30 p.m.</td>
<td>8:30 p.m.</td>
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<td>LAW 431</td>
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<tr>
<td>LAW 437-001</td>
<td>Commercial Transactions</td>
<td>W2</td>
<td>Tue Thu</td>
<td>9:00 a.m.</td>
<td>10:30 a.m.</td>
<td>W2</td>
<td>LAW 431</td>
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<tr>
<td>LAW 438-001</td>
<td>Secured Transactions</td>
<td>W2</td>
<td>Tue Thu</td>
<td>9:00 a.m.</td>
<td>10:30 a.m.</td>
<td>W2</td>
<td>LAW 431</td>
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<td>LAW 438-002</td>
<td>Secured Transactions</td>
<td>W1</td>
<td>Wed Fri</td>
<td>9:00 a.m.</td>
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<td>W1</td>
<td>LAW 431</td>
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<td>LAW 439-001</td>
<td>Construction Law</td>
<td>W1</td>
<td>Tue Thu</td>
<td>8:30 a.m.</td>
<td>8:30 p.m.</td>
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<td>LAW 440</td>
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<tr>
<td>LAW 440-001</td>
<td>Insurance Law</td>
<td>W1</td>
<td>Mon</td>
<td>5:00 p.m.</td>
<td>8:00 p.m.</td>
<td>W1</td>
<td>LAW 440</td>
</tr>
<tr>
<td>LAW 442-001</td>
<td>Condominium Law</td>
<td>W2</td>
<td>Tue Thu</td>
<td>9:00 a.m.</td>
<td>10:30 a.m.</td>
<td>W2</td>
<td>LAW 440</td>
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<tr>
<td>LAW 442-002</td>
<td>Condominium Law</td>
<td>W2</td>
<td>Tue Thu</td>
<td>9:00 a.m.</td>
<td>10:30 a.m.</td>
<td>W2</td>
<td>LAW 440</td>
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<tr>
<td>LAW 443-001</td>
<td>Creditors' Remedies</td>
<td>W2</td>
<td>Tue Thu</td>
<td>9:00 a.m.</td>
<td>10:30 a.m.</td>
<td>W2</td>
<td>LAW 440</td>
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<tr>
<td>LAW 444-001</td>
<td>Insolvency Law</td>
<td>W1</td>
<td>Wed Fri</td>
<td>9:00 a.m.</td>
<td>10:30 a.m.</td>
<td>W1</td>
<td>LAW 440</td>
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<td>LAW 446-001</td>
<td>Corporate Solicitors' Workshop</td>
<td>W2</td>
<td>Tue Thu</td>
<td>5:30 p.m.</td>
<td>8:30 p.m.</td>
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<tr>
<td>LAW 447 A_001</td>
<td>Topics in Commercial Law</td>
<td>A_001</td>
<td>Mon Wed</td>
<td>W1</td>
<td>Not offered each year, consult Faculty. Credit will only be granted for one of LAW 447 or LAW 547. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 447 C_001</td>
<td>Topics in Commercial Law</td>
<td>C_001</td>
<td>Tue Thu</td>
<td>W1</td>
<td>Not offered each year, consult Faculty. Credit will only be granted for one of LAW 447 or LAW 547. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 447 C_002</td>
<td>Topics in Commercial Law</td>
<td>C_002</td>
<td>Mon Wed</td>
<td>W2</td>
<td>Not offered each year, consult Faculty. Credit will only be granted for one of LAW 447 or LAW 547. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 446 D_001</td>
<td>Sports Law</td>
<td>D_001</td>
<td>Mon Wed</td>
<td>W1</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 446 or LAW 546. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 451-001</td>
<td>Trusts</td>
<td>001</td>
<td>Mon Wed</td>
<td>W1</td>
<td>History and nature of trusts; express, resulting, implied and constructive trusts; charitable and purpose trusts; administration of trusts; breach of trust. Credit will be only be granted for one of LAW 451 or LAW 551. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 451-002</td>
<td>Trusts</td>
<td>002</td>
<td>Mon Wed</td>
<td>W1</td>
<td>History and nature of trusts; express, resulting, implied and constructive trusts; charitable and purpose trusts; administration of trusts; breach of trust. Credit will be only be granted for one of LAW 451 or LAW 551. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 462-001</td>
<td>Succession</td>
<td>001</td>
<td>Mon Wed</td>
<td>W2</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 462 or LAW 574. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 465-001</td>
<td>Real Estate Transactions</td>
<td>001</td>
<td>Mon Wed</td>
<td>W1</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>
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<tr>
<td>LAW 465-002</td>
<td>Real Estate Transactions</td>
<td>002</td>
<td>Mon Wed</td>
<td>W2</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>
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<tr>
<td>LAW 456-C_001</td>
<td>Topics in Corporate Law - Lecture</td>
<td>C_001</td>
<td>Mon Wed</td>
<td>W2</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 be granted for only one of LAW 456 or LAW 556. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 459-C_001</td>
<td>Business Organizations</td>
<td>C_001</td>
<td>Mon Wed</td>
<td>W1</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 be granted for only one of LAW 459 or LAW 559. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 458-C_002</td>
<td>Business Organizations</td>
<td>C_002</td>
<td>Mon Wed</td>
<td>W1</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 be granted for only one of LAW 458 or LAW 558. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 459-C_003</td>
<td>Business Organizations</td>
<td>C_003</td>
<td>Mon Wed</td>
<td>W1</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 be granted for only one of LAW 459 or LAW 559. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 459-C_004</td>
<td>Business Organizations</td>
<td>C_004</td>
<td>Mon Wed</td>
<td>W1</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 be granted for only one of LAW 459 or LAW 559. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 459-C_005</td>
<td>Business Organizations</td>
<td>C_005</td>
<td>Mon Wed</td>
<td>W1</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 be granted for only one of LAW 459 or LAW 559. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 460-001</td>
<td>Advanced Corporate Law</td>
<td>001</td>
<td>Mon Wed</td>
<td>W2</td>
<td>Selected topics such as the nature of shares, equity financing, corporate structure and reorganization, and shareholder squanderous. This course is not eligible for Credit/D/Fail grading.</td>
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</tr>
<tr>
<td>LAW 461-001</td>
<td>Corporate Transactions</td>
<td>001</td>
<td>Mon Wed</td>
<td>W2</td>
<td>Legal aspects of selected transactions relating to public corporations and corporate governments. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 462-001</td>
<td>Close Corporations</td>
<td>001</td>
<td>Mon Wed</td>
<td>W2</td>
<td>The corporation, taxation, accounting, insurance and estate planning aspects of the close corporation. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 463-001</td>
<td>Securities Regulation</td>
<td>001</td>
<td>Mon Wed</td>
<td>W1</td>
<td>The law relating to the distribution of securities. Continuous and timely disclosure requirements and civil liability. Credit will only be granted for one of LAW 463 or LAW 576. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 463-002</td>
<td>Securities Regulation</td>
<td>002</td>
<td>Mon Wed</td>
<td>W2</td>
<td>The law relating to the distribution of securities. Continuous and timely disclosure requirements and civil liability. Credit will only be granted for one of LAW 463 or LAW 576. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>LAW 464-001</td>
<td>Competition Policy</td>
<td>001</td>
<td>Mon Wed</td>
<td>W2</td>
<td>The law and policy relating to the regulation of competition in Canada and other jurisdictions. Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.</td>
<td></td>
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<tr>
<td>LAW 466-001</td>
<td>Business Law Capstone</td>
<td>001</td>
<td>Mon Wed</td>
<td>W2</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>
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<tr>
<td>LAW 467-D_001</td>
<td>Topics in Corporate Law - Seminar</td>
<td>D_001</td>
<td>Mon Wed</td>
<td>W2</td>
<td>Not offered each year, consult Faculty. Credit will only be granted for one of LAW 467 or LAW 574. This course is not eligible for Credit/D/Fail grading.</td>
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</table>
In Person Learning

Trial Advocacy

Ethics and Professionalism

Mon

Preventing Wrongful Convictions

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

Wed

Competitive Trial Advocacy Credit

4:00 p.m. - 6:00 p.m.

Thu

Civil Procedure

In Person Learning

Ethics and Professionalism

5:30 p.m. - 8:30 p.m.

In Person Learning

In Person Learning

Ethics and Professionalism

6:00 p.m. - 9:00 p.m.

In Person Learning

Ethics and Professionalism

5:30 p.m. - 7:30 p.m.

In Person Learning

In Person Learning

Ethics and Professionalism

6:00 p.m. - 9:00 p.m.

In Person Learning

Civil Procedure

5:30 p.m. - 7:30 p.m.

In Person Learning

5:30 p.m. - 8:30 p.m.

In Person Learning

5:30 p.m. - 7:30 p.m.

In Person Learning

5:30 p.m. - 7:30 p.m.

In Person Learning

5:30 p.m. - 8:30 p.m.

In Person Learning

5:30 p.m. - 7:30 p.m.

In Person Learning

5:30 p.m. - 8:30 p.m.

In Person Learning

5:30 p.m. - 7:30 p.m.

In Person Learning

5:30 p.m. - 8:30 p.m.

In Person Learning

5:30 p.m. - 7:30 p.m.

In Person Learning

5:30 p.m. - 8:30 p.m.

In Person Learning

5:30 p.m. - 7:30 p.m.

In Person Learning

5:30 p.m. - 8:30 p.m.

In Person Learning

5:30 p.m. - 7:30 p.m.

In Person Learning

5:30 p.m. - 8:30 p.m.

In Person Learning

5:30 p.m. - 7:30 p.m.

In Person Learning

5:30 p.m. - 8:30 p.m.

In Person Learning

5:30 p.m. - 7:30 p.m.

In Person Learning

5:30 p.m. - 8:30 p.m.

In Person Learning

5:30 p.m. - 7:30 p.m.

In Person Learning

5:30 p.m. - 8:30 p.m.

In Person Learning

5:30 p.m. - 7:30 p.m.

In Person Learning

5:30 p.m. - 8:30 p.m.

In Person Learning

5:30 p.m. - 7:30 p.m.

In Person Learning
Negotiation and bargaining. Formulation of general principles governing the negotiation process; negotiation in legal practice; alternative means of dispute resolution. This course is not eligible for Credit/D/Fail grading.

W2

Theoretical premises underlying the dispute-resolving process; arbitration, other non-judicial means of resolving legal disputes, and their relationship to litigation. Not offered each year, consult Faculty.

W1

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

LAW V 486-B_001

LAW V 483-C_001

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

LAW V 482-0_001

LAW V 483-C_003

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

LAW V 486-001

LAW V 477

LAW V 486-003

Directed Research

W1

Directed Research

W1

Directed Research

W1

Directed Research

W1

Directed Research

W2

Directed Research

W2

Directed Research

W2

Directed Research

W2

Directed Research

W2

Directed Research

W2

Directed Research

W2

Directed Research

W1

Directed Research

W2

Directed Research

W2

Directed Research

W2

Directed Research

W2

Directed Research

W2
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<th>Course Title</th>
<th>Credits</th>
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<th>Days</th>
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<td>LAW 493-C</td>
<td>Directed Research</td>
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<td>1</td>
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<td>LAW 493-D</td>
<td>Directed Research</td>
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<tr>
<td>LAW 493-E</td>
<td>Directed Research</td>
<td>4</td>
<td>1</td>
<td>W1</td>
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<tr>
<td>LAW 493-F</td>
<td>Directed Research</td>
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<td>W1</td>
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<td>LAW 493-G</td>
<td>Directed Research</td>
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<td>W1</td>
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<td>LAW 493-H</td>
<td>Directed Research</td>
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<td>LAW 493-I</td>
<td>Directed Research</td>
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<td>W1</td>
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<td>LAW 493-J</td>
<td>Directed Research</td>
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<td>W1</td>
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This course is not eligible for Credit/D/Fail grading.

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.
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<th>Section</th>
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<th>Lecture Type</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
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<tr>
<td>LAW 509</td>
<td>A</td>
<td>Online Learning</td>
<td>Arranged</td>
<td>Mon Wed</td>
<td>10:30 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<td>LAW 509</td>
<td>B</td>
<td>Online Learning</td>
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<td>10:30 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<td>LAW 509</td>
<td>C</td>
<td>In Person Learning</td>
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<td>Mon Wed</td>
<td>10:30 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>LAW 509</td>
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<td>Mon Wed</td>
<td>10:30 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>LAW 509</td>
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<td>Online Learning</td>
<td>Arranged</td>
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<td>In Person Learning</td>
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<td>LAW 509</td>
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<td>Online Learning</td>
<td>Arranged</td>
<td>Mon Wed</td>
<td>10:30 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<td>LAW 509</td>
<td>G</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>LAW 509</td>
<td>H</td>
<td>Online Learning</td>
<td>Arranged</td>
<td>Mon Wed</td>
<td>10:30 a.m. - 12:30 p.m.</td>
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This course is not eligible for Credit/D/Fail grading.

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<tr>
<td>LAW 526-00C</td>
<td>Administrative Law</td>
<td>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 327 or LAW 529. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
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<tr>
<td>LAW 511-D_001</td>
<td>International Criminal Law</td>
<td>Analysis of topics such as jurisdiction, immunity from prosecution, mutual assistance in penal matters, recognition and enforcement of foreign penal laws, and international police cooperation; examination of selected offences such as war crimes, crimes against humanity, genocide, terrorism, illicit drug trafficking, and torture. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td></td>
<td>In Person</td>
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<tr>
<td>LAW 515-99A</td>
<td>Canadian Private Law: Contractual Obligations and Remedies</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 338 or LAW 438. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td></td>
<td>In Person</td>
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<tr>
<td>LAW 515-99C</td>
<td>Canadian Private Law: Contractual Obligations and Remedies</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 338 or LAW 438. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
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<td>In Person</td>
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<tr>
<td>LAW 519-001</td>
<td>Individual Employment Law</td>
<td>Legal aspects of employment relationships other than those arising by collective bargaining. Not offered each year, consult Faculty. Credit will only be granted for one of LAW 520 or LAW 423. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td></td>
<td>In Person</td>
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<td>E:00 p.m. - 9:00 p.m.</td>
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<tr>
<td>LAW 523-C_001</td>
<td>Topics in Intellectual Property - Lecture</td>
<td>Analysis of topics such as jurisdiction, immunity from prosecution, mutual assistance in penal matters, recognition and enforcement of foreign penal laws, and international police cooperation; examination of selected offences such as war crimes, crimes against humanity, genocide, terrorism, illicit drug trafficking, and torture. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td></td>
<td>In Person</td>
<td></td>
<td>Tue</td>
</tr>
<tr>
<td>LAW 523-C_002</td>
<td>Topics in Intellectual Property - Lecture</td>
<td>Analysis of topics such as jurisdiction, immunity from prosecution, mutual assistance in penal matters, recognition and enforcement of foreign penal laws, and international police cooperation; examination of selected offences such as war crimes, crimes against humanity, genocide, terrorism, illicit drug trafficking, and torture. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td></td>
<td>In Person</td>
<td></td>
<td>Tue</td>
</tr>
<tr>
<td>LAW 524-D_001</td>
<td>Methodologies in Law and Policy</td>
<td>The legal aspects of employment relationships other than those arising by collective bargaining. Not offered each year, consult Faculty. Credit will only be granted for one of LAW 520 or LAW 423. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
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<td>In Person</td>
<td>Arranged</td>
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<tr>
<td>LAW 525-A_001</td>
<td>Canadian Criminal Law and Procedure</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 540 or LAW 440. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
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<tr>
<td>LAW 525-A_99A</td>
<td>Canadian Criminal Law and Procedure</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 540 or LAW 440. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
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<td>In Person</td>
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<tr>
<td>LAW 525-A_99C</td>
<td>Canadian Criminal Law and Procedure</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 540 or LAW 440. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
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<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LAW 530-001</td>
<td>Advanced Legal Research and Writing</td>
<td>Topics in taxation - seminar. 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 540 or LAW 440. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td></td>
<td>In Person</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LAW 537-001</td>
<td>Commercial Transactions</td>
<td>The law of sale of goods, bills of exchange, promissory notes, and cheques. Credit will only be granted for one of LAW 337 or LAW 437. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td></td>
<td>In Person</td>
<td></td>
<td>Tue</td>
</tr>
<tr>
<td>LAW 538-001</td>
<td>Secured Transactions</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 338 or LAW 438. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td></td>
<td>In Person</td>
<td></td>
<td>Tue</td>
</tr>
<tr>
<td>LAW 538-002</td>
<td>Secured Transactions</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 338 or LAW 438. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td></td>
<td>In Person</td>
<td></td>
<td>Tue</td>
</tr>
<tr>
<td>LAW 540-001</td>
<td>Insurance Law</td>
<td>The law of insurance 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 540 or LAW 440. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td></td>
<td>In Person</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LAW 545-C_001</td>
<td>Topics in Taxation - Seminar</td>
<td>Analysis of topics such as jurisdiction, immunity from prosecution, mutual assistance in penal matters, recognition and enforcement of foreign penal laws, and international police cooperation; examination of selected offences such as war crimes, crimes against humanity, genocide, terrorism, illicit drug trafficking, and torture. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td></td>
<td>In Person</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LAW 546-001</td>
<td>Sports Law</td>
<td>Topics in Intellectual Property - Lecture Analysis of topics such as jurisdiction, immunity from prosecution, mutual assistance in penal matters, recognition and enforcement of foreign penal laws, and international police cooperation; examination of selected offences such as war crimes, crimes against humanity, genocide, terrorism, illicit drug trafficking, and torture. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td></td>
<td>In Person</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LAW 549-001</td>
<td>Master's Thesis</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 540 or LAW 440. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1-2</td>
<td></td>
<td>In Person</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LAW 549-002</td>
<td>Master's Thesis</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 540 or LAW 440. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1</td>
<td></td>
<td>In Person</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LAW 549-003</td>
<td>Master's Thesis</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 540 or LAW 440. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td></td>
<td>In Person</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>LAW 550-001</td>
<td>Taxation of Corporate Reorganizations</td>
<td>Survey of statutory and judicial rules governing the taxation of corporate reorganizations. Credit will be granted for only one of LAW 338 or LAW 438. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td></td>
<td>In Person</td>
<td></td>
<td>Tue</td>
</tr>
<tr>
<td>LAW 551-001</td>
<td>Trusts</td>
<td>History and nature of trusts; express, resulting, implied and constructive trusts; charitable and purpose trusts; administration of trusts; breach of trust. Credit will only be granted for one of LAW 551 or LAW 451. This course is not eligible for Credit/D/Fail grading.</td>
<td>W2</td>
<td></td>
<td>In Person</td>
<td>Arranged</td>
<td>Wee</td>
</tr>
</tbody>
</table>
History and nature of trusts; express, resulting, implied and constructive trusts; charitable and purpose trusts; administration of trusts; breach of trust. Credit will only be granted for one of LAW 551 or LAW 541. This course is not eligible for Credit/D/Fail grading.

LAW V 559-001
LAW V 559
D
D_001
Family Law
W1
The law relating to family relationships, including the law of marriage, divorce, maintenance, custody, matrimonial property, and related matters. Credit will only be granted for one of LAW 559 or LAW 558. This course is not eligible for Credit/D/Fail grading.

LAW V 559-002
LAW V 559
D
D_002
Family Law
W2
The law relating to family relationships, including the law of marriage, divorce, maintenance, custody, matrimonial property, and related matters. Credit will only be granted for one of LAW 559 or LAW 558. This course is not eligible for Credit/D/Fail grading.

LAW V 562-001
LAW V 562
D
D_001
Taxes of Corporations and Shareholders
W1
Survey of statutory provisions and judicial decisions governing the taxation of corporations and shareholders. Credit will be granted for only one of LAW 468 or LAW 562. This course is not eligible for Credit/D/Fail grading.

LAW V 564-001
LAW V 564
D
D_001
Taxes of Trusts and Estates
W2
Not offered each year, consult Faculty. Credit will be granted for only one of LAW 462 or LAW 564. This course is not eligible for Credit/D/Fail grading.

LAW V 565-001
LAW V 565
E
E_001
International Taxation
W2
The tax aspects of international transactions. Credit will be granted for only one of LAW 463 or LAW 565. This course is not eligible for Credit/D/Fail grading.

LAW V 566-001
LAW V 566
D
D_001
Tax Policy
W1
The policies underlying the creation and implementation of tax laws. Credit will be granted for only one of LAW 461 or LAW 566. This course is not eligible for Credit/D/Fail grading.

LAW V 567-001
LAW V 567
D
D_001
Tax Administration and Dispute Resolution
W1
Not offered each year, consult Faculty. Credit will be granted for only one of LAW 463 or LAW 567. This course is not eligible for Credit/D/Fail grading.

LAW V 568-C_001
LAW V 568
C
C_001
Topics in Taxation - Lecture
W1
Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.

LAW V 568-C_002
LAW V 568
C
C_002
Topics in Taxation - Lecture
W1
Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.

LAW V 569-C_001
LAW V 569
C
C_001
Topics in International Taxation
W2
Not offered each year, consult Faculty. This course is not eligible for Credit/D/Fail grading.

LAW V 570-C_001
LAW V 570
C
C_001
Intellectual Property
W1
Copyright, patents, trade marks, industrial design, the protection of computer software, and torts such as passing-off and breach of confidence. Credit will only be granted for one of LAW 570 or LAW 462. This course is not eligible for Credit/D/Fail grading.

LAW V 570-C_002
LAW V 570
C
C_002
Intellectual Property
W2
Copyright, patents, trade marks, industrial design, the protection of computer software, and torts such as passing-off and breach of confidence. Credit will only be granted for one of LAW 570 or LAW 462. This course is not eligible for Credit/D/Fail grading.

LAW V 571-001
LAW V 571
D
D_001
Communications Law
W1
Selected legal issues relating to the communications industry and their regulation. Not offered each year. Credit will only be granted for one of LAW 571 or LAW 476. This course is not eligible for Credit/D/Fail grading.

LAW V 572-001
LAW V 572
D
D_001
Cyberspace Law
W2
Legal issues arising from the development of the Internet and cyberspace. Credit will only be granted for one of LAW 572 or LAW 425. This course is not eligible for Credit/D/Fail grading.

LAW V 574-001
LAW V 574
D
D_001
Succession
W2
The law of wills and intestate succession; variation of wills; principles of probate and administration of estates. Credit will only be granted for one of LAW 574 or LAW 463. This course is not eligible for Credit/D/Fail grading.

LAW V 576-001
LAW V 576
D
D_001
Securities Regulation
W1
The law relating to the distribution of securities. Continuous and timely disclosure requirements and civil liability. Credit will only be granted for one of LAW 576 or LAW 460. This course is not eligible for Credit/D/Fail grading.

LAW V 576-002
LAW V 576
D
D_002
Securities Regulation
W2
The law relating to the distribution of securities. Continuous and timely disclosure requirements and civil liability. Credit will only be granted for one of LAW 576 or LAW 460. This course is not eligible for Credit/D/Fail grading.

LAW V 577-001
LAW V 577
D
D_001
Immigration Law
W2
Immigration law; refugees; protection of refugees; practice before immigration tribunals and the courts. Credit will only be granted for one of LAW 577 or LAW 377. This course is not eligible for Credit/D/Fail grading.

LAW V 578-C_001
LAW V 578
C
C_001
Refugee Law
W2
International and Canadian refugee law; the Refugee Convention and its implementation in Canada; the protection of refugees in Canadian courts and tribunals. Course content does not duplicate LAW 377. Credit will only be given to one of LAW 578 or LAW 376. This course is not eligible for Credit/D/Fail grading.

LAW V 587-C_001
LAW V 587
C
C_001
Environmental Law
W2
A foundation course dealing with the regulatory and policy framework for the protection of the environment in Canada, such as pollution control and biodiversity conservation. Credit will only be granted for one of LAW 587 or LAW 487. This course is not eligible for Credit/D/Fail grading.

LAW V 588-C_001
LAW V 588
C
C_001
Ethics and Professionalism
W2
The ethical dimensions of legal practice in Canada, including legislation, regulations, rules of professional conduct and codes, 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 488. This course is not eligible for Credit/D/Fail grading.

LAW V 588-C_002
LAW V 588
C
C_002
Ethics and Professionalism
W2
The ethical dimensions of legal practice in Canada, including legislation, regulations, rules of professional conduct and codes, 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 488. This course is not eligible for Credit/D/Fail grading.

LAW V 588-C_003
LAW V 588
C
C_003
Ethics and Professionalism
W2
The ethical dimensions of legal practice in Canada, including legislation, regulations, rules of professional conduct and codes, 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 488. 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 590 or LAW 468. This course is not eligible for Credit/D/Fail grading.

In Person Learning  
Arranged  
Arranged

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 590 or LAW 468. This course is not eligible for Credit/D/Fail grading.

In Person Learning  
Fri  
9:30 a.m. - 12:30 p.m.

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 590 or LAW 468. This course is not eligible for Credit/D/Fail grading.

In Person Learning  
Tue Thu  
11:00 a.m. - 12:30 p.m.

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 590 or LAW 468. This course is not eligible for Credit/D/Fail grading.

In Person Learning  
Fri  
1:30 p.m. - 2:00 p.m.

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 590 or LAW 468. This course is not eligible for Credit/D/Fail grading.

In Person Learning  
Wed  
6:00 p.m. - 9:00 p.m.

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 590 or LAW 468. This course is not eligible for Credit/D/Fail grading.

In Person Learning  
Wed  
6:00 p.m. - 9:00 p.m.

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 590 or LAW 468. This course is not eligible for Credit/D/Fail grading.

Online Learning  
Arranged  
Arranged

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

Online Learning  
Arranged  
Arranged

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

Online Learning  
Arranged  
Arranged

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

Online Learning  
Arranged  
Arranged

Conflict of Laws

Online Learning  
Arranged  
Arranged

Creditors' Remedies

Online Learning  
Wed  
5:00 p.m. - 8:00 p.m.

Doctoral Seminar I: Issues in Legal Theory

Online Learning  
Wed  
2:00 p.m. - 5:00 p.m.

Doctoral Seminar II: Comparative and Interdisciplinary Perspectives on Legal Theory

Online Learning  
Wed  
2:00 p.m. - 5:00 p.m.

Doctoral Dissertation

In Person Learning  
Arranged  
Arranged

Doctoral Dissertation

In Person Learning  
Arranged  
Arranged

Doctoral Dissertation

In Person Learning  
Arranged  
Arranged

Introduction to Land, Food and Community

Online Learning  
Fri  
12:00 p.m. - 1:00 p.m.
LFS_V 100-001
XMT 100 Introduction to Land, Food and Community Weekly
Orientation to the programs, learning environment and core values of the Faculty of Land and Food Systems; career programs; survey of professional opportunities and requirements. [3-0-0]
In Person Learning

LFS_V 101-201
W2 Principles of Microeconomics with Applications to Land and Food Systems Weekly
Microeconomic principles focused on private and social decision making related to the use of land, especially in agriculture, forestry, and conservation. Restricted to Faculty of Land and Food Systems students in Land One option. Credit will be granted for only one of FRST 101, LFS 101, ECON 101, or ECCN 201. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 101, ECON 101.
In Person Learning

LFS_V 101-001
W2 Principles of Microeconomics with Applications to Land and Food Systems Weekly
Microeconomic principles focused on private and social decision making related to the use of land, especially in agriculture, forestry, and conservation. Restricted to Faculty of Land and Food Systems students in Land One option. Credit will be granted for only one of FRST 101, LFS 101, ECON 101, or ECCN 201. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 101, ECON 101.
In Person Learning

LFS_V 110-201
W1-2 Land Div: First-year Integration Seminar Weekly
Managed systems and concepts of sustainability; economic, ecological and social components; food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, ECON 150.
In Person Learning

LFS_V 110-001
W1-2 Land Div: First-year Integration Seminar Weekly
Managed systems and concepts of sustainability; economic, ecological and social components; food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, ECON 150.
In Person Learning

LFS_V 110-001
W1-2 Land Div: First-year Integration Seminar Weekly
Managed systems and concepts of sustainability; economic, ecological and social components; food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, ECON 150.
In Person Learning

LFS_V 150-001
W1 Scholarly Writing and Argumentation in Land and Food Systems Weekly
Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, ECON 150.
In Person Learning

LFS_V 150-002
W1 Scholarly Writing and Argumentation in Land and Food Systems Weekly
Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, ECON 150.
Hybrid Learning

LFS_V 150-003
W1 Scholarly Writing and Argumentation in Land and Food Systems Weekly
Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, ECON 150.
Hybrid Learning

LFS_V 150-004
W1 Scholarly Writing and Argumentation in Land and Food Systems Weekly
Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, ECON 150.
Hybrid Learning

LFS_V 150-005
W1 Scholarly Writing and Argumentation in Land and Food Systems Weekly
Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, ECON 150.
Online Learning

LFS_V 150-006
W1 Scholarly Writing and Argumentation in Land and Food Systems Weekly
Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, ECON 150.
Hybrid Learning

LFS_V 150-007
W1 Scholarly Writing and Argumentation in Land and Food Systems Weekly
Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, ECON 150.
Online Learning

LFS_V 150-008
W1 Scholarly Writing and Argumentation in Land and Food Systems Weekly
Communicating concepts of food systems and links to human and environmental health through writing, elements of argumentation, evaluating evidence, and searching for and citing references to back up claims; small-class experience. Credit will be granted for only one of CRES 150, FRST 150, or LFS 150. This course is not eligible for Credit/D/Fail grading. Equivalency: FRST 150, ECON 150.
Hybrid Learning

LFS_V 150-001
W2 Scholarly Writing and Argumentation in Land and Food Systems Weekly
Managed systems and concepts of sustainability; economic, ecological and social components; managed landscapes, agri-food systems, and communities; urban and rural systems; the land, food, nutrition and human health continuum.
In Person Learning

LFS_V 250-001
W2 Land, Food and Community I: Introduction to Food Systems and Sustainability Weekly
Managed systems and concepts of sustainability; economic, ecological and social components; managed landscapes, agri-food systems, and communities; urban and rural systems; the land, food, nutrition and human health continuum.
Online Learning

LFS_V 250-002
W2 Land, Food and Community I: Introduction to Food Systems and Sustainability Weekly
Managed systems and concepts of sustainability; economic, ecological and social components; managed landscapes, agri-food systems, and communities; urban and rural systems; the land, food, nutrition and human health continuum.
Online Learning

LFS_V 250-003
W2 Land, Food and Community I: Introduction to Food Systems and Sustainability Weekly
Managed systems and concepts of sustainability; economic, ecological and social components; managed landscapes, agri-food systems, and communities; urban and rural systems; the land, food, nutrition and human health continuum.
Online Learning

LFS_V 250-000
W2 Land, Food and Community I: Introduction to Food Systems and Sustainability Weekly
Managed systems and concepts of sustainability; economic, ecological and social components; managed landscapes, agri-food systems, and communities; urban and rural systems; the land, food, nutrition and human health continuum.
Online Learning
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Hours</th>
<th>Type</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LFS_V 250-001</td>
<td>Land, Food and Community I: Introduction to Food Systems and Sustainability</td>
<td>0.5</td>
<td>8</td>
<td>In Person</td>
<td>Field studies carried out under staff direction. Participating students are assessed a fee.</td>
<td></td>
</tr>
<tr>
<td>LFS_V 250-002</td>
<td>Land, Food and Community I: Introduction to Food Systems and Sustainability</td>
<td>0.5</td>
<td>8</td>
<td>Online</td>
<td>Field studies carried out under staff direction. Participating students are assessed a fee.</td>
<td></td>
</tr>
<tr>
<td>LFS_V 250-003</td>
<td>Land, Food and Community I: Introduction to Food Systems and Sustainability</td>
<td>0.5</td>
<td>8</td>
<td>Online</td>
<td>Field studies carried out under staff direction. Participating students are assessed a fee.</td>
<td></td>
</tr>
<tr>
<td>LFS_V 250-004</td>
<td>Land, Food and Community I: Introduction to Food Systems and Sustainability</td>
<td>0.5</td>
<td>8</td>
<td>Hybrid</td>
<td>Field studies carried out under staff direction. Participating students are assessed a fee.</td>
<td></td>
</tr>
<tr>
<td>LFS_V 252-001</td>
<td>Co-operative Work Placement I</td>
<td>0.5</td>
<td>8</td>
<td>Hybrid</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>LFS_V 252-002</td>
<td>Co-operative Work Placement I</td>
<td>0.5</td>
<td>8</td>
<td>Hybrid</td>
<td>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.</td>
<td></td>
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</table>

**Course Descriptions:**

- **LFS_V 250-001:** Introduction to tools needed for data analysis of the economic, ecological, health, and scientific components of land and food systems. [3-0-1] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 150, MATH 180.
- **LFS_V 250-002:** Land, Food, and Community I: Introduction to Food Systems and Sustainability. Prerequisite: Must attend all Co-op pre-employment workshops.
- **LFS_V 252-001:** Co-operative Work Placement I. 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Credit Satisfactory Options</th>
<th>Notes</th>
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</thead>
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<tr>
<td>LFS_V 398-001</td>
<td>Co-operative Work Placement I</td>
<td>W1-2</td>
<td></td>
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<td></td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>LFS_V 399-001</td>
<td>Co-operative Work Placement II</td>
<td>W1</td>
<td></td>
<td></td>
<td></td>
<td>In Person Learning</td>
<td>Arranged</td>
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<td>LFS_V 399-002</td>
<td>Co-operative Work Placement III</td>
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<td>LFS_V 399-003</td>
<td>Co-operative Work Placement IV</td>
<td>W1-2</td>
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<td>LFS_V 400-001</td>
<td>Audio Storytelling</td>
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<td>LFS_V 400-002</td>
<td>Audio Storytelling</td>
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<td>LFS_V 401-001</td>
<td>Living Language: Science and Society</td>
<td>W1</td>
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<td>LFS_V 402-001</td>
<td>Land, Food, and Community IV: Leadership in Campus Food Systems Sustainability</td>
<td>W2</td>
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<td>LFS_V 403-001</td>
<td>Career Development Friction</td>
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<td>LFS_V 404-004</td>
<td>Co-operative Work Placement IV</td>
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<td>LFS_V 405-001</td>
<td>Graduate Seminar</td>
<td>W1-2</td>
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<td>Hybrid Learning</td>
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<td>LFS_V 406-001</td>
<td>Directed Studies</td>
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<td>LFS_V 406-003</td>
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<td>LFS_V 549-001</td>
<td>Master's Thesis</td>
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<td>LFS_V 649-001</td>
<td>Doctoral Dissertation</td>
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<td>Doctoral Dissertation</td>
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<td>LFS_V 649-003</td>
<td>Doctoral Dissertation</td>
<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>
<td>W1</td>
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<td>LIBE_V 467-63C</td>
<td>Information Services I</td>
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<td>Online Learning</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 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 9:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 506-001</td>
<td>Human-Information Interaction</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Wed 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>
<td>In Person Learning</td>
<td>Thu 9:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 508-001</td>
<td>Information Practices in Contemporary Society</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>LIBR_V 509-001</td>
<td>Foundations of Resource Description and Knowledge Organization</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Thu 2:00 p.m. - 5:00 p.m.</td>
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<td>LIBR_V 511-001</td>
<td>Cataloguing and Classification</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Wed 9:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 514-I_002</td>
<td>Topics in the Bibliographic Control of Information</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Thu 2:00 p.m. - 5:00 p.m.</td>
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<td>LIBR_V 514-K_002</td>
<td>Topics in the Bibliographic Control of Information</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue 2:00 p.m. - 5:00 p.m.</td>
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<td>LIBR_V 514-L_001</td>
<td>Topics in the Bibliographic Control of Information</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Mon 2:00 p.m. - 5:00 p.m.</td>
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<td>LIBR_V 516-001</td>
<td>Information Asset Management</td>
<td>W1</td>
<td>Online Learning</td>
<td>Mon 6:00 p.m. - 9:00 p.m.</td>
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<td>LIBR_V 520-002</td>
<td>Survey of Literature and Other Materials for Children</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 520-003</td>
<td>Literature and Other Materials for Young Adults</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Mon</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>LIBR_V 521-002</td>
<td>Services for Children</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 521-001</td>
<td>Legal Information Sources and Services</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Mon</td>
<td>6:00 p.m. - 9:00 p.m.</td>
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<td>LIBR_V 523-001</td>
<td>Health Information Sources and Services</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Thu</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>LIBR_V 524-001</td>
<td>Instructional Role of the Librarian</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>LIBR_V 526-002</td>
<td>Specialized Materials</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>LIBR_V 526-001</td>
<td>New Media for Children and Young Adults</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Wed</td>
<td>8:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>LIBR_V 527-001</td>
<td>Understanding Information Users in Diverse Environments</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Thu</td>
<td>8:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 528-001</td>
<td>Database Design</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Thu</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>LIBR_V 529-002</td>
<td>Database Design</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Thu</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>LIBR_V 530-001</td>
<td>Information Design I - Systems</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>LIBR_V 530-002</td>
<td>Information Design I - Documents</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Fri</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 531-001</td>
<td>Information Retrieval Systems: Concepts and Practice</td>
<td>In Person Learning</td>
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<td>LIBR_V 532-001</td>
<td>Topics in Computer-Based Information Systems</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Tue</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 533-002</td>
<td>Topics in Computer-Based Information Systems</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Tue</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>LIBR_V 534-001</td>
<td>Information Practice and Protocol in Support of Indigenous Initiatives</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Tue</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 535-002</td>
<td>Progressive and Radical Information Work</td>
<td>In Person Learning</td>
<td>W2</td>
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<td>LIBR_V 536-001</td>
<td>Current Issues and Trends in Library Services</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Tue</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>LIBR_V 537-002</td>
<td>Current Issues and Trends in Library Services</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Thu</td>
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<tr>
<td>LIBR_V 538-001</td>
<td>Current Issues and Trends in Library Services</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Thu</td>
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<tr>
<td>LIBR_V 570-002</td>
<td>Marketing in Information Organizations</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. Online Learning Fri 8:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>LIBR_V 570-001</td>
<td>Marketing in Information Organizations</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In-Person Learning Wed 6:00 p.m. - 8:00 p.m.</td>
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<tr>
<td>LIBR_V 574-001</td>
<td>Project Management in Information Organizations</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In-Person Learning Wed 6:00 p.m. - 8:00 p.m.</td>
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<tr>
<td>LIBR_V 574-002</td>
<td>Project Management in Information Organizations</td>
<td>W2</td>
<td>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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<tr>
<td>LIBR_V 575-002</td>
<td>Academic Libraries</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In-Person Learning Thu 2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>LIBR_V 576-002</td>
<td>Public Libraries</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In-Person Learning Thu 2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>LIBR_V 579-D_002</td>
<td>Topics in the Management of Libraries and Archives</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In-Person Learning Thu 2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>LIBR_V 580-001</td>
<td>Collection Management</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In-Person Learning Tue 8:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>LIBR_V 580-002</td>
<td>Collection Management</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In-Person Learning Tue 2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>LIBR_V 582-001</td>
<td>Digital Image and Text Collections</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In-Person Learning Tue 8:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>LIBR_V 587-001</td>
<td>Preservation</td>
<td>W1</td>
<td>Credit will only be granted for one of LIBR 587 or ARST 587. This course is not eligible for Credit/D/Fail grading. In-Person Learning Mon 8:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>LIBR_V 587-002</td>
<td>Preservation</td>
<td>W2</td>
<td>Credit will only be granted for one of LIBR 587 or ARST 587. This course is not eligible for Credit/D/Fail grading. In-Person Learning Mon 8:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>LIBR_V 592-001</td>
<td>Directed Research Project</td>
<td>W1</td>
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<tr>
<td>LIBR_V 592-002</td>
<td>Directed Research Project</td>
<td>W2</td>
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<td>LIBR_V 592-003</td>
<td>Directed Research Project</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>LIBR_V 594-001</td>
<td>Directed Study</td>
<td>W1</td>
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<td>LIBR_V 596-001</td>
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Credit will only be granted for one of LIBR 587 or ARST 587. This course is not eligible for Credit/D/Fail grading. Equivalency: ARST587

In Person Learning

Arranged
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<td>Introduction to Language and Linguistics</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>In Person Learning</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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This course is not eligible for Credit/D/Fail grading.
In Person Learning
Introduction to Language and Linguistics

Languages of the World

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Introduction to Language and Linguistics

Languages of the World
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<td>LGT_V 209-002</td>
<td>Clinical Topics in Speech, Language, and Hearing Sciences</td>
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<td>Fri</td>
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<td>LGT_V 222-001</td>
<td>Language Acquisition</td>
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<td>Fri</td>
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<td>LGT_V 222-771</td>
<td>Language Acquisition</td>
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<td>Fri</td>
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<td>LING-V 222-774</td>
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<td>Language Acquisition</td>
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**Introduction to Linguistic Phonetics and Speech Science**
- 2:00 p.m. - 3:00 p.m. (Friday)
- Language Production: 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.

**Studies in Grammar**
- 3:30 p.m. - 5:00 p.m. (Friday)
- Introduction to syntactic analysis and theory, with emphasis on description and analysis of data from a wide variety of languages. Prerequisite: LING 201.

**The Languages of Africa**
- 1:00 p.m. - 2:00 p.m. (Wednesday)
- Linguistic survey of the languages of Africa, including typological and historical connections between languages, individual and comparative surveys of sound systems, word structures, sentence structures, semantics, and sociolinguistic properties of a representative selection of languages. Credit will only be granted for one of LING 308 or AFST 308. Equivalency: AFST 308.
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<td>Research Methods for Linguistics</td>
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<td>LING V 342-001</td>
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<td>Compositional Models of Language</td>
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<td>LING V 345-002</td>
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<td>W2</td>
<td>In Person Learning</td>
<td>Field Methods II</td>
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<td>LING V 433-002</td>
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<td>W2</td>
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<td>LING V 439-001</td>
<td>439</td>
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<td>Language as a Social Instrument</td>
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</table>

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. Offered every year.

Survey of the indigenous languages of the Americas. Study of the basis of genetic classification and historical relationships. Methods of comparative and internal reconstruction of phonological, morphological, syntactic, and semantic change. Not offered every year. Prerequisite: LING 200 and LING 319. Offered every year.

Physiological and/or acoustic phonetics. Focus on experimental methods and analysis techniques. Topics may include: source-filter theory; spectral and temporal acoustic analysis; inter-articulator timing and motor coordination. Prerequisite: LING 200. Recommended: LING 319. Offered every year.

The systematic study of language as a social phenomenon. Credit will be granted for only one of LING 441 or 415. Prerequisite: All of LING 200, LING 319.

General background to linguistic studies; the different approaches to the analysis of languages; synchronic and diachronic linguistics; phonetics, phonology, morphology, syntax, and semantics. Not available for credit toward a Major or Honours program in Linguistics. Prerequisite: LING 200, LING 319.

Current issues in phonological theory. This course is not eligible for Credit/D/Fail grading. Prerequisite: LING 319. Offered every year.

General background to linguistic studies; the different approaches to the analysis of languages; synchronic and diachronic linguistics; phonetics, phonology, morphology, syntax, and semantics. Not available for credit toward a Major or Honours program in Linguistics. Prerequisite: LING 319. Offered every year.

Elicitation, transcription, organization, and analysis of linguistic data from a native speaker of a language not commonly studied. Practical experience in the use of fieldwork equipment. Prerequisite: All of LING 202, LING 311. Offered every year.

Elicitation, transcription, organization, and analysis of linguistic data from a native speaker of a language not commonly studied. Practical experience in the use of fieldwork equipment. Prerequisite: LING 402. Offered every year.

Survey of the indigenous languages of the Americas. Study of the basis of genetic classification and morphosyntactic similarities. The structure of representative languages will be presented and contrasted. The present status of American Indian languages will be considered. Not: this course is not necessarily offered every year. Online Learning Only.
<table>
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<td>LING_V 447-D_003</td>
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<td>Honours Essay</td>
<td>D2</td>
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</table>

**Notes:**
- All courses are offered in Person Learning, unless otherwise specified.
- Course descriptions and prerequisites vary by section and may require Department Advisor approval.
- Supervisor and topic choices are made by mutual agreement between student and Linguistics faculty member.
- Courses may be repeated for credit when content is different.
Topics in Semantics
Tue Thu
In Person Learning
Arranged
Field Methods in Linguistics I
Arranged
532
9:30 a.m. - 11:00 a.m.
649
W1
Linguistic Problems in a Special Area
11:00 a.m. - 12:30 p.m.
Tue Thu
531
Mon Wed
549
E
W2
Syntactic Theory and Analysis
W1
This course is not eligible for Credit/D/Fail grading.
R_001
11:00 a.m. - 12:30 p.m.
Mon
520
Tue Thu
D
D
546
W1-2
Doctoral Dissertation
This course is not eligible for Credit/D/Fail grading.
001
2:00 p.m. - 3:30 p.m.
In Person Learning
In Person Learning
Directed Reading in Topics related to Linguistics
Directed Reading in Topics related to Linguistics
Directed Reading in Topics related to Linguistics
In Person Learning
Wed
This course is not eligible for Credit/D/Fail grading. Prerequisite: All of LING 222, LING 340.
In Person Learning
Tue Thu
In Person Learning
In Person Learning
Discussion and critical analysis of current issues in semantic theory. This course is not eligible for Credit/D/Fail grading.
Discussion and critical analysis of current issues in syntactic theory. This course is not eligible for Credit/D/Fail grading.
Discussion and critical analysis of current issues in phonological theory. This course is not eligible for Credit/D/Fail grading.
This course is not eligible for Credit/D/Fail grading. Prerequisite: LING 510.
This course is not eligible for Credit/D/Fail grading.
Discussion and critical analysis of current issues in linguistic phonetics; instrumental analysis. This course is not eligible for Credit/D/Fail grading.
Discussion and critical analysis of current issues in phonological theory. This course is not eligible for Credit/D/Fail grading.
Discussion and critical analysis of current issues in linguistic phonetics; instrumental analysis. This course is not eligible for Credit/D/Fail grading.
Central issues in the first language acquisition of syntax, including early lexical and semantic development, acquisition of morphology, and syntactic development (e.g., word order, questions). Prerequisite: All of LING 222, LING 340.
This course is not eligible for Credit/D/Fail grading.
This course is not eligible for Credit/D/Fail grading.
Examination of sociolinguistic knowledge and skills that are central to the production of academic and professional texts.
<table>
<thead>
<tr>
<th>Code</th>
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<th>Days</th>
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<td>201</td>
<td>Critical Reading and Writing in Academic and Professional Registers</td>
<td>W2</td>
<td>Tue Thu</td>
<td>11:30 a.m. - 1:00 p.m.</td>
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<td>LLED_V 201-V89</td>
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<td>W2</td>
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<td>LLED_V 201-VE1</td>
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<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<td>Tue Thu</td>
<td>1:30 p.m. - 3:00 p.m.</td>
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<td>W2</td>
<td>Tue Thu</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<td>LLED_V 212-001</td>
<td>212</td>
<td>Introduction to Language Communities and Variation in Language Practices</td>
<td>W1</td>
<td>Wed</td>
<td>9:30 a.m. - 12:30 p.m.</td>
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<tr>
<td>LLED_V 212-201</td>
<td>212</td>
<td>Introduction to Language Communities and Variation in Language Practices</td>
<td>W1</td>
<td>Fri</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>LLED_V 213-001</td>
<td>213</td>
<td>Introduction to Intercultural Communication and Socialization in Multicultural Contexts</td>
<td>W2</td>
<td>Mon</td>
<td>9:30 a.m. - 12:30 p.m.</td>
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<td>LLED_V 213-002</td>
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<td>Introduction to Intercultural Communication and Socialization in Multicultural Contexts</td>
<td>W2</td>
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<td>LLED_V 213-003</td>
<td>213</td>
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<td>LLED_V 213-004</td>
<td>213</td>
<td>Introduction to Intercultural Communication and Socialization in Multicultural Contexts</td>
<td>W2</td>
<td>Fri</td>
<td>11:00 a.m. - 1:00 p.m.</td>
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<tr>
<td>LLED_V 220-001</td>
<td>220</td>
<td>Introduction to Translating in a Globalized Society</td>
<td>W1</td>
<td>Wed</td>
<td>9:30 a.m. - 12:30 p.m.</td>
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</table>
Introduction to the Nature of World Englishes

**Course Description:**
Basic levels of translation as a methodology for increasing students' sociocultural understanding, intercultural communication, pragmatics, and written English.

**In Person Learning**

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<th>Location</th>
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<tr>
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<td>LLED_V 350-101</td>
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<td>1:00 p.m. - 4:00 p.m.</td>
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Pass/Fail. This course is not eligible for Credit/D/Fail grading.

Teaching and Learning French as a Second Language in Multilingual Settings: Elementary.

In Person Learning

Teaching and Learning English as an Additional Language: Elementary.

In Person Learning

Literacy Practices and Assessment: Elementary

Literacy Practices and Assessment: Elementary
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<th>CRN</th>
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<td>353</td>
<td>301</td>
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<td>In Person Learning</td>
<td>Wed</td>
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<td>353</td>
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<td>W1</td>
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<tr>
<td>353</td>
<td>307</td>
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<tr>
<td>353</td>
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<tr>
<td>353</td>
<td>309</td>
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<tr>
<td>353</td>
<td>310</td>
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<td>360</td>
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<tr>
<td>360</td>
<td>302</td>
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<td>W1</td>
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<tr>
<td>360</td>
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<tr>
<td>360</td>
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<tr>
<td>360</td>
<td>306</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>360</td>
<td>307</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading</td>
<td>In Person Learning</td>
<td>Thu</td>
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<tr>
<td>360</td>
<td>308</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
<td>W1</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>360</td>
<td>309</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading</td>
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<tr>
<td>360</td>
<td>310</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading</td>
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<td>360</td>
<td>640</td>
<td>Classroom Discourses and Teaching English Language Learners: Secondary</td>
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<tr>
<td>361</td>
<td>640</td>
<td>Literacy Practices and Assessment: Secondary</td>
<td>W2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading</td>
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<td>Arranged</td>
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<tr>
<td>366</td>
<td>301</td>
<td>Teaching Literature</td>
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<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>366</td>
<td>302</td>
<td>Teaching Literature</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>366</td>
<td>640</td>
<td>Teaching Literature</td>
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<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading</td>
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</table>

Curriculum and pedagogy related to the theories, concepts, and strategies relevant in secondary school classrooms. This course is not eligible for Credit/D/Fail grading.
<table>
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<tr>
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<td>Teaching Writing</td>
<td>W1</td>
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<td>This course is not eligible for Credit/D/Fail grading</td>
<td>In Person Learning</td>
<td>Fri     1:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>LLED_V 368-301</td>
<td>Multiliteracies in English Language Arts Classrooms</td>
<td>W1</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading</td>
<td>In Person Learning</td>
<td>Wed     4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>LLED_V 370-301</td>
<td>Foundations of Teaching French: Secondary</td>
<td>W1</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading</td>
<td>In Person Learning</td>
<td>Wed     4:30 p.m. - 7:30 p.m.</td>
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<td>LLED_V 372-301</td>
<td>Teaching French Language and Literacy: Secondary</td>
<td>W1</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading</td>
<td>In Person Learning</td>
<td>Mon     1:00 p.m. - 2:10 p.m.</td>
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<tr>
<td>LLED_V 381-301</td>
<td>Foundations of Teaching Modern Languages: Secondary</td>
<td>W1-2</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading</td>
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<tr>
<td>LLED_V 386-301</td>
<td>Secondary Theatre: Introduction to Curriculum &amp; Pedagogy</td>
<td>W1</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading</td>
<td>In Person Learning</td>
<td>Thu     5:00 p.m. - 8:00 p.m.</td>
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<td>LLED_V 386-640</td>
<td>Secondary Theatre: Introduction to Curriculum &amp; Pedagogy</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>LLED_V 388-301</td>
<td>Secondary Theatre: Principles and Design</td>
<td>W1</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading</td>
<td>In Person Learning</td>
<td>Mon     4:30 p.m. - 8:00 p.m.</td>
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<tr>
<td>LLED_V 399-602</td>
<td>Practicum in Teaching English as a Second Language</td>
<td>W2</td>
<td>Pass/Fail</td>
<td>This course is not eligible for Credit/D/Fail grading</td>
<td>In Person Learning</td>
<td>Tue     4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>LLED_V 402-601</td>
<td>Living Language: Science and Society</td>
<td>W1</td>
<td>Online</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. Prerequisite: Fourth-year standing or permission of the instructor. Equivalency: APSC402, ASTU402, FIRST42, LFS 402, PHAR402</td>
<td>Online Learning</td>
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<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</td>
<td>In Person Learning</td>
<td>Mon     4:30 p.m. - 8:00 p.m.</td>
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<tr>
<td>LLED_V 441-63A</td>
<td>Introduction to Teaching Children's Literature</td>
<td>W1</td>
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<td>LLED_V 441-63B</td>
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<tr>
<td>LLED_V 441-63C</td>
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<td>LLED_V 446-061</td>
<td>Adolescent Literacies: Processes and Practices</td>
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<tr>
<td>LLED_V 459-63C</td>
<td>Trends and Issues in Literacy Instruction</td>
<td>W2</td>
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<td>Trends and Issues in Literacy Instruction</td>
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<tr>
<td>LLED_V 462-63A</td>
<td>School Library Resource Centre Programs</td>
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<td>Online</td>
<td>School Library Resource Centre Programs</td>
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</table>

Notes:
- Pass/Fail grading is available for all courses mentioned, except for those marked as ineligible for Credit/D/Fail grading.
- Grading options may vary based on credit mode.
- Learning modes include In Person Learning, Online Learning, and Arranged (dates to be arranged).
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<td>LLED_V 462</td>
<td>LLED_V 462 School Library Resource Centre Programs</td>
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<td>LLED_V 469</td>
<td>LLED_V 469 Inquiry-Based Pedagogy in School Library Programs</td>
<td>W1</td>
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<td></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. Online Learning Arranged Arranged</td>
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<tr>
<td>LLED_V 470</td>
<td>LLED_V 470 Introduction to Teaching English as a Second Language</td>
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<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Mon 4:30 p.m. - 7:30 p.m.</td>
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<td>LLED_V 471</td>
<td>LLED_V 471 Introduction to Teaching English as a Second Language</td>
<td>W1</td>
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<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Thur 4:30 p.m. - 7:30 p.m.</td>
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<td>LLED_V 472</td>
<td>LLED_V 472 Introduction to Teaching English as a Second Language</td>
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<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Mon 4:30 p.m. - 7:30 p.m.</td>
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<td>LLED_V 473</td>
<td>LLED_V 473 Introduction to Teaching English as a Second Language</td>
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<td>LLED_V 474</td>
<td>LLED_V 474 Introduction to Teaching English as a Second Language</td>
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<td>LLED_V 475</td>
<td>LLED_V 475 Introduction to Teaching English as a Second Language</td>
<td>W1</td>
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<td>LLED_V 476</td>
<td>LLED_V 476 Introduction to Teaching English as a Second Language</td>
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<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Mon 4:30 p.m. - 7:30 p.m.</td>
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<td>LLED_V 477</td>
<td>LLED_V 477 Introduction to Teaching English as a Second Language</td>
<td>W2</td>
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<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Thur 4:30 p.m. - 7:30 p.m.</td>
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<td>LLED_V 478</td>
<td>LLED_V 478 Introduction to Teaching English as a Second Language</td>
<td>W1</td>
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<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Mon 4:30 p.m. - 7:30 p.m.</td>
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<td>LLED_V 479</td>
<td>LLED_V 479 The Education of Immigrant Students</td>
<td>W1</td>
<td></td>
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<td>An examination of the cultural backgrounds of major ethnic groups. Instructional techniques for meeting the needs of immigrant students in the regular classroom with respect to culture and language. In Person Learning Arranged Arranged</td>
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<tr>
<td>LLED_V 480</td>
<td>LLED_V 480 Advanced Studies in Language and Literacy Education</td>
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<td>Credit will be given for only 4 credits of LLED 480 and 429. In Person Learning Arranged Arranged</td>
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<tr>
<td>LLED_V 481</td>
<td>LLED_V 481 Digital Media in English Language Arts Education</td>
<td>W1</td>
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<td>In Person Learning Mon-Wed 1:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>LLED_V 482</td>
<td>LLED_V 482 Advanced Studies in Language and Literacy Education</td>
<td>W2</td>
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<td>Credit will be given for only 4 credits of LLED 480 and 429. In Person Learning Wed 4:30 p.m. - 7:30 p.m.</td>
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<tr>
<td>LLED_V 483</td>
<td>LLED_V 483 Supervised Study in English Education</td>
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<td>LLED_V 484</td>
<td>LLED_V 484 Supervised Study in Reading</td>
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<td>LLED_V 485</td>
<td>LLED_V 485 Supervised Study in Modern Languages Education</td>
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<td>Supervised Study in Modern Languages Education</td>
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<td>LLED_V 502-062</td>
<td>Analyzing Discourse in Education: Descriptive and Critical Approaches</td>
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<td>LLED_V 505-062</td>
<td>Language, Discourse and identity</td>
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<td>LLED_V 510-061</td>
<td>Critical Intercultural Studies in Language Education</td>
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<td>LLED_V 510-062</td>
<td>Second Language Assessment: Conceptual and Empirical Approaches</td>
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<td>LLED_V 520-062</td>
<td>Theory and Research in Teaching Written Composition</td>
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<td>LLED_V 521-062</td>
<td>Second Language Assessment: Conceptual and Empirical Approaches</td>
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<td>LLED_V 526-062</td>
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<td>Theory and Research in Early Literacy</td>
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<td>Introduction to Research in the Teaching of Literature</td>
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<td>LLED_V 551-061</td>
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<td>Master's Thesis</td>
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<td>L10D_V 599-061</td>
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<td>599</td>
<td>061</td>
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<td>LLED_V 599-062</td>
<td>Directed Studies</td>
<td>Urban Watershed Management</td>
<td>0.62</td>
<td>W2</td>
<td>Mon</td>
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<td>LLED_V 601-061</td>
<td>Directed Studies</td>
<td>Theories for Language and Literacy Research</td>
<td>0.61</td>
<td>W1</td>
<td>Wed</td>
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<tr>
<td>LLED_V 603-062</td>
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<td>Critical Analysis of Issues and Methodology in Language and Literacy Education</td>
<td>0.62</td>
<td>W2</td>
<td>Tue</td>
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<td>LLED_V 699-060</td>
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<td>Doctoral Dissertation</td>
<td>1.00</td>
<td>W1-2</td>
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<td>0.61</td>
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<td>LLED_V 699-062</td>
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<td>W2</td>
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<td>WWS_V 501-001</td>
<td>Advanced Soil Processes</td>
<td>Theories for Language and Literacy Research</td>
<td>0.61</td>
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<td>WWS_V 501-701</td>
<td>Advanced Soil Processes</td>
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<td>0.61</td>
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<td>WWS_V 510-003</td>
<td>Land and Water Service</td>
<td>Watershed Science</td>
<td>0.63</td>
<td>W1-2</td>
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<td>WWS_V 515-001</td>
<td>Urban Land Use</td>
<td>Urban Water Management Evaluation</td>
<td>0.61</td>
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<td>WWS_V 516-001</td>
<td>Urban Land Use</td>
<td>Urban Water Management Evaluation</td>
<td>0.61</td>
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<td>Thu</td>
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<td>WWS_V 517-001</td>
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<td>0.61</td>
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<td>WWS_V 525-002</td>
<td>Global Issues in Land and Water Systems</td>
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<td>W1</td>
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<td>LWS_V 530-A.002</td>
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<td>LWS_V 530-B.001</td>
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<td>Directed Studies in Land and Water Systems</td>
<td>0.61</td>
<td>W1</td>
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<td>LWS_V 530-B.002</td>
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<td>Directed Studies in Land and Water Systems</td>
<td>0.62</td>
<td>W2</td>
<td>Mon</td>
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<td>LWS_V 530-B.003</td>
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<td>Directed Studies in Land and Water Systems</td>
<td>0.63</td>
<td>W1-2</td>
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<td>LWS_V 530-C.001</td>
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<td>Directed Studies in Land and Water Systems</td>
<td>0.61</td>
<td>W1</td>
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<td>LWS_V 530-C.002</td>
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<td>LWS_V 530-C.003</td>
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<td>Directed Studies in Land and Water Systems</td>
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<td>LWS_V 548-001</td>
<td>Major Project</td>
<td>Major Project</td>
<td>0.61</td>
<td>W1</td>
<td>Mon</td>
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</table>

### Course Descriptions

- **Urban Watershed Management**: This course introduces students to the principles and practices of urban watershed management, including the evaluation of urban water systems, stormwater management, and the integration of nature-based solutions. This course is not eligible for Credit/D/Fail grading. Prerequisite: Admission to the Ph.D. program in LLED.

- **Theories for Language and Literacy Research**: This course provides an overview of theoretical frameworks in language and literacy, focusing on the evolution, effects of agriculture, forestry, industry and urbanization. This course is not eligible for Credit/D/Fail grading. Equivalency: SOIL501.

- **Critical Analysis of Issues and Methodology in Language and Literacy Education**: This course is designed to enhance critical thinking and research skills in language and literacy studies. It covers various methodologies and critical analysis of issues in the field. This course is not eligible for Credit/D/Fail grading. Equivalency: SOIL515.

- **Watershed Science**: This course focuses on watershed science, including hydrology, water quality, and land use impacts on water resources. It covers topics such as point and non-point sources of pollution, riparian buffer zones, and integration of multiple land use activities. This course is not eligible for Credit/D/Fail grading. Equivalency: SOIL516.

- **Urban Land Use**: This course examines the urban land use planning process, including cumulative effects, and application of beneficial management practices. It also covers urbanization impacts on water resources with a focus on rainwater management, water quality, point and non-point sources of pollution, drinking water and waste water, riparian buffer zones, cumulative effects, and application of beneficial management practices. This course is not eligible for Credit/D/Fail grading. Equivalency: SOIL517.

- **Water Management**: This course teaches students about various aspects of water management, including professional paper on topics focusing on emerging issues in water and land resources. This course is restricted to students in Language and Literacy Education (LLED) MA programs. This course is not eligible for Credit/D/Fail grading. Equivalency: SOIL501.
<table>
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Credits</th>
<th>Pre-Requisites</th>
<th>Type</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
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<tbody>
<tr>
<td>MANU 230-01-1</td>
<td>Manufacturing Engineering Laboratory</td>
<td>W1-2</td>
<td>Theory, operational constraints, and problem solving in traditional manufacturing processes. Casting, heat treatment, bolt deformation (i.e. rolling, extrusion, drawing), machining, and shaping of components. Experiments in process and product characterization. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>12:00 p.m. - 2:00 p.m.</td>
<td>Manu V 101-101</td>
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<tr>
<td>MANU 230-01E</td>
<td>Manufacturing Engineering Laboratory</td>
<td>W1-2</td>
<td>Theory, operational constraints, and problem solving in traditional manufacturing processes. Casting, heat treatment, bolt deformation (i.e. rolling, extrusion, drawing), machining, and shaping of components. Experiments in process and product characterization. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>10:00 a.m. - 11:30 a.m.</td>
<td>Manu V 101-101</td>
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</tr>
<tr>
<td>MANU 230-01A</td>
<td>Manufacturing Engineering Laboratory</td>
<td>W2</td>
<td>Theory, operational constraints, and problem solving in traditional manufacturing processes. Casting, heat treatment, bolt deformation (i.e. rolling, extrusion, drawing), machining, and shaping of components. Experiments in process and product characterization. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>10:00 a.m. - 12:30 p.m.</td>
<td>Manu V 101-101</td>
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<tr>
<td>MANU 230-01B</td>
<td>Manufacturing Engineering Laboratory</td>
<td>W2</td>
<td>Theory, operational constraints, and problem solving in traditional manufacturing processes. Casting, heat treatment, bolt deformation (i.e. rolling, extrusion, drawing), machining, and shaping of components. Experiments in process and product characterization. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>1:00 p.m. - 5:00 p.m.</td>
<td>Manu V 101-101</td>
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<tr>
<td>MANU 261-101</td>
<td>Thermodynamics</td>
<td>W1</td>
<td>Thermodynamic system and properties, thermodynamic processes, work and heat interactions. Conservation of energy and First Law, internal energy and entropy, the Second Law and entropy, application in manufacturing processes. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Manu V 261-101</td>
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<tr>
<td>MANU 261-T1A</td>
<td>Thermodynamics</td>
<td>W1</td>
<td>Thermodynamic system and properties, thermodynamic processes, work and heat interactions. Conservation of energy and First Law, internal energy and entropy, the Second Law and entropy, application in manufacturing processes. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>1:30 p.m. - 3:30 p.m.</td>
<td>Manu V 261-101</td>
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<tr>
<td>MANU 260-201</td>
<td>Machine Dynamics</td>
<td>W2</td>
<td>Classifications of mechanisms, velocity, acceleration and force analysis, graphical and computer-oriented vector and matrix methods, balancing, flywheels, gears, gear trains, cam. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>8:00 a.m. - 9:00 a.m.</td>
<td>Manu V 260-201</td>
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<tr>
<td>MANU 260-T2A</td>
<td>Machine Dynamics</td>
<td>W2</td>
<td>Classifications of mechanisms, velocity, acceleration and force analysis, graphical and computer-oriented vector and matrix methods, balancing, flywheels, gears, gear trains, cam. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
<td>Manu V 260-201</td>
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<tr>
<td>MANU 270-01I</td>
<td>Production Systems Management I</td>
<td>W2</td>
<td>Impact of operations in increasing productivity and reducing waste. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>10:00 a.m. - 10:30 a.m.</td>
<td>Manu V 270-01I</td>
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<tr>
<td>MANU 330-001</td>
<td>Manufacturing Engineering Project I</td>
<td>W1-2</td>
<td>Project-based, multi-step manufacturing engineering design and problem solving. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>Manu V 330-001</td>
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<tr>
<td>MANU 330-00A</td>
<td>Manufacturing Engineering Project I</td>
<td>W1-2</td>
<td>Project-based, multi-step manufacturing engineering design and problem solving. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>1:00 p.m. - 3:30 p.m.</td>
<td>Manu V 330-00A</td>
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<tr>
<td>MANU 330-00B</td>
<td>Manufacturing Engineering Project I</td>
<td>W1-2</td>
<td>Project-based, multi-step manufacturing engineering design and problem solving. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>1:30 p.m. - 3:10 p.m.</td>
<td>Manu V 330-00B</td>
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<tr>
<td>MANU 370-10I</td>
<td>Production Systems Management II</td>
<td>W1</td>
<td>Functional areas of production and operations management. Decision-making, capacity planning, aggregate planning, inventory management, distribution planning, materials requirements planning and quality control. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>1:30 p.m. - 5:00 p.m.</td>
<td>Manu V 370-10I</td>
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<tr>
<td>MANU 370-02I</td>
<td>Manufacturing Processes I</td>
<td>W2</td>
<td>Materials selection for different design criteria; importance of shape and processing variables; computer software selection. Credit will be granted for only one of MTRL 370 or MANU 370. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Manu V 370-02I</td>
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<td>MANU 370-T2A</td>
<td>Manufacturing Processes I</td>
<td>W2</td>
<td>Materials selection for different design criteria; importance of shape and processing variables; computer software selection. Credit will be granted for only one of MTRL 370 or MANU 370. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>Manu V 370-T2A</td>
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<tr>
<td>MANU 380-102</td>
<td>Manufacturing Processes I</td>
<td>W1</td>
<td>Conservation between material properties and processing for practical engineering manufacturing routes. Calculations and design. Application of transport/heat transfer, mechanics and thermodynamics to manufacturing processes. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>Manu V 380-102</td>
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<td>MANU 380-T1A</td>
<td>Manufacturing Processes I</td>
<td>W1</td>
<td>Conservation between material properties and processing for practical engineering manufacturing routes. Calculations and design. Application of transport/heat transfer, mechanics and thermodynamics to manufacturing processes. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>3:30 p.m. - 5:30 p.m.</td>
<td>Manu V 380-T1A</td>
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<td>MANU 380-101</td>
<td>Industrial Automation</td>
<td>W1</td>
<td>Principles component of manufacturing automation, modeling of sensors actuation 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.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>3:00 p.m. - 6:00 p.m.</td>
<td>Manu V 380-101</td>
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<td>MANU 380-L1A</td>
<td>Industrial Automation</td>
<td>W1</td>
<td>Principles component of manufacturing automation, modeling of sensors actuation 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.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>4:00 p.m. - 6:00 p.m.</td>
<td>Manu V 380-L1A</td>
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<tr>
<td>MANU 380-11B</td>
<td>Industrial Automation</td>
<td>W1</td>
<td>Principles component of manufacturing automation, modeling of sensors actuation 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.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>11:00 a.m. - 2:00 p.m.</td>
<td>Manu V 380-11B</td>
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</table>
**MANU_V 380-L1C**

**Industrial Automation**

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

- **Prerequisite:** MANU 260, MATH 255. Corequisite: MANU 380.

**MANU_V 380-L2C**

**Industrial Automation**

- **In Person Learning**
- **10:00 a.m. - 12:00 p.m.**

- **Prerequisite:** MANU 260, MATH 255. Corequisite: MANU 380.

**MANU_V 380-T2A**

**Industrial Automation**

- **In Person Learning**
- **2:00 p.m. - 4:00 p.m.**

- **Prerequisite:** MANU 260, MATH 255. Corequisite: MANU 380.

**MANU_V 380-T2B**

**Industrial Automation**

- **In Person Learning**
- **4:30 p.m. - 6:30 p.m.**

- **Prerequisite:** MANU 260, MATH 255. Corequisite: MANU 380.

**MANU_V 430-001**

**Manufacturing Design Capstone Project**

- **In Person Learning**
- **12:30 p.m. - 3:30 p.m.**

- **Prerequisite:** 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. [3-1*-0]

**MANU_V 450-001**

**Biomedical Manufacturing**

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

- **Prerequisite:** Third-year standing or higher.

**MANU_V 450-201**

**Biomedical Manufacturing**

- **In Person Learning**
- **1:00 p.m. - 3:00 p.m.**

- **Prerequisite:** Third-year standing or higher.

**MANU_V 453-201**

**Additive Manufacturing Design**

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

- **Prerequisite:** Third-year standing or greater.

**MANU_V 453-2A**

**Additive Manufacturing Design**

- **In Person Learning**
- **4:30 p.m. - 6:30 p.m.**

- **Prerequisite:** Third-year standing or greater.

**MANU_V 456-101**

**Manufacturing for Clean Energy**

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

- **Prerequisite:** Third-year standing or greater.

**MANU_V 465-101**

**AI and Machine Learning Applications in Manufacturing**

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

- **Prerequisite:** Third-year standing or greater.

**MANU_V 465-T2C**

**AI and Machine Learning Applications in Manufacturing**

- **In Person Learning**
- **12:30 p.m. - 1:30 p.m.**

- **Prerequisite:** Third-year standing or greater.

**MANU_V 480-101**

**Manufacturing Processes II**

- **In Person Learning**
- **3:00 p.m. - 4:00 p.m.**

- **Prerequisite:** Third-year standing or greater.

**MANU_V 480-T2C**

**Manufacturing Processes II**

- **In Person Learning**
- **4:30 p.m. - 5:30 p.m.**

- **Prerequisite:** Third-year standing or greater.

**MANU_V 485-201**

**Metal Cutting and Machine Tool Vibrations**

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

- **Prerequisite:** MANU 380.

**MANU_V 485-T2A**

**Metal Cutting and Machine Tool Vibrations**

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

- **Prerequisite:** MANU 380.

**MANU_V 485-201**

**Metal Cutting and Machine Tool Vibrations**

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

- **Prerequisite:** MANU 380.

**MANU_V 485-T2A**

**Metal Cutting and Machine Tool Vibrations**

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

- **Prerequisite:** MANU 380.

**MANU_V 485-201**

**Metal Cutting and Machine Tool Vibrations**

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

- **Prerequisite:** MANU 380.

**MANU_V 485-T2A**

**Metal Cutting and Machine Tool Vibrations**

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

- **Prerequisite:** MANU 380.

**MANU_V 485-201**

**Metal Cutting and Machine Tool Vibrations**

- **In Person Learning**
- **3:00 p.m. - 4:00 p.m.**

- **Prerequisite:** MANU 380.

**MANU_V 485-T2A**

**Metal Cutting and Machine Tool Vibrations**

- **In Person Learning**
- **4:00 p.m. - 5:00 p.m.**

- **Prerequisite:** MANU 380.

**MANU_V 485-201**

**Metal Cutting and Machine Tool Vibrations**

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

- **Prerequisite:** MANU 380.

**MANU_V 485-T2A**

**Metal Cutting and Machine Tool Vibrations**

- **In Person Learning**
- **6:00 p.m. - 7:00 p.m.**

- **Prerequisite:** MANU 380.

**MANU_V 485-201**

**Metal Cutting and Machine Tool Vibrations**

- **In Person Learning**
- **7:00 p.m. - 8:00 p.m.**

- **Prerequisite:** MANU 380.
Differential Calculus with Applications (W2)

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

Differential Calculus with Applications (W2)

In Person Learning
10:00 a.m. - 12:00 p.m.

In Person Learning
2:00 p.m. - 4:00 p.m.

Differential Calculus with Applications (W1)

In Person Learning
8:00 a.m. - 10:00 a.m.

Differential Calculus with Applications (W1)

In Person Learning
2:00 p.m. - 4:00 p.m.

Differential Calculus with Applications (W1)

In Person Learning
Thu
8:00 a.m. - 10:00 a.m.

Differential Calculus with Applications (W1)

In Person Learning
Thu
8:00 a.m. - 10:00 a.m.

Differential Calculus with Applications (W1)

In Person Learning
Thu
8:00 a.m. - 10:00 a.m.

Differential Calculus with Applications (W1)

In Person Learning
Thu
8:00 a.m. - 10:00 a.m.

Differential Calculus with Applications (W1)

In Person Learning
Thu
8:00 a.m. - 10:00 a.m.

Differential Calculus with Applications (W1)

In Person Learning
Thu
8:00 a.m. - 10:00 a.m.

Differential Calculus with Applications (W1)

In Person Learning
Thu
8:00 a.m. - 10:00 a.m.

Differential Calculus with Applications (W1)

In Person Learning
Thu
8:00 a.m. - 10:00 a.m.

Differential Calculus with Applications (W1)

In Person Learning
Thu
8:00 a.m. - 10:00 a.m.

Differential Calculus with Applications (W1)

In Person Learning
Thu
8:00 a.m. - 10:00 a.m.

Differential Calculus with Applications (W1)

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Differential Calculus with Applications (W1)

In Person Learning
Thu
8:00 a.m. - 10:00 a.m.

Differential Calculus with Applications (W1)

In Person Learning
Thu
8:00 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.

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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<th>Credits</th>
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<th>Location</th>
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<td>A36</td>
<td>Differential Calculus with Applications</td>
<td>WI</td>
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<td>A43</td>
<td>Differential Calculus with Applications</td>
<td>WI</td>
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<td>MATH V 100-B13</td>
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<td>MATH V 100-B19</td>
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<td>MATH V 100-B14</td>
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<td>Differential Calculus with Applications</td>
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<td>MATH V 100-B17</td>
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<td>B17</td>
<td>Differential Calculus with Applications</td>
<td>WI</td>
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In Person Learning

W1 11:00 a.m. - 12:00 p.m. Differential Calculus with Applications

W1 2:00 p.m. - 3:00 p.m. Differential Calculus with Applications

W1 3:00 p.m. - 4:00 p.m. Integral Calculus with Applications

W1 9:00 a.m. - 10:00 a.m. Integral Calculus with Applications

W1 12:00 p.m. - 2:00 p.m. Differential Calculus with Applications

W2 2:00 p.m. - 4:00 p.m. Integral Calculus with Applications

W2 8:00 a.m. - 10:00 a.m. Integral Calculus with Applications

W2 10:00 a.m. - 12:00 p.m. Integral Calculus with Applications

W2 12:00 p.m. - 2:00 p.m. Integral Calculus with Applications
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<th>Course Title</th>
<th>Days</th>
<th>Times</th>
<th>Location</th>
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<td>MATH 101-A11</td>
<td>Integral Calculus with Applications</td>
<td>Mon, Wed, Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<td>MATH 101-A12</td>
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<td>10:00 a.m. - 11:00 a.m.</td>
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<td>MATH 101-A13</td>
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<td>Mon, Wed, Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<td>MATH 101-A14</td>
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<td>Mon, Wed, Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<td>MATH 101-A15</td>
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<td>MATH 101-A16</td>
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<td>Mon, Wed, Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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<td>MATH 101-A17</td>
<td>Integral Calculus with Applications</td>
<td>Mon, Wed, Fri</td>
<td>3:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>MATH 101-A18</td>
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<td>Mon, Wed, Fri</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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</table>

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

Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

FAQ: 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]
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.

In Person Learning

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mon 2:00 p.m. - 3:00 p.m.
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<th>Course Code</th>
<th>Title</th>
<th>Location</th>
<th>Days</th>
<th>Time</th>
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<tr>
<td>MATH V 101-B46</td>
<td>Integral Calculus with Applications</td>
<td>W2</td>
<td>Thu</td>
<td>2:00 p.m. - 3:00 p.m.</td>
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</table>
| MATH V 101-B11 | Integral Calculus with Applications | W2 | Tue | In Person Learning
| W2 | Mon | 9:00 a.m. - 10:00 a.m. |
| MATH V 101-B12 | Integral Calculus with Applications | W2 | Tue | In Person Learning
| W2 | Tue | 9:00 a.m. - 10:00 a.m. |
| MATH V 101-B13 | Integral Calculus with Applications | W2 | Tue | In Person Learning
| W2 | Tue | 9:00 a.m. - 10:00 a.m. |
| MATH V 101-B14 | Integral Calculus with Applications | W2 | Tue | In Person Learning
| W2 | Tue | 12:00 p.m. - 1:00 p.m. |
| MATH V 101-B15 | Integral Calculus with Applications | W2 | Tue | In Person Learning
| W2 | Tue | 1:00 p.m. - 2:00 p.m. |
| MATH V 101-B16 | Integral Calculus with Applications | W2 | Thu | In Person Learning
| W2 | Thu | 8:00 a.m. - 9:00 a.m. |
| MATH V 101-B17 | Integral Calculus with Applications | W2 | Thu | In Person Learning
| W2 | Thu | 9:00 a.m. - 10:00 a.m. |
| MATH V 101-B18 | Integral Calculus with Applications | W2 | Thu | In Person Learning
| W2 | Thu | 10:00 a.m. - 11:00 a.m. |
| MATH V 101-B21 | Integral Calculus with Applications | W2 | Mon | In Person Learning
| W2 | Mon | 1:00 p.m. - 2:00 p.m. |
| MATH V 101-B22 | Integral Calculus with Applications | W2 | Thu | In Person Learning
| W2 | Thu | 11:00 a.m. - 12:00 p.m. |
| MATH V 101-B23 | Integral Calculus with Applications | W2 | Thu | In Person Learning
| W2 | Thu | 12:00 p.m. - 1:00 p.m. |
| MATH V 101-B24 | Integral Calculus with Applications | W2 | Thu | In Person Learning
| W2 | Thu | 1:00 p.m. - 2:00 p.m. |
| MATH V 101-B25 | Integral Calculus with Applications | W2 | Fri | In Person Learning
| W2 | Fri | 9:00 a.m. - 10:00 a.m. |
| MATH V 101-B26 | Integral Calculus with Applications | W2 | Fri | In Person Learning
| W2 | Fri | 11:00 a.m. - 12:00 p.m. |
| MATH V 101-B27 | Integral Calculus with Applications | W2 | Mon | In Person Learning
| W2 | Mon | 11:00 a.m. - 12:00 p.m. |
| MATH V 101-B28 | Integral Calculus with Applications | W2 | Tue | In Person Learning
| W2 | Tue | 2:00 p.m. - 3:00 p.m. |

**Course Description:**
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/credit-exclusion-lists

**Prerequisites:**
One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

**Restrictions:**
The Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/credit-exclusion-lists

**Schools/Departments:**
Bachelor of Science
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.

In Person Learning

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

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

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

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

Fri 12:00 a.m. - 1:00 a.m.

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

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

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

Sat 3:00 p.m. - 4:00 p.m.
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<th>Term</th>
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<td>Fall</td>
<td>110</td>
<td>Differential Calculus</td>
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<td>12:00 p.m. - 1:00 p.m.</td>
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<td>MATH 120-001</td>
<td>Winter</td>
<td>120</td>
<td>Honours Differential Calculus</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>Mon Tue Wed Fri</td>
<td>In Person Learning</td>
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**MATH 110-001 Differential Calculus**

- Topics as for MATH 100, but including relevant topics from algebra, geometry, functions, trigonometry, logarithms, and exponentials: [3-0-1.5; 3-0-1.5] Prerequisite: A grade of 65% or higher in BC Principles of Mathematics 12 or Pre-calculus 12.

- The definite integral, integration techniques, applications, modelling, infinite series. Please consult the Faculty of Science Credit Exclusion List: [3-0-0] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

- The definite integral, integration techniques, applications, modelling, infinite series. Please consult the Faculty of Science Credit Exclusion List: [3-0-0] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

- The definite integral, integration techniques, applications, modelling, infinite series. Please consult the Faculty of Science Credit Exclusion List: [3-0-0] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

- The definite integral, integration techniques, applications, modelling, infinite series. Please consult the Faculty of Science Credit Exclusion List: [3-0-0] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

- The definite integral, integration techniques, applications, modelling, infinite series. Please consult the Faculty of Science Credit Exclusion List: [3-0-0] Prerequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

**MATH 120-001 Honours Differential Calculus**

- Limits, derivatives, Mean Value Theorem and applications, elementary functions, optimization, Taylor series, linear approximations. Please consult the Faculty of Science Credit Exclusion List: [3-0-0] Prerequisite: A grade of 65% or higher in BC Principles of Mathematics 12 or Pre-calculus 12, or (b) permission from the Mathematics Department Head.
MATH 120-102
Honours Differential Calculus

Monday, Wednesday, Friday 2:00 p.m. - 3:00 p.m.

In Person Learning

Prerequisite grade requirement: 80% in MATH 104, MATH 105, MATH 108.

Corequisite: MATH 101

Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists

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

[3-1*-0]

MATH 121-201
Honours Integral Calculus

Monday, Wednesday, Friday 10:00 a.m. - 11:00 a.m.

In Person Learning

Prerequisite grade requirement: 80% in MATH 152, MATH 104, MATH 105, MATH 108.

Corequisite: MATH 101

Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists

[3-1*-0]

MATH 122-202
Linear Systems

Wednesday, Thursday 12:00 p.m. - 1:00 p.m.

In Person Learning

Prerequisite grade requirement: 80% in MATH 152, MATH 104, MATH 105, MATH 108.

Corequisite: MATH 101

Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists

[3-1*-0]

MATH 123-203
Linear Systems

Wednesday, Thursday 1:00 p.m. - 2:00 p.m.

In Person Learning

Prerequisite grade requirement: 80% in MATH 152, MATH 104, MATH 105, MATH 108.

Corequisite: MATH 101

Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists

[3-1*-0]

MATH 124-204
Linear Systems

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

In Person Learning

Prerequisite grade requirement: 80% in MATH 152, MATH 104, MATH 105, MATH 108.

Corequisite: MATH 101

Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists

[3-1*-0]

MATH 125-205
Linear Systems

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

In Person Learning

Prerequisite grade requirement: 80% in MATH 152, MATH 104, MATH 105, MATH 108.

Corequisite: MATH 101

Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists

[3-1*-0]

MATH 126-206
Linear Systems

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

In Person Learning

Prerequisite grade requirement: 80% in MATH 152, MATH 104, MATH 105, MATH 108.

Corequisite: MATH 101

Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists

[3-1*-0]

MATH 127-207
Linear Systems

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

In Person Learning

Prerequisite grade requirement: 80% in MATH 152, MATH 104, MATH 105, MATH 108.

Corequisite: MATH 101

Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists

[3-1*-0]

MATH 128-208
Linear Systems

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

In Person Learning

Prerequisite grade requirement: 80% in MATH 152, MATH 104, MATH 105, MATH 108.

Corequisite: MATH 101

Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists

[3-1*-0]

MATH 129-209
Linear Systems

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

In Person Learning

Prerequisite grade requirement: 80% in MATH 152, MATH 104, MATH 105, MATH 108.

Corequisite: MATH 101

Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists

[3-1*-0]
20 and 3D geometry, vectors and matrices, eigenvalues and vibration, physical applications. Laboratories demonstrate computer solutions of large systems. Please consult the Faculty of Science Credit Exclusion List: 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 Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calc 12.

**MATH V 152-L30**

20 and 3D geometry, vectors and matrices, eigenvalues and vibration, physical applications. Laboratories demonstrate computer solutions of large systems. Please consult the Faculty of Science Credit Exclusion List: 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 Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calc 12.

**MATH V 152-L2K**

20 and 3D geometry, vectors and matrices, eigenvalues and vibration, physical applications. Laboratories demonstrate computer solutions of large systems. Please consult the Faculty of Science Credit Exclusion List: 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 Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calc 12.

**MATH V 152-LAB**

20 and 3D geometry, vectors and matrices, eigenvalues and vibration, physical applications. Laboratories demonstrate computer solutions of large systems. Please consult the Faculty of Science Credit Exclusion List: 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 Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calc 12.

**MATH V 180-101**

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 Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calc 12.

**MATH V 180-102**

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 Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calc 12.

**MATH V 180-D1A**

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 Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calc 12.

**MATH V 180-D10**

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 Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calc 12.

**MATH V 180-D1C**

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 Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calc 12.

**MATH V 180-D1D**

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 Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calc 12.

**MATH V 180-D1G**

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 Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calc 12.

**MATH V 180-D1H**

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 Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calc 12.

**MATH V 180-DFS**

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 Examination. [3-0-1.5] Prerequisite: A grade of 80% or higher in BC Principles of Mathematics 12 or Pre-calc 12.

**MATH V 152-L2K**

Linear Systems

In Person Learning

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

**MATH V 152-L2I**

Linear Systems

In Person Learning

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

**MATH V 152-L30**

Linear Systems

In Person Learning

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

**MATH V 152-LAB**

Linear Systems

In Person Learning

Arranged

Arranged

**MATH V 152-L30**

Linear Systems

In Person Learning

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

**MATH V 180-101**

Differential Calculus with Applications

In Person Learning

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

**MATH V 180-102**

Differential Calculus with Applications

In Person Learning

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

**MATH V 180-D10**

Differential Calculus with Applications

In Person Learning

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

**MATH V 180-D1C**

Differential Calculus with Applications

In Person Learning

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

**MATH V 180-D1D**

Differential Calculus with Applications

In Person Learning

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

**MATH V 180-D1G**

Differential Calculus with Applications

In Person Learning

Thu 10:06 a.m. - 12:30 p.m.

**MATH V 180-D1H**

Differential Calculus with Applications

In Person Learning

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

**MATH V 180-DFS**

Differential Calculus with Applications

In Person Learning

Fri 9:00 a.m. - 12:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Instructor</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 100</td>
<td>Differential Calculus with Applications</td>
<td></td>
<td>3</td>
<td>MATH 121, 105, 103, 102, 101, 104</td>
<td>Functions, derivatives, integral, curve sketching growth functions, volume calculations. Only for credit in the Faculty of Forestry. Students with credit for MATH 100, 102, 104, 120, 121 cannot in the same term or later terms obtain credit for MATH 100: (2-0-2) Preparatory Principles of Mathematics 12 in Pre-calculus 12 and registration in the B.S.F. or B.Sc.N. programs.</td>
</tr>
<tr>
<td>MATH 101</td>
<td>Calculus Survey</td>
<td></td>
<td>3</td>
<td>MATH 121, 105, 103, 102, 101, 104</td>
<td>Functions, derivatives, integral, curve sketching growth functions, volume calculations. Only for credit in the Faculty of Forestry. Students with credit for MATH 100, 102, 104, 120, 121 cannot in the same term or later terms obtain credit for MATH 100: (2-0-2) Preparatory Principles of Mathematics 12 in Pre-calculus 12 and registration in the B.S.F. or B.Sc.N. programs.</td>
</tr>
<tr>
<td>MATH 102</td>
<td>Calculus Survey</td>
<td></td>
<td>3</td>
<td>MATH 121, 105, 103, 102, 101, 104</td>
<td>Functions, derivatives, integral, curve sketching growth functions, volume calculations. Only for credit in the Faculty of Forestry. Students with credit for MATH 100, 102, 104, 120, 121 cannot in the same term or later terms obtain credit for MATH 100: (2-0-2) Preparatory Principles of Mathematics 12 in Pre-calculus 12 and registration in the B.S.F. or B.Sc.N. programs.</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Calculus Survey</td>
<td></td>
<td>3</td>
<td>MATH 121, 105, 103, 102, 101, 104</td>
<td>Functions, derivatives, integral, curve sketching growth functions, volume calculations. Only for credit in the Faculty of Forestry. Students with credit for MATH 100, 102, 104, 120, 121 cannot in the same term or later terms obtain credit for MATH 100: (2-0-2) Preparatory Principles of Mathematics 12 in Pre-calculus 12 and registration in the B.S.F. or B.Sc.N. programs.</td>
</tr>
<tr>
<td>MATH 104</td>
<td>Calculus Survey</td>
<td></td>
<td>3</td>
<td>MATH 121, 105, 103, 102, 101, 104</td>
<td>Functions, derivatives, integral, curve sketching growth functions, volume calculations. Only for credit in the Faculty of Forestry. Students with credit for MATH 100, 102, 104, 120, 121 cannot in the same term or later terms obtain credit for MATH 100: (2-0-2) Preparatory Principles of Mathematics 12 in Pre-calculus 12 and registration in the B.S.F. or B.Sc.N. programs.</td>
</tr>
</tbody>
</table>

For more information, 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](https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists).
Math 217.101: Multivariable Vector Calculus

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: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 011.

In Person Learning
Tue Thu
9:30 a.m. - 11:00 a.m.

Math 215.101: Elementary Differential Equations I

First-order equations; linear equations; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 011 and one of MATH 102, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 201, MATH 202, MATH 203, MATH 217.

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

Math 215.102: Elementary Differential Equations I

First-order equations; linear equations; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 011 and one of MATH 102, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 201, MATH 202, MATH 203, MATH 217.

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

Math 215.104: Elementary Differential Equations I

First-order equations; linear equations; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 011 and one of MATH 102, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 201, MATH 202, MATH 203, MATH 217.

In Person Learning
Mon Wed Fri
3:00 p.m. - 4:00 p.m.

Math 215.101: Elementary Differential Equations I

First-order equations; linear equations; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 011 and one of MATH 102, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 201, MATH 202, MATH 203, MATH 217.

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


First-order equations; linear equations; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 011 and one of MATH 102, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 201, MATH 202, MATH 203, MATH 217.

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

Math 215.204: Elementary Differential Equations I

First-order equations; linear equations; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 011 and one of MATH 102, MATH 221, MATH 223.

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

Math 215.201: Elementary Differential Equations I

First-order equations; linear equations; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 011. Corequisite: One of MATH 200, MATH 201, MATH 202, MATH 203, MATH 217.

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


First-order equations; linear equations; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 011 and one of MATH 102, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 201, MATH 202, MATH 203, MATH 217.

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

Math 215.204: Elementary Differential Equations I

First-order equations; linear equations; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 011 and one of MATH 102, MATH 221, MATH 223.

In Person Learning
Mon Wed Fri
3:00 p.m. - 4:00 p.m.

Math 215.201: Elementary Differential Equations I

First-order equations; linear equations; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 011 and one of MATH 102, MATH 221, MATH 223.

In Person Learning
Mon Wed Fri
3:00 p.m. - 4:00 p.m.


First-order equations; linear equations; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 011 and one of MATH 102, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 201, MATH 202, MATH 203, MATH 217.

In Person Learning
Mon Wed Fri
3:00 p.m. - 4:00 p.m.

Math 215.204: Elementary Differential Equations I

First-order equations; linear equations; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 011 and one of MATH 102, MATH 221, MATH 223.

In Person Learning
Mon Wed Fri
3:00 p.m. - 4:00 p.m.

Math 215.201: Elementary Differential Equations I

First-order equations; linear equations; Laplace transforms; numerical methods; trajectory analysis of plane nonlinear systems. Applications of these topics will be emphasized. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-lists. [3-0-0] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 011 and one of MATH 102, MATH 221, MATH 223.

In Person Learning
Mon Wed Fri
3:00 p.m. - 4:00 p.m.
MATH 220-002
Mathematical Proof
W2
Sets and functions; induction; cardinality; properties of the real numbers; sequences, series, and limits; logic. Structure, style, and clarity of proofs emphasized throughout. (3-0-0) Prerequisite: Either (a) score of 64% or higher in one of MATH 101, MATH 105, SCI 005 or (b) one of MATH 121, MATH 120, MATH 217, MATH 226, MATH 253, MATH 254.
In Person Learning
Tue Thu
10:00 a.m. - 11:00 a.m.

MATH 220-004
Mathematical Proof
W2
Sets and functions; induction; cardinality; properties of the real numbers; sequences, series, and limits; logic. Structure, style, and clarity of proofs emphasized throughout. (3-0-0) Prerequisite: Either (a) score of 64% or higher in one of MATH 101, MATH 105, SCI 005 or (b) one of MATH 121, MATH 120, MATH 217, MATH 226, MATH 253, MATH 254.
In Person Learning
Mon Wed Fri
10:00 a.m. - 11:00 a.m.

MATH 221-101
Matrix Algebra
WL
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-sciences/credit-exclusion-lists/3-0-0 Prerequisite: Either (a) one of MATH 101, MATH 105, SCI 005, MATH 110, MATH 120, MATH 180, SCI 005 or (b) advanced credit for MATH 100.
In Person Learning
Tue Thu
12:00 p.m. - 1:00 p.m.

MATH 221-102
Matrix Algebra
WL
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-sciences/credit-exclusion-lists/3-0-0 Prerequisite: Either (a) one of MATH 101, MATH 105, SCI 005, MATH 110, MATH 120, MATH 180, SCI 005 or (b) advanced credit for MATH 100.
In Person Learning
Mon Wed Fri
10:00 a.m. - 11:00 a.m.

MATH 221-106
Matrix Algebra
WL
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-sciences/credit-exclusion-lists/3-0-0 Prerequisite: Either (a) one of MATH 101, MATH 105, MATH 110, MATH 120, MATH 180, SCI 005 or (b) advanced credit for MATH 100.
In Person Learning
Mon Wed Fri
12:00 p.m. - 1:00 p.m.

MATH 223-101
Honours Linear Algebra
WL
Functions of several variables: limits, continuity, differentiability, implicit functions; Taylor's theorem in several variables. Linear algebra: vector spaces, linear independence, basis, dimension, orthogonality, 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-sciences/credit-exclusion-lists/3-0-0 Prerequisite: Either (a) a score of 64% or higher in one of MATH 101, MATH 105, MATH 110, MATH 120, MATH 180, SCI 005 or (b) advanced credit for MATH 100.
In Person Learning
Mon Wed Fri
10:00 a.m. - 11:00 a.m.

MATH 226-101
Advanced Calculus I
W1
Parametrisation of curves and surfaces; line and surface integrals; theorems of Green, Gauss, Stokes; applications to physics and/or introduction to differential forms. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-sciences/credit-exclusion-lists/3-0-0 Prerequisite: Either (a) one of MATH 100, MATH 105, SCI 005, MATH 110, MATH 120, MATH 180, SCI 005 or (b) advanced credit for MATH 100.
In Person Learning
Mon Wed Fri
10:00 a.m. - 11:00 a.m.

MATH 227-201
Advanced Calculus II
W2
A variety of topics in mathematics, showcasing its beauty and utility. Treated for a general audience of students whose degrees have no mathematics requirements, but who may be curious about practical and recreational mathematics. Not for credit in the Faculty of Science. Students who obtain UBC credit for any other mathematics course cannot receive the same or later terms obtain credit for MATH 226. (3-0-0) Prerequisite: MATH 226. 220. Pre-registration grade requirement: 68% in MATH 226B.
In Person Learning
Mon Wed Fri
10:00 a.m. - 11:00 a.m.

MATH 230-101
Multivariable Mathematics
W2
Partial and directional derivatives; maxima and minima; Lagrange multipliers and second derivative test; multiple integrals and applications. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-sciences/credit-exclusion-lists/3-0-0 Prerequisite: Either (a) a score of 64% or higher in one of MATH 101, MATH 105, MATH 110, MATH 120, MATH 180, SCI 005 or (b) advanced credit for MATH 100.
In Person Learning
Mon Wed Fri
10:00 a.m. - 11:00 a.m.

MATH 230-108
Multivariable Calculus
W1
Partial differentiation, extreme values, multiple integration, vector fields, line and surface integrals, the divergence and Stokes' theorem, applications to fluid mechanics. Vector spaces, basis, determinants, orthogonality, matrix diagonalization. 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-sciences/credit-exclusion-lists/3-0-0 Prerequisite: Either (a) one of MATH 100, MATH 105, SCI 005, MATH 110, MATH 120, MATH 180 or (b) advanced credit for MATH 100.
In Person Learning
Mon Wed Fri
10:00 a.m. - 11:00 a.m.

MATH 231-102
Ordinary Differential Equations
W1
Review of linear systems; introduction to systems; phase plane analysis; linearization; numerical methods. Please 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: One of MATH 101, MATH 105, SCI 005, MATH 110, MATH 120, MATH 180, SCI 005 or one of MATH 121, MATH 217, MATH 226, MATH 253, MATH 254.
In Person Learning
Mon Wed Fri
10:00 a.m. - 11:00 a.m.
Review of linear systems; nonlinear equations and applications; phase-plane analysis; Laplace transforms; 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-list-3-0-0?& course=MATH_217, MATH 226, MATH 253, MATH 263.

**Math 121**

Introduction to partial differential equations; Fourier series; the heat, wave and potential equations; boundary-value problems; numerical methods. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list-3-0-0?& course=MATH_121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 256, ELEC 211.

**Math 264**

Linear ordinary differential equations, Laplace transforms, Fourier series and expansion of variables for linear partial differential equations. Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list-3-0-0?& course=MATH_264 content is strongly coupled to BMEG 220 and ELEC 211 with topics and numerical and graphical methods. Emphasis on mechanical engineering applications. [3-0-1*] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 256, ELEC 211.

**Math 258**

Divergence, gradient, curl, theorems of Gauss and Stokes. Applications to Electrostatics and Magnetostatics. MATH 264 content is strongly coupled to BMEG 220 and ELEC 211 with topics and numerical and graphical methods. Emphasis on mechanical engineering applications. [3-0-1*] Prerequisite: One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001 and one of MATH 152, MATH 221, MATH 223. Corequisite: One of MATH 200, MATH 256, ELEC 211.

**Math 257**

Introductions to partial differential equations; Fourier series; the heat, wave and potential equations; boundary-value problems; numerical methods. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list-3-0-0?& course=MATH_257, MATH 258, ELEC 256, MATH 258.

**Math 256**

Introduction to partial differential equations; Fourier series; the heat, wave and potential equations; boundary-value problems; numerical methods. Please consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list-3-0-0?& course=MATH_256-101, MATH_256-102, MATH_256-103.

**Math 265**

Partial Differential Equations

**Math 258**

Differential Equations for Mechanical Engineering

**Math 259**

Introduction to Complex Variables

**Math 258-LIA**

Introduction to Complex Variables

**Math 264**

Vector Calculus for Electrical Engineering

**Math 264**

Vector Calculus for Electrical Engineering

**Math 264**

Vector Calculus for Electrical Engineering

**Math 300**

Introduction to Complex Variables

**Math 300**

Introduction to Complex Variables

**Math 301**

Applied Analysis

**Math 301**

Applied Analysis

**Math 217**

Linear ordinary differential equations, Laplace transforms, Fourier series and expansion of variables for linear partial differential equations. Consult the Faculty of Science Credit Exclusion List: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list-3-0-0?& course=MATH_217, MATH 226, MATH 253, MATH 263.

**Math 216**

Differential Equations

**Math 216**

Differential Equations

**Math 216**

Differential Equations
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Title</th>
<th>Credits</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH_V 316-101</td>
<td>202</td>
<td>101</td>
<td>Introductory Probability</td>
<td>W1</td>
<td>Basic notions of probability, random variables, expectation and conditional expectation, limit theorems. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science?credit-exclusion-lists=3-0-0">link</a> Prerequisite: One of MATH 220, MATH 217, MATH 226, MATH 253, MATH 254. Equivalency: STAT 282</td>
<td>3-0-0</td>
</tr>
<tr>
<td>MATH_V 316-102</td>
<td>203</td>
<td>103</td>
<td>Introductory Probability</td>
<td>W1</td>
<td>Basic notions of probability, random variables, expectation and conditional expectation, limit theorems. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science?credit-exclusion-lists=3-0-0">link</a> Prerequisite: One of MATH 220, MATH 217, MATH 226, MATH 253, MATH 254. Equivalency: STAT 282</td>
<td>3-0-0</td>
</tr>
<tr>
<td>MATH_V 316-103</td>
<td>204</td>
<td>103</td>
<td>Introductory Probability</td>
<td>W1</td>
<td>Basic notions of probability, random variables, expectation and conditional expectation, limit theorems. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science?credit-exclusion-lists=3-0-0">link</a> Prerequisite: One of MATH 220, MATH 217, MATH 226, MATH 253, MATH 254. Equivalency: STAT 282</td>
<td>3-0-0</td>
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<tr>
<td>MATH_V 316-201</td>
<td>205</td>
<td>201</td>
<td>Introductory Probability</td>
<td>W2</td>
<td>Basic notions of probability, random variables, expectation and conditional expectation, limit theorems. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science?credit-exclusion-lists=3-0-0">link</a> Prerequisite: One of MATH 220, STAT 202.</td>
<td>3-0-0</td>
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<tr>
<td>MATH_V 316-202</td>
<td>206</td>
<td>202</td>
<td>Introductory Stochastic Processes</td>
<td>W2</td>
<td>Functions of a complex variable, Cauchy-Riemann equations, contour integration, Laurent series, residues, integrals of multi-valued functions, Fourier transforms. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science?credit-exclusion-lists=3-0-0">link</a> Prerequisite: One of MATH 126, MATH 220, MATH 253, MATH 254. Corequisite: One of MATH 256, MATH 257, MATH 258, MATH 268, MATH 358, PHYS 242.</td>
<td>3-0-0</td>
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<tr>
<td>MATH_V 316-203</td>
<td>207</td>
<td>203</td>
<td>Introductory Stochastic Processes</td>
<td>W2</td>
<td>Applications of linear algebra to problems in science and engineering; use of computer algebra systems for solving problems in linear algebra.</td>
<td>3-0-0</td>
</tr>
<tr>
<td>MATH_V 316-204</td>
<td>208</td>
<td>204</td>
<td>Introductory Stochastic Processes</td>
<td>W2</td>
<td>Applications of linear algebra to problems in science and engineering; use of computer algebra systems for solving problems in linear algebra.</td>
<td>3-0-0</td>
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<tr>
<td>MATH_V 316-205</td>
<td>209</td>
<td>205</td>
<td>Introductory Stochastic Processes</td>
<td>W2</td>
<td>Applications of linear algebra to problems in science and engineering; use of computer algebra systems for solving problems in linear algebra.</td>
<td>3-0-0</td>
</tr>
<tr>
<td>MATH_V 316-206</td>
<td>210</td>
<td>210</td>
<td>Introductory Stochastic Processes</td>
<td>W2</td>
<td>Applications of linear algebra to problems in science and engineering; use of computer algebra systems for solving problems in linear algebra.</td>
<td>3-0-0</td>
</tr>
<tr>
<td>MATH_V 316-207</td>
<td>211</td>
<td>211</td>
<td>Introductory Stochastic Processes</td>
<td>W2</td>
<td>Applications of linear algebra to problems in science and engineering; use of computer algebra systems for solving problems in linear algebra.</td>
<td>3-0-0</td>
</tr>
<tr>
<td>MATH_V 316-208</td>
<td>212</td>
<td>212</td>
<td>Introductory Stochastic Processes</td>
<td>W2</td>
<td>Applications of linear algebra to problems in science and engineering; use of computer algebra systems for solving problems in linear algebra.</td>
<td>3-0-0</td>
</tr>
<tr>
<td>MATH_V 316-209</td>
<td>213</td>
<td>213</td>
<td>Introductory Stochastic Processes</td>
<td>W2</td>
<td>Applications of linear algebra to problems in science and engineering; use of computer algebra systems for solving problems in linear algebra.</td>
<td>3-0-0</td>
</tr>
</tbody>
</table>
Introduction to Group Theory

Real Variables I

Real Variables II

Introduction to Discrete Mathematics

Algebra and Coding Theory

Introduction to Linear Programming

Introduction to Mathematical Modelling

Calculus IV

Probability with Physical Applications

In Person Learning

Mon Wed Fri

Tue Thu

In Person Learning

Tue Thu

In Person Learning

Mon Wed Fri

Mon Wed

In Person Learning

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

2:00 p.m. - 3:30 p.m.

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

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

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

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

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

12:00 noon - 1:30 p.m.

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

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

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

2:00 p.m. - 3:30 p.m.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

2:00 p.m. - 3:00 p.m.
MATH 401:101 Introduction to Mathematical Biology

Mathematical modelling of basic biological processes in ecology, physiology, neuroscience and genetics. Dynamic behavior of difference equations, differential equations, and partial differential equations, explored with reference to common biological examples. [3-0-0] Prerequisite: One of MATH 301, MATH 315, MATH 256, MATH 258. In Person Learning Mon Wed Fri 2:00 p.m. - 3:00 p.m.

MATH 408:001 MATH 408:002 Co-operative Work Placement I

Approved and supervised technical work experience involving mathematics in industry for a minimum of 3 months. Technical report required. Restricted to students admitted to the Mathematics Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

MATH 409:001 MATH 409:002 Co-operative Work Placement II

Approved and supervised technical work experience involving mathematics in industry for a minimum of 3 months. Technical report required. Restricted to students admitted to the Mathematics Co-operative Education Program. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

MATH 410:101 Applied Partial Differential Equations

Separation of variables, first order equations, Sturm-Liouville theory, integral transforms methods. [3-0-0] Prerequisite: One of MATH 300, MATH 305 and one of MATH 254, MATH 255, MATH 316, MATH 358, MATH 359, PHYS 311. In Person Learning Tue Thu 9:30 a.m. - 12:00 a.m.

MATH 410:201 Applied Partial Differential Equations

Separation of variables, first order equations, Sturm-Liouville theory, integral transforms methods. [3-0-0] Prerequisite: One of MATH 300, MATH 305 and one of MATH 254, MATH 255, MATH 316, MATH 358, MATH 359, PHYS 311. In Person Learning Tue Thu 9:30 a.m. - 12:00 a.m.

MATH 416:201 Variational and Approximate Methods in Applied Mathematics

Variational and Green's function methods for ordinary and partial differential equations, introduction to finite difference, finite element and boundary element methods. See Faculty of Science credit exclusion list: https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/credit-exclusion-lists [3-0-0] Prerequisite: Either (a) a score of 80% or higher in one of MATH 225, MATH 257, MATH 316, MATH 258, PHYS 312 or (b) MATH 400. In Person Learning Tue Thu 3:00 p.m. - 4:00 p.m.

MATH 418:101 Probability

Random walk, Markov chains, branching processes, Poisson processes, continuous time Markov chains, martingales, Brownian motion. [3-0-0] Prerequisite: MATH310. In Person Learning Tue Thu 3:00 p.m. - 4:00 p.m.

MATH 420:101 Real Analysis I

Real analysis of real numbers, sequences, functions, continuity, differentiation, Riemann integral. [3-0-0] Prerequisite: MATH 321. Corequisite: MATH 420. In Person Learning Mon Wed Fri 9:30 a.m. - 11:00 a.m.

MATH 421:101 Real Analysis II

Lebesgue spaces, convergence, uniform convergence, Fourier series. [3-0-0] Prerequisite: MATH 420. In Person Learning Mon Wed Fri 9:30 a.m. - 11:00 a.m.

MATH 422:101 Fields and Galois Theory

Field extensions, the Galois correspondence, finite fields, insolubility in radicals, ruler and compass constructions, additional topics chosen by instructor. [3-0-0] Prerequisite: MATH 323. In Person Learning Tue Thu 3:00 p.m. - 5:00 p.m.

MATH 423:101 Commutative Algebra

Commutative algebra, homological algebra or representation theory of finite groups. [3-0-0] Prerequisite: MATH 323 and a score of 60% or higher in one of MATH 412, MATH 422. In Person Learning Tue Thu 3:00 p.m. - 5:00 p.m.

MATH 424:101 Classical Differential Geometry

Smooth manifolds, smooth maps, immersions and submersions, vector fields, vector bundles, tangent and cotangent bundles, tensors and differential forms, orientation of manifolds, integration of forms, and selected topics. [3-0-0] Prerequisite: One of MATH 221, MATH 223 and one of MATH 217, MATH 256, MATH 258 and one of MATH 310, MATH 320. In Person Learning Mon Wed Fri 12:00 p.m. - 1:00 p.m.

MATH 398:001 MATH 398:002 Co-operative Work Placement I

In Person Learning

MATH 399:001 MATH 399:002 Co-operative Work Placement II

In Person Learning

MATH 418-101 Harmonic Analysis I

Harmonic analysis on Euclidean spaces, with applications to number theory, partial differential equations and geometric measure theory. [3-0-0] Prerequisite: MATH 300 and a score of 80% or higher in MATH 301. Corequisite: MATH 400. In Person Learning Mon Wed Fri 12:00 p.m. - 1:00 p.m.

MATH 420:101 Numerical Methods for Differential Equations

Separation of variables, first order equations, Sturm-Liouville theory, integral transforms methods. [3-0-0] Prerequisite: One of MATH 300, MATH 305 and one of MATH 254, MATH 255, MATH 316, MATH 358, MATH 359, PHYS 312. In Person Learning Tue Thu 3:00 p.m. - 4:00 p.m.

MATH 399-001 MATH 399-002 Co-operative Work Placement II

In Person Learning

MATH 406-201 Harmonic Analysis I

Harmonic analysis on Euclidean spaces, with applications to number theory, partial differential equations and geometric measure theory. [3-0-0] Prerequisite: MATH 300 and a score of 80% or higher in MATH 301. Corequisite: MATH 400. In Person Learning Mon Wed Fri 12:00 p.m. - 1:00 p.m.

MATH 320-101 Introduction to Modern Differential Geometry

Curvature and Gaussian curvature. Geodesics. Gauss's Theorema Egregium. [3-0-0] Prerequisite: One of MATH 217, MATH 223 and one of MATH 310, MATH 320. In Person Learning Mon Wed Fri 12:00 p.m. - 1:00 p.m.

MATH 305-101 Commutative Algebra

Commutative algebra, homological algebra or representation theory of finite groups. [3-0-0] Prerequisite: MATH 323 and a score of 60% or higher in one of MATH 412, MATH 422. In Person Learning Tue Thu 3:00 p.m. - 5:00 p.m.

MATH 316-201 Classical Differential Geometry

Smooth manifolds, smooth maps, immersions and submersions, vector fields, vector bundles, tangent and cotangent bundles, tensors and differential forms, orientation of manifolds, integration of forms, and selected topics. [3-0-0] Prerequisite: One of MATH 221, MATH 223 and one of MATH 217, MATH 256, MATH 258 and one of MATH 310, MATH 320. In Person Learning Mon Wed Fri 12:00 p.m. - 1:00 p.m.

MATH 311-101 Introduction to Modern Differential Geometry

Curvature and Gaussian curvature. Geodesics. Gauss's Theorema Egregium. [3-0-0] Prerequisite: One of MATH 217, MATH 223 and one of MATH 217, MATH 256, MATH 258 and one of MATH 310, MATH 320. In Person Learning Mon Wed Fri 12:00 p.m. - 1:00 p.m.

MATH 312-101 Fields and Galois Theory

Field extensions, the Galois correspondence, finite fields, insolubility in radicals, ruler and compass constructions, additional topics chosen by instructor. [3-0-0] Prerequisite: MATH 323. In Person Learning Tue Thu 3:00 p.m. - 5:00 p.m.

MATH 310-101 Real Analysis I

Real analysis of real numbers, sequences, functions, continuity, differentiation, Riemann integral. [3-0-0] Prerequisite: MATH 321. Corequisite: MATH 420. In Person Learning Mon Wed Fri 9:30 a.m. - 11:00 a.m.

MATH 311-101 Real Analysis II

Lebesgue spaces, convergence, uniform convergence, Fourier series. [3-0-0] Prerequisite: MATH 420. In Person Learning Mon Wed Fri 9:30 a.m. - 11:00 a.m.

MATH 312-101 Fields and Galois Theory

Field extensions, the Galois correspondence, finite fields, insolubility in radicals, ruler and compass constructions, additional topics chosen by instructor. [3-0-0] Prerequisite: MATH 323. In Person Learning Tue Thu 3:00 p.m. - 5:00 p.m.

MATH 313-101 Commutative Algebra

Commutative algebra, homological algebra or representation theory of finite groups. [3-0-0] Prerequisite: MATH 323 and a score of 60% or higher in one of MATH 412, MATH 422. In Person Learning Tue Thu 3:00 p.m. - 5:00 p.m.

MATH 314-201 Classical Differential Geometry

Smooth manifolds, smooth maps, immersions and submersions, vector fields, vector bundles, tangent and cotangent bundles, tensors and differential forms, orientation of manifolds, integration of forms, and selected topics. [3-0-0] Prerequisite: One of MATH 221, MATH 223 and one of MATH 217, MATH 256, MATH 258 and one of MATH 310, MATH 320. In Person Learning Mon Wed Fri 12:00 p.m. - 1:00 p.m.
Topics in Topology

In Person Learning

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

Co-operative Work Placement IV

Illegal

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

Algebra I

498

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

Mon Wed Fri

Arranged

Arranged

Arranged

Directed Studies in Mathematics

W2

In Person Learning

In Person Learning

In Person Learning

In Person Learning

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

Prerequisite: [MATH426]

Operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: 

Approved and supervised technical work experience involving mathematics in industry for a minimum 

of 3 1/2 months. Technical report required. Restricted to students admitted to the Mathematics Co- 

operative Education Program. This course is not eligible for Credit/D/Fail grading. Prerequisite: 

MATH 361, MATH 345.

Current research and applications. [3-0-0] Prerequisite: Either (a) MATH 360 or (b) one of MATH 210, 


expansions. Boundary layer theory; matched asymptotic expansions. Multiple scale techniques. [3-0- 

0] Prerequisite: MATH 400.

Historical development of concepts and techniques in areas chosen from Geometry, Number Theory, 

Biology, Genetics, Probability, Analysis. The focus is on historically significant writings of important 

historical figures, such as Euclid, Archimedes, Gauss, Riemann, and others. Technical communication and research skills are developed. [3-0-0] Prerequisite: One of MATH 220, 

MATH 361, MATH 345, or above.

Current research topics in pure and applied mathematics are explored at the undergraduate level. 

Technical comprehension and research skills are developed. [3-0-0] Prerequisite: One of MATH 220, 

MATH 226, and 6 credits of MATH numbered 300 or above.

The problem of extending a function defined on a manifold to a larger manifold. The problem of finding a 

coordinate chart for a manifold. The problem of finding a coordinate chart for a manifold. [3-0-0] 

Prerequisite: [MATH322,MATH321].

Smooth manifolds, smooth maps, immersions and submersions, vector fields, vector bundles, tangent 

and cotangent bundles, tensors and differential forms, integration of manifolds, integration of forms, 

and selected topics. [3-0-0] Prerequisite: One of MATH 221, MATH 223 and one of MATH 217, MATH 

227, MATH 254, MATH 256, MATH 317 and one of MATH 210, MATH 220.

In Person Learning

W2

Arranged

Arranged

Arranged

Arranged

Arranged

Arranged

Arranged

Arranged

Arranged

In Person Learning

Mon Wed Fri

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

In Person Learning

Tue Thu

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

In Person Learning

Tue Thu

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

In Person Learning

W2

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

In Person Learning

W2

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

In Person Learning

W2

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

In Person Learning

W2

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

In Person Learning

W2

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

In Person Learning

W2

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

In Person Learning

W2

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

In Person Learning

W2

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

In Person Learning

W2

4:00 a.m. - 5:00 a.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Session</th>
<th>Grade Option</th>
<th>Learning Format</th>
<th>Days</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH V 507-101</td>
<td>Measure Theory and Integration</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>MATH V 508-101</td>
<td>Complex Analysis</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
</tr>
<tr>
<td>MATH V 510-201</td>
<td>Functional Analysis</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>MATH V 516-101</td>
<td>Partial Differential Equations I</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>MATH V 517-201</td>
<td>Partial Differential Equations II</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>MATH V 521-201</td>
<td>Numerical Analysis of Partial Differential Equations</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>8:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>MATH V 525-101</td>
<td>Differential Geometry I</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>MATH V 525-201</td>
<td>Differential Geometry I</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>Arranged</td>
</tr>
<tr>
<td>MATH V 526-201</td>
<td>Differential Geometry II</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>MATH V 527-201</td>
<td>Algebraic Topology I</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed Fri</td>
<td>8:30 a.m. - 10:00 a.m.</td>
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<tr>
<td>MATH V 529-201</td>
<td>Differential Topology</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>MATH V 532-201</td>
<td>Algebraic Geometry I</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>MATH V 533-201</td>
<td>Algebraic Geometry II</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>MATH V 534-101</td>
<td>Lie Theory I</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</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>MATH V 535-201</td>
<td>Lie Theory II</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>MATH V 537-201</td>
<td>Elementary Number Theory</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>MATH V 538-201</td>
<td>Algebraic Number Theory</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>Arranged</td>
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<tr>
<td>MATH V 539-201</td>
<td>Analytic Number Theory</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</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>MATH V 541-101</td>
<td>Harmonic Analysis I</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>MATH V 542-201</td>
<td>Harmonic Analysis II</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>MATH V 544-101</td>
<td>Probability I</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>MATH V 545-201</td>
<td>Probability II</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>MATH V 548-201</td>
<td>Discrete Random Processes</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td>11:00 a.m. - 12:30 p.m.</td>
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</table>
The credit value for this course will be determined in consultation with the student prior to the registration.

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Topics in Automorphic Forms

Evolutionary Dynamics

Mathematical Biology

Mathematical Electrophysiology

Nonlinear Wave Equations

Mathematics Teaching Techniques

Topics in Automorphic Forms

Topics in Geometry

Topics in Applied Mathematics

Topics in Applied Mathematics
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Instructor(s)</th>
<th>Department</th>
<th>Title</th>
<th>Credit</th>
<th>Hours</th>
<th>Days</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>MATH_V 606-D_101</td>
<td>D_101</td>
<td>D</td>
<td>Topics in Differential Equations</td>
<td>W2</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>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH_V 606-D_201</td>
<td>D_201</td>
<td>D</td>
<td>Topics in Differential Equations</td>
<td>W2</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>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH_V 607-E_101</td>
<td>E_101</td>
<td>E</td>
<td>Topics in Numerical Analysis</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>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH_V 608-B_101</td>
<td>B_101</td>
<td>B</td>
<td>Topics in Probability</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>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH_V 609-E_201</td>
<td>E_201</td>
<td>E</td>
<td>Topics in Mathematical Physics</td>
<td>W2</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>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH_V 610-D_101</td>
<td>D_101</td>
<td>D</td>
<td>Topics in Pure Mathematics</td>
<td>W2</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>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH_V 612-D_101</td>
<td>D_101</td>
<td>D</td>
<td>Topics in Mathematical Biology</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>11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>MATH_V 613-D_101</td>
<td>D_101</td>
<td>D</td>
<td>Topics in Number Theory</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>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH_V 615-A_201</td>
<td>A_201</td>
<td>A</td>
<td>Topics in Algebraic Geometry</td>
<td>W2</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>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH_V 615-B_201</td>
<td>B_201</td>
<td>B</td>
<td>Topics in Algebraic Geometry</td>
<td>W2</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>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH_V 620-E_101</td>
<td>E_101</td>
<td>E</td>
<td>Directed Studies in Mathematics</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>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH_V 649-001</td>
<td>001</td>
<td>0</td>
<td>Doctoral Dissertation</td>
<td>W1-2</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>3:00 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH_V 649-002</td>
<td>002</td>
<td>0</td>
<td>Doctoral Dissertation</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>3:00 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MATH_V 649-003</td>
<td>003</td>
<td>0</td>
<td>Doctoral Dissertation</td>
<td>W2</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>3:00 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MEDIA_V 100-301</td>
<td>301</td>
<td>0</td>
<td>Media Objects</td>
<td>W1</td>
<td>Multidisciplinary perspectives on contemporary media objects and their effects.</td>
<td>10:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MEDIA_V 100-101</td>
<td>101</td>
<td>0</td>
<td>Media Objects</td>
<td>W1</td>
<td>Multidisciplinary perspectives on contemporary media objects and their effects.</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MEDIA_V 100-102</td>
<td>102</td>
<td>0</td>
<td>Media Objects</td>
<td>W1</td>
<td>Multidisciplinary perspectives on contemporary media objects and their effects.</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MEDIA_V 100-103</td>
<td>103</td>
<td>0</td>
<td>Media Objects</td>
<td>W1</td>
<td>Multidisciplinary perspectives on contemporary media objects and their effects.</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MEDIA_V 100-104</td>
<td>104</td>
<td>0</td>
<td>Media Objects</td>
<td>W1</td>
<td>Multidisciplinary perspectives on contemporary media objects and their effects.</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MEDIA_V 100-105</td>
<td>105</td>
<td>0</td>
<td>Media Objects</td>
<td>W1</td>
<td>Multidisciplinary perspectives on contemporary media objects and their effects.</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>MEDIA_V 100-106</td>
<td>106</td>
<td>0</td>
<td>Media Objects</td>
<td>W1</td>
<td>Multidisciplinary perspectives on contemporary media objects and their effects.</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MEDIA_V 110-201</td>
<td>201</td>
<td>0</td>
<td>Media Communities</td>
<td>W2</td>
<td>Media engagement with community partners through data, narrative and visual processes. Prerequisite: Restricted to BMS students with 1st year standing.</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MEDIA_V 200-201</td>
<td>201</td>
<td>0</td>
<td>Collaborative Methods</td>
<td>W2</td>
<td>Development and practice of media group production processes. Restricted to BMS students with 2nd year standing or above.</td>
<td>3:00 p.m. - 4:30 p.m.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>
In Person Learning

A Survey of the study of the medieval period in Western Europe (950-1500) integrating history, literature, and the arts; topics vary from year to year; interested students should consult the Medieval Studies Advisor.

In Person Learning

Engineering graphics, spatial visualization, CAD, equation solvers, machine shop practice, electronic circuit construction and troubleshooting, elements of engineering science. This course is not eligible for Credit/D/Fail grading. [11-2-1] Prerequisite: All of MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: MECH 220.

In Person Learning

Mechanical Engineering, basic electrical circuits, work and power, stress and strain, torsion, bending, engineering materials, probability and statistics. This course includes the content of ELEC 203. This course is not eligible for Credit/D/Fail grading. [11-2-1] Prerequisite: All of MATH 101, MATH 152, PHYS 158, PHYS 170 and one of BMEG 102, PHYS 159 and one of APSC 176, ENGL 112, WRDS 150. Corequisite: MECH 220.

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In Person Learning  Fri  1:00 p.m. - 3:00 p.m.


In Person Learning  Fri  3:00 p.m. - 4:00 p.m.


In Person Learning  Fri  3:00 p.m. - 4:00 p.m.
Integration of the theory and practice of Mechanical Engineering to illustrate the conceptual and computational connectivity of seemingly different technical areas. Emphasis on thermodynamics, fluid mechanics, and mathematics. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: MECH 220.

Technical Communication for Mechanical Engineers

W1-2

Integration of the theory and practice of Mechanical Engineering to illustrate the conceptual and computational connectivity of seemingly different technical areas. Emphasis on thermodynamics, fluid mechanics, and mathematics. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: MECH 220.

Technical Communication for Mechanical Engineers

W1-2

Introduction to Mechanics of Materials

Statically determinate frames and structures; normal and shear stresses and strains; shear force and bending moment diagrams; theory of beam bending, torsion of circular rods; transformation of stress and strain in two and three dimensions; Mohr’s circle; yield and ultimate failure criteria. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MATH 101, PHYS 170 or (b) all of APSC 172, APSC 173, APSC 180.

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Technical Communication for Mechanical Engineers

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Technical Communication for Mechanical Engineers

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Technical Communication for Mechanical Engineers

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Technical Communication for Mechanical Engineers

W1-2

Introduction to Mechanics of Materials

Statically determinate frames and structures; normal and shear stresses and strains; shear force and bending moment diagrams; theory of beam bending, torsion of circular rods; transformation of stress and strain in two and three dimensions; Mohr’s circle; yield and ultimate failure criteria. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MATH 101, PHYS 170 or (b) all of APSC 172, APSC 173, APSC 180.

Technical Communication for Mechanical Engineers

W1-2

Introduction to Mechanics of Materials

Statically determinate frames and structures; normal and shear stresses and strains; shear force and bending moment diagrams; theory of beam bending, torsion of circular rods; transformation of stress and strain in two and three dimensions; Mohr’s circle; yield and ultimate failure criteria. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MATH 101, PHYS 170 or (b) all of APSC 172, APSC 173, APSC 180.
Fluid properties; statics; kinematics, dynamics, energy, and momentum principles for control volumes; dimensional analysis and similarity; laminar and turbulent flow; pipe flow; principles of centrifugal pumps. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of MECH 152, PHYS 170 and one of MECH 217, PHYS 251, and either (a) PHYS 231 and one of PHYS 108, PHYS 118b, or PHYS 152 or (b) all of PHYS 171, 158, 159. Prereq: MATH 130.

The use of probability and statistical methods for engineering applications. Mechanics of materials, heat transfer, fluid dynamics. Instruments, data acquisition, and data manipulation using modern computational tools. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: All of MECH 220, MECH 223, MATH 224, MECH 225.

In Person Learning
Mon 3:00 p.m. - 12:00 a.m.

In Person Learning
Mon 11:00 a.m. - 8:00 p.m.
MECH 328-101
328 101 Mechanical Engineering Design Project

MECH 328-L1A
328 L1A Mechanical Engineering Design Project

MECH 328-T1A
328 T1A Mechanical Engineering Design Project

MECH 330-201
359 201 Computational Methods for Mechanical Engineering

MECH 350-201
359 201 Computational Methods for Mechanical Engineering

MECH 360-T1A
360 T1A Mechanics of Materials

MECH 360-T2A
360 T2A Mechanics of Materials

MECH 366-101
366 101 Modelling of Mechatronic Systems

MECH 366-L1A
366 L1A Modelling of Mechatronic Systems

MECH 366-L1B
366 L1B 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 358 or MECH 358B. [3-1-1] Prerequisite: All of MECH 226, MECH 228.

Computational methods for solving mechanical engineering problems. Numerical computation of linear and nonlinear algebraic equations; interpolation and extrapolation; numerical integration and differentiation; numerical solution of differential equations. Credit will be granted for only one of MECH 358 or MECH 358B. [3-1-1] Prerequisite: All of MECH 224, MECH 228.

Computational methods for solving mechanical engineering problems. Numerical computation of linear and nonlinear algebraic equations; interpolation and extrapolation; numerical integration and differentiation; numerical solution of differential equations. Credit will be granted for only one of MECH 358 or MECH 358B. [3-1-1] Prerequisite: All of MECH 224, MECH 228.

Modelling of mechanical, electrical, thermal, fluid elements and mixed mechatronic systems. Signal processing, signal conditioning. Sensors, data acquisition systems, actuators. This course is not eligible for Credit/D/Fail grading. [2-2-1] Prerequisite: MECH 223. (And third year standing in Mechanical Engineering)
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. [3-2-1] Prerequisite: All of MECH 220, MECH 224, MECH 255.

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

**MECH 368-T1B**

Modelling of Mechatronic Systems

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

**MECH 368-T1B**

Modelling of Mechatronic Systems

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

**MECH 368-T1B**

Modelling of Mechatronic Systems

In Person Learning Thu 10:00 a.m. - 11:00 a.m.
MECH_V 400-201 MECH_V 400 201 Professionalism and Ethics in Engineering W2 Professionalism, ethical frameworks, desecration, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc. In Person Learning Tue 4:00 p.m. - 6:00 p.m.

MECH_V 400-T2A MECH_V 400 T2A Professionalism and Ethics in Engineering W2 Professionalism, ethical frameworks, desecration, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc. In Person Learning Mon 1:30 p.m. - 3:00 p.m.

MECH_V 400-T2B MECH_V 400 T2B Professionalism and Ethics in Engineering W2 Professionalism, ethical frameworks, desecration, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc. In Person Learning Mon 1:30 p.m. - 3:00 p.m.

MECH_V 400-T2C MECH_V 400 T2C Professionalism and Ethics in Engineering W2 Professionalism, ethical frameworks, desecration, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

MECH_V 400-T2D MECH_V 400 T2D Professionalism and Ethics in Engineering W2 Professionalism, ethical frameworks, desecration, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

MECH_V 400-T2E MECH_V 400 T2E Professionalism and Ethics in Engineering W2 Professionalism, ethical frameworks, desecration, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

MECH_V 400-T2F MECH_V 400 T2F Professionalism and Ethics in Engineering W2 Professionalism, ethical frameworks, desecration, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

MECH_V 400-T2G MECH_V 400 T2G Professionalism and Ethics in Engineering W2 Professionalism, ethical frameworks, desecration, equity, diversity, inclusion, law. Obligations of the engineer. This course is not eligible for Credit/D/Fail grading. Prerequisite: Fourth-year standing in B.A.Sc. In Person Learning Thu 11:00 a.m. - 12:30 p.m.

MECH_V 410-C_101 MECH_V 410 C_101 Special Topics in Mechanical Engineering W1 Lectures and readings on specialized topics of current interest in Mechanical Engineering. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

MECH_V 410-D_101 MECH_V 410 D_101 Special Topics in Mechanical Engineering W1 Lectures and readings on specialized topics of current interest in Mechanical Engineering. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 8:00 a.m. - 9:30 a.m.

MECH_V 410-F_201 MECH_V 410 F_201 Special Topics in Mechanical Engineering W2 Lectures and readings on specialized topics of current interest in Mechanical Engineering. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

MECH_V 410-G_101 MECH_V 410 G_101 Special Topics in Mechanical Engineering W1 Lectures and readings on specialized topics of current interest in Mechanical Engineering. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed 8:30 a.m. - 10:00 a.m.

MECH_V 411-101 MECH_V 411 101 Air Pollution, Technology and Society W1 Causes and effects of air pollution in the context of technology and society. Topics include: impact of air pollutants on air quality and climate, atmospheric science, public policy, collective action, environmental justice, science communication, economic externalities, and ethical engineering design. Recommended pre-requisite: third-year standing. This course is not eligible for Credit/D/Fail grading. (3-0-0) Prerequisite: Second-year standing. In Person Learning Mon Wed Fri 2:00 p.m. - 3:00 p.m.

MECH_V 411-201 MECH_V 411 201 Air Pollution, Technology and Society W1 Causes and effects of air pollution in the context of technology and society. Topics include: impact of air pollutants on air quality and climate, atmospheric science, public policy, collective action, environmental justice, science communication, economic externalities, and ethical engineering design. Recommended pre-requisite: third-year standing. This course is not eligible for Credit/D/Fail grading. (3-0-0) Prerequisite: Second-year standing. In Person Learning Arranged Arranged

MECH_V 420-101 MECH_V 420 101 Sensors and Actuators W1 Measurement of motion, stress, force, torque, temperature, flow and pressure; principles of sensors and signal conditioning method; selection and sizing of actuators. [1.2-2-1] Prerequisite: All of MECH 360, MECH 463, MECH 366, ELEC 343. In Person Learning Mon 2:00 p.m. - 3:00 p.m.

MECH_V 420-L1A MECH_V 420 L1A Sensors and Actuators W1 Measurement of motion, stress, force, torque, temperature, flow and pressure; principles of sensors and signal conditioning method; selection and sizing of actuators. [1.2-2-1] Prerequisite: All of MECH 360, MECH 463, MECH 366, ELEC 343. In Person Learning Wed (Alternate weeks) 3:00 a.m. - 12:30 p.m.

MECH_V 420-L1B MECH_V 420 L1B Sensors and Actuators W1 Measurement of motion, stress, force, torque, temperature, flow and pressure; principles of sensors and signal conditioning method; selection and sizing of actuators. [1.2-2-1] Prerequisite: All of MECH 360, MECH 463, MECH 366, ELEC 343. In Person Learning Wed (Alternate weeks) 4:00 p.m. - 6:00 p.m.

MECH_V 420-L1C MECH_V 420 L1C Sensors and Actuators W1 Measurement of motion, stress, force, torque, temperature, flow and pressure; principles of sensors and signal conditioning method; selection and sizing of actuators. [1.2-2-1] Prerequisite: All of MECH 360, MECH 463, MECH 366, ELEC 343. In Person Learning Fri (Alternate weeks) 4:00 p.m. - 6:00 p.m.

MECH_V 420-L1D MECH_V 420 L1D Sensors and Actuators W1 Measurement of motion, stress, force, torque, temperature, flow and pressure; principles of sensors and signal conditioning method; selection and sizing of actuators. [1.2-2-1] Prerequisite: All of MECH 360, MECH 463, MECH 366, ELEC 343. In Person Learning Arranged Arranged

MECH_V 420-T2A MECH_V 420 T2A Sensors and Actuators W1 Measurement of motion, stress, force, torque, temperature, flow and pressure; principles of sensors and signal conditioning method; selection and sizing of actuators. [1.2-2-1] Prerequisite: All of MECH 360, MECH 463, MECH 366, ELEC 343. In Person Learning Arranged Arranged

MECH_V 421-201 MECH_V 421 201 Mechatronics System Instrumentation W2 Architecture of mechatronics devices; integration of mechanical, electronic, sensors, actuators, computer and real time software systems; PIC and PLC based systems; discrete and continuous automation system design. This course is not eligible for Credit/D/Fail grading. (3-2-2) Prerequisite: MECH 366, Compulsory: MECH 420. In Person Learning Fri 10:00 a.m. - 12:00 p.m.

MECH_V 421-L2A MECH_V 421 L2A Mechatronics System Instrumentation W2 Architecture of mechatronics devices; integration of mechanical, electronic, sensors, actuators, computer and real time software systems; PIC and PLC based systems; discrete and continuous automation system design. This course is not eligible for Credit/D/Fail grading. (3-2-2) Prerequisite: MECH 366, Compulsory: MECH 420. In Person Learning Mon 12:00 p.m. - 2:00 p.m.
MECH 421-L2B  MECH 421 L2B Mechatronics System Instrumentation W2 Architecture of mechatronics devices; integration of mechanical, electronic, sensors, actuators, computer and real-time software systems; PIC and PIC-based systems; discrete and continuous automation system design. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 366. Corequisite: MECH 420. In Person Learning Mon 12:00 p.m. - 1:30 p.m.

MECH 421-L2C  MECH 421 L2C Mechatronics System Instrumentation W2 Architecture of mechatronics devices; integration of mechanical, electronic, sensors, actuators, computer and real-time software systems; PIC and PIC-based systems; discrete and continuous automation system design. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 366. Corequisite: MECH 420. In Person Learning Wed 12:00 p.m. - 2:00 p.m.

MECH 421-L2D  MECH 421 L2D Mechatronics System Instrumentation W3 Architecture of mechatronics devices; integration of mechanical, electronic, sensors, actuators, computer and real-time software systems; PIC and PIC-based systems; discrete and continuous automation system design. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 366. Corequisite: MECH 420. In Person Learning Fri 3:00 p.m. - 5:00 p.m.

MECH 421-L2E  MECH 421 L2E Mechatronics System Instrumentation W2 Architecture of mechatronics devices; integration of mechanical, electronic, sensors, actuators, computer and real-time software systems; PIC and PIC-based systems; discrete and continuous automation system design. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 366. Corequisite: MECH 420. In Person Learning Fri 1:00 p.m. - 3:00 p.m.

MECH 421-T2A  MECH 421 T2A Mechatronics System Instrumentation W2 Architecture of mechatronics devices; integration of mechanical, electronic, sensors, actuators, computer and real-time software systems; PIC and PIC-based systems; discrete and continuous automation system design. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: MECH 366. Corequisite: MECH 420. In Person Learning Wed 2:00 p.m. - 4:00 p.m.

MECH 422-101  MECH 422 101 Biofluids W2 Fundamentals of MEMS (Micro Electro Mechanical Systems). Microfabrication of MEMS with solid state technology. SiGe and micro injection molding. Physics of MEMS. Operational principles of various MEMS devices. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: One of MECH 226, MECH 228 and all of MECH 366, MECH 368.

MECH 422-L2A  MECH 422 L2A Introduction to Microelectromechanical Systems W2 Design of mechatronic systems for industrial and human-centric applications; compliant structures; electronic circuits to interface with sensors and actuators, embedded systems, precision timing and control, data acquisition and processing, user interface, and product innovation. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: All of MECH 224, ELEC 222, CPEN 222, and 4th year standing. Corequisite: CPEN 223.

MECH 423-101  MECH 423 101 Mechatronic Product Design W1 Design of mechatronic systems for industrial and human-centric applications; compliant structures; electronic circuits to interface with sensors and actuators, embedded systems, precision timing and control, data acquisition and processing, user interface, and product innovation. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: All of MECH 224, ELEC 222, CPEN 222, and 4th year standing. Corequisite: CPEN 223.

MECH 423-L1A  MECH 423 L1A Mechatronic Product Design W1 Design of mechatronic systems for industrial and human-centric applications; compliant structures; electronic circuits to interface with sensors and actuators, embedded systems, precision timing and control, data acquisition and processing, user interface, and product innovation. This course is not eligible for Credit/D/Fail grading. [2-2-2] Prerequisite: All of MECH 224, ELEC 222, CPEN 222, and 4th year standing. Corequisite: CPEN 223.

MECH 423-T2A  MECH 423 T2A Mechatronic Product Design W1 Design of shafts and welded joints, fatigue and fracture considerations in design: failure types, failure under static and dynamic loading, fatigue failure, crack initiation, and propagation. Introduction to the FEM in mechanical design. Students can only receive credit for one of MECH 326 or MECH 426. [2-2-3] Prerequisite: One of MECH 223, MECH 225. Corequisite: MECH 368.

MECH 426-101  MECH 426 101 Mechanical Design W1 Design of shafts and welded joints, fatigue and fracture considerations in design: failure types, failure under static and dynamic loading, fatigue failure, crack initiation, and propagation. Introduction to the FEM in mechanical design. Students can only receive credit for one of MECH 326 or MECH 426. [2-2-3] Prerequisite: One of MECH 223, MECH 225. Corequisite: MECH 368.

MECH 426-L1A  MECH 426 L1A Mechanical Design W1 Design of shafts and welded joints, fatigue and fracture considerations in design: failure types, failure under static and dynamic loading, fatigue failure, crack initiation, and propagation. Introduction to the FEM in mechanical design. Students can only receive credit for one of MECH 326 or MECH 426. [2-2-3] Prerequisite: One of MECH 223, MECH 225. Corequisite: MECH 368.

MECH 426-T1A  MECH 426 T1A Mechanical Design W1 Design of shafts and welded joints, fatigue and fracture considerations in design: failure types, failure under static and dynamic loading, fatigue failure, crack initiation, and propagation. Introduction to the FEM in mechanical design. Students can only receive credit for one of MECH 326 or MECH 426. [2-2-3] Prerequisite: One of MECH 223, MECH 225. Corequisite: MECH 368.

MECH 431-101  MECH 431 101 Engineering Economics W1 Discounted cash flows. Sources of funds; cost of capital; Effects of depreciation, taxes, inflation. Evaluation and comparison of economic models for engineering projects. Replacement decisions. Public project analysis. Risk analysis. Project control; inventory analysis, simulation. Recommended pre-requisite: third-year standing. This course is not eligible for Credit/D/Fail grading. [3-0-0] In Person Learning Tue 1:00 p.m. - 2:30 p.m.

MECH 431-T2A  MECH 431 T2A Orthopaedic Biomechanics W1 Musculoskeletal anatomy. Muscle and joint loads. Muscle mechanics. Musculoskeletal dynamics. Joint tissues mechanics of tendons, ligaments, articular cartilage, and bone. Biomechanics: Application examples in orthopaedics including joint replacement and fracture fixation. Credit will be granted for only one of MECH 435 or MECH 535. Students who have received credit for BMEG 230 or 330 cannot also receive credit for MECH 435. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: Either (a) MECH 221 or (b) all of APEC 378, MECH 260. Corequisite: MECH 435.

MECH 435-101  MECH 435 101 Orthopaedic Biomechanics W1 Discounted cash flows. Sources of funds; cost of capital; Effects of depreciation, taxes, inflation. Evaluation and comparison of economic models for engineering projects. Replacement decisions. Public project analysis. Risk analysis. Project control; inventory analysis, simulation. Recommended pre-requisite: third-year standing. This course is not eligible for Credit/D/Fail grading. [3-0-0] In Person Learning Mon 10:00 a.m. - 11:30 a.m.
Fundamentals of Injury Biomechanics

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 BIOE 350, or all of MECH 260. Credit will be granted for only one of MECH 435 or MECH 535. This course is not eligible for Credit/D/Fail grading. [3-0-1]

Prerequisites: Either (a) MECH 225 or BMEG 230, MECH 260. Equivalency: MECH536

In Person Learning
Fri 3:00 p.m. - 4:00 p.m.
A capstone course to provide students experience in the design/development of practical mechanical and thermofluids devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459. [1-2-2; 1-2-2] Prerequisite: All of MECH 325, MECH 327, MECH 328, MECH 360, and fourth-year standing in the Thermofluids Option. Equivalency: MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459. In Person Learning Thu 2:00 p.m. - 4:00 p.m.

A capstone course to provide students experience in the design/development of practical mechanical and marine engineering devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2] Prerequisite: All of MECH 325, MECH 328, MECH 360, MECH 380, and fourth-year standing in the Marine Engineering Option. In Person Learning Thu 4:00 p.m. - 6:00 p.m.

A capstone course to provide students experience in the design/development of practical naval architecture and marine engineering devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2] Prerequisite: All of MECH 325, MECH 328, MECH 360, and fourth-year standing in the Naval Architecture and Marine Engineering Option. In Person Learning Thu 2:00 p.m. - 4:00 p.m.

A capstone course to provide students experience in the design/development of practical naval architecture and marine engineering devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2] Prerequisite: All of MECH 325, MECH 328, MECH 360, and fourth-year standing in the Naval Architecture and Marine Engineering Option. In Person Learning Thu 2:00 p.m. - 4:00 p.m.

A capstone course to provide students experience in the design/development of practical naval architecture and marine engineering devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2] Prerequisite: All of MECH 325, MECH 328, MECH 360, and fourth-year standing in the Naval Architecture and Marine Engineering Option. In Person Learning Thu 2:00 p.m. - 4:00 p.m.

A capstone course to provide students experience in the design/development of practical energy and environment devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2] Prerequisite: All of MECH 325, MECH 327, MECH 328, MECH 360, 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. - 6:00 p.m.

A capstone course to provide students experience in the design/development of practical energy and environment devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2] Prerequisite: All of MECH 325, MECH 327, MECH 328, MECH 360, 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. - 6:00 p.m.

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 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2] Prerequisite: All of MECH 325, MECH 327, MECH 328, MECH 360, 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. - 6:00 p.m.

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 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2] Prerequisite: All of MECH 325, MECH 327, MECH 328, MECH 360, 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. - 6:00 p.m.

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 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2] Prerequisite: All of MECH 325, MECH 327, MECH 328, MECH 360, MECH 380, 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. - 6:00 p.m.

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 453, MECH 454, MECH 455, MECH 456, MECH 457, MECH 458, MECH 459, or MECH 490. This course is not eligible for Credit/D/Fail grading. [1-2-2; 1-2-2] Prerequisite: All of MECH 325, MECH 327, MECH 328, MECH 360, MECH 380, 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. - 6:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MECH 458</td>
<td>3-2-1</td>
<td>Biomedical Biomechanics and Medical Devices Capstone Design Project</td>
<td>A capstone design program designed to give students experience in the design and development of practical biomedical devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 458, MECH 459, MECH 465, MECH 466, MECH 467, MECH 468, MECH 469, or MECH 490. This course is not eligible for Credit/D/Fail grading. [2-3*-1] Prerequisite: All of MECH 320, MECH 326, MECH 360 and fourth-year standing in the Biomedical Option. Equivalency: MECH 458, MECH 459, MECH 465, MECH 466, MECH 467, MECH 468, MECH 469, MECH 490. In Person Learning Thu 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>MECH 459</td>
<td>3-2-1</td>
<td>Biomedical Biomechanics and Medical Devices Capstone Design Project</td>
<td>A capstone design program designed to give students experience in the design and development of practical biomedical devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 458, MECH 459, MECH 465, MECH 466, MECH 467, MECH 468, MECH 469, or MECH 490. This course is not eligible for Credit/D/Fail grading. [2-3*-1] Prerequisite: All of MECH 320, MECH 326, MECH 360 and fourth-year standing in the Biomedical Option. Equivalency: MECH 458, MECH 459, MECH 465, MECH 466, MECH 467, MECH 468, MECH 469, MECH 490. In Person Learning Thu 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>MECH 460</td>
<td>3-2-1</td>
<td>Biomedical Biomechanics and Medical Devices Capstone Design Project</td>
<td>A capstone design program designed to give students experience in the design and development of practical biomedical devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 458, MECH 459, MECH 465, MECH 466, MECH 467, MECH 468, MECH 469, or MECH 490. This course is not eligible for Credit/D/Fail grading. [2-3*-1] Prerequisite: All of MECH 320, MECH 326, MECH 360 and fourth-year standing in the Biomedical Option. Equivalency: MECH 458, MECH 459, MECH 465, MECH 466, MECH 467, MECH 468, MECH 469, MECH 490. In Person Learning Thu 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>MECH 461</td>
<td>3-2-1</td>
<td>Biomedical Biomechanics and Medical Devices Capstone Design Project</td>
<td>A capstone design program designed to give students experience in the design and development of practical biomedical devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 458, MECH 459, MECH 465, MECH 466, MECH 467, MECH 468, MECH 469, or MECH 490. This course is not eligible for Credit/D/Fail grading. [2-3*-1] Prerequisite: All of MECH 320, MECH 326, MECH 360 and fourth-year standing in the Biomedical Option. Equivalency: MECH 458, MECH 459, MECH 465, MECH 466, MECH 467, MECH 468, MECH 469, MECH 490. In Person Learning Thu 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>MECH 462</td>
<td>3-2-1</td>
<td>Biomedical Biomechanics and Medical Devices Capstone Design Project</td>
<td>A capstone design program designed to give students experience in the design and development of practical biomedical devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 458, MECH 459, MECH 465, MECH 466, MECH 467, MECH 468, MECH 469, or MECH 490. This course is not eligible for Credit/D/Fail grading. [2-3*-1] Prerequisite: All of MECH 320, MECH 326, MECH 360 and fourth-year standing in the Biomedical Option. Equivalency: MECH 458, MECH 459, MECH 465, MECH 466, MECH 467, MECH 468, MECH 469, MECH 490. In Person Learning Thu 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>MECH 463</td>
<td>3-2-1</td>
<td>Biomedical Biomechanics and Medical Devices Capstone Design Project</td>
<td>A capstone design program designed to give students experience in the design and development of practical biomedical devices. Projects are provided by local industry and engineering research laboratories. Credit will be granted for only one of MECH 458, MECH 459, MECH 465, MECH 466, MECH 467, MECH 468, MECH 469, or MECH 490. This course is not eligible for Credit/D/Fail grading. [2-3*-1] Prerequisite: All of MECH 320, MECH 326, MECH 360 and fourth-year standing in the Biomedical Option. Equivalency: MECH 458, MECH 459, MECH 465, MECH 466, MECH 467, MECH 468, MECH 469, MECH 490. In Person Learning Thu 2:00 p.m. - 4:00 p.m.</td>
</tr>
</tbody>
</table>
MECH_467-101  W2
467  311  Computer Control of Mechatronics Systems

W1  Expendency: MECH451

In Person Learning  Tue Thu  8:00 a.m. - 11:00 a.m.

Block diagrams and transfer functions, continuous and discrete domain transformations, feedback control system characteristics; control design in both continuous and discrete domains; absolute and relative stability, laboratory examples of Mechatronic systems design. Credit will be granted for only one of ELEC 467 or MECH 541. This course is not eligible for Credit/D/Fail grading. [3-0-1]

MECH_466-L2H  W2
466  L2H  Automatic Control

In Person Learning  Arranged  Arranged

Array design and implementation issues. Workload environments: forward and inverse kinematics, dynamics, trajectory planning. Servo and manipulators. Control architectures. Recommended corequisite: MECH 466 or MECH 467. Credit will be granted for only one of ELEC 462, ECE 5119, ECE 588, MECH 464 or MECH 543. This course is not eligible for Credit/D/Fail grading. [3-0-1]

MECH_466-L2G  W2
466  L2G  Automatic Control

In Person Learning  Arranged  Arranged

Process and system characteristics; transient response; the closed-loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 462. Credit cannot be obtained for both MECH 464 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ECE 206, ECE 211, ECE 215, or (c) all of ELEC 209, ECE 221, ECE 370, MATH 255.

MECH_466-L2F  W2
466  L2F  Automatic Control

In Person Learning  Arranged  Arranged

Process and system characteristics; transient response; the closed-loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 462. Credit cannot be obtained for both MECH 464 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ECE 206, ECE 211, ECE 215, or (c) all of ELEC 209, ECE 221, ECE 370, MATH 255.

MECH_466-L2E  W2
466  L2E  Automatic Control

In Person Learning  Fri (Alternate weeks)  5:00 p.m. - 8:00 p.m.

Process and system characteristics; transient response; the closed-loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 462. Credit cannot be obtained for both MECH 464 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ECE 206, ECE 211, ECE 215, or (c) all of ELEC 209, ECE 221, ECE 370, MATH 255.

MECH_466-L2C  W2
466  L2C  Automatic Control

In Person Learning  Wed (Alternate weeks)  5:00 p.m. - 8:00 p.m.

Process and system characteristics; transient response; the closed-loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 462. Credit cannot be obtained for both MECH 464 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ECE 206, ECE 211, ECE 215, or (c) all of ELEC 209, ECE 221, ECE 370, MATH 255.

MECH_466-L2B  W2
466  L2B  Automatic Control

In Person Learning  Wed Fri  3:00 p.m. - 4:00 p.m.

Process and system characteristics; transient response; the closed-loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 462. Credit cannot be obtained for both MECH 464 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ECE 206, ECE 211, ECE 215, or (c) all of ELEC 209, ECE 221, ECE 370, MATH 255.

MECH_466-L2A  W2
466  L2A  Automatic Control

In Person Learning  Mon (Alternate weeks)  8:00 a.m. - 11:00 a.m.

Process and system characteristics; transient response; the closed-loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 462. Credit cannot be obtained for both MECH 464 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ECE 206, ECE 211, ECE 215, or (c) all of ELEC 209, ECE 221, ECE 370, MATH 255.

MECH_466-201  W2
466  201  Automatic Control

In Person Learning  Tue Thu  8:00 a.m. - 9:10 a.m.

Process and system characteristics; transient response; the closed-loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 462. Credit cannot be obtained for both MECH 464 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ECE 206, ECE 211, ECE 215, or (c) all of ELEC 209, ECE 221, ECE 370, MATH 255.

MECH_466-202  W2
466  202  Automatic Control

In Person Learning  Wed Fri  3:00 p.m. - 4:00 p.m.

Process and system characteristics; transient response; the closed-loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 462. Credit cannot be obtained for both MECH 464 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ECE 206, ECE 211, ECE 215, or (c) all of ELEC 209, ECE 221, ECE 370, MATH 255.

MECH_466-101  W2
466  101  Automatic Control

In Person Learning  Mon  4:00 p.m. - 5:00 p.m.

Process and system characteristics; transient response; the closed-loop; block diagrams and transfer functions; control actions; stability; Nyquist diagrams; Bode diagrams; root locus methods; frequency response; system compensation; nonlinear control systems; digital computer control. Laboratory experiments to support the lecture content. Recommended pre-requisite: MECH 462. Credit cannot be obtained for both MECH 464 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-0-1] Prerequisite: Either (a) all of MECH 220, MECH 221 or (b) MATH 255 and one of ELEC 201, ELEC 202, ECE 206, ECE 211, ECE 215, or (c) all of ELEC 209, ECE 221, ECE 370, MATH 255.
Block diagrams and transfer functions, continuous and discrete domain transformations, feedback control system characteristics, control design in both continuous and discrete domains, absolute and relative stability, laboratory examples of Mechatronics systems design. Credit will be granted for only one of MECH 467 or MECH 468. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-2*-2] Prerequisite: One of MECH 345, MANU 386. Equivalency: MECH 541.

In Person Learning
Thu Tue
10:30 a.m. - 12:00 p.m.

Block diagrams and transfer functions, continuous and discrete domain transformations, feedback control system characteristics, control design in both continuous and discrete domains, absolute and relative stability, laboratory examples of Mechatronics systems design. Credit will be granted for only one of MECH 467 or MECH 468. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-2*-2] Prerequisite: One of MECH 345, MANU 386. Equivalency: MECH 541.

In Person Learning
Thu Thu
3:00 p.m. - 4:00 p.m.

Block diagrams and transfer functions, continuous and discrete domain transformations, feedback control system characteristics, control design in both continuous and discrete domains, absolute and relative stability, laboratory examples of Mechatronics systems design. Credit will be granted for only one of MECH 467 or MECH 468. Credit cannot be obtained for both MECH 466 and MECH 467. This course is not eligible for Credit/D/Fail grading. [3-2*-2] Prerequisite: One of MECH 345, MANU 386. Equivalency: MECH 541.

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

In Person Learning
Mon Mon
6:00 p.m. - 8:00 p.m.

In Person Learning
W1
4:00 p.m. - 5:00 p.m.

In Person Learning
W2
6:00 p.m. - 8:00 p.m.

In Person Learning
W2
6:00 p.m. - 8:00 p.m.

In Person Learning
Wed Wed
6:00 p.m. - 8:00 p.m.

In Person Learning
Thu Thu
11:30 a.m. - 1:00 p.m.

In Person Learning
W1
6:00 p.m. - 8:00 p.m.

In Person Learning
W2
6:00 p.m. - 8:00 p.m.

In Person Learning
Wed Wed
6:00 p.m. - 8:00 p.m.

In Person Learning
Thu Thu
3:00 p.m. - 4:00 p.m.

In Person Learning
Thu Thu
3:00 p.m. - 4:00 p.m.

In Person Learning
W1
6:00 p.m. - 8:00 p.m.

In Person Learning
W2
6:00 p.m. - 8:00 p.m.

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

In Person Learning
Thu Thu
3:00 p.m. - 4:00 p.m.

In Person Learning
W1
6:00 p.m. - 8:00 p.m.

In Person Learning
W2
6:00 p.m. - 8:00 p.m.

In Person Learning
Wed Wed
6:00 p.m. - 8:00 p.m.
MECH 470-101
479 101
Introduction to Computational Fluid Dynamics
W1
Techniques for numerical solution of ordinary and partial differential equations, including an introduction to the finite difference, finite volume and finite element approaches. Simulation of laminar and turbulent flows, including common turbulent models, validation techniques. Recommended pre-requisite: MECH 380. This course is not eligible for Credit/D/Fail grading. [3-1-0] Corequisite: MECH 380. Credit will be granted for only one of MECH 481 or MECH 488. In Person Learning
*Thu Tue 9:30 a.m. - 11:00 a.m.

MECH 470-11A
479 11A
Introduction to Computational Fluid Dynamics
W1
Techniques for numerical solution of ordinary and partial differential equations, including an introduction to the finite difference, finite volume and finite element approaches. Simulation of laminar and turbulent flows, including common turbulent models, validation techniques. Recommended pre-requisite: MECH 380. This course is not eligible for Credit/D/Fail grading. [3-1-0] Corequisite: MECH 380. Credit will be granted for only one of MECH 481 or MECH 488. In Person Learning
*Tue 1:00 p.m. - 2:00 p.m.

MECH 481-101
481 101
Aerodynamics of Aircraft I
W1
Analysis of aircraft and wings. Potential flow, thin airfoil theory. Wing analysis of wings. Predicting viscous drag. Numerical methods for analysis and design of aircraft and wings. Use of wind tunnels for experimental study of aerodynamics. Credit will be granted for only one of MECH 481 or MECH 488. This course is not eligible for Credit/D/Fail grading. [3-1-0] Prerequisite: MECH 481
In Person Learning
*Tue Thu 11:00 a.m. - 12:30 p.m.

MECH 481-11A
481 11A
Aerodynamics of Aircraft I
W1
Analysis of aircraft and wings. Potential flow, thin airfoil theory. Wing analysis of wings. Predicting viscous drag. Numerical methods for analysis and design of aircraft and wings. Use of wind tunnels for experimental study of aerodynamics. Credit will be granted for only one of MECH 481 or MECH 488. This course is not eligible for Credit/D/Fail grading. [3-1-0] Prerequisite: MECH 481
In Person Learning
*Fri 9:30 a.m. - 11:00 a.m.

MECH 484-201
484 201
AirCraft Design: Aerodynamics
W2
Aircraft performance, stability and control, loading and airworthiness. Detailed examples. This course is not eligible for Credit/D/Fail grading. [2-0-2] Corequisite: MECH 481.
In Person Learning
Mon 1:00 p.m. - 3:00 p.m.

MECH 484-21A
484 21A
AirCraft Design: Aerodynamics
W2
Aircraft performance, stability and control, loading and airworthiness. Detailed examples. This course is not eligible for Credit/D/Fail grading. [2-0-2] Corequisite: MECH 481.
In Person Learning
*Tue Thu 1:00 p.m. - 3:00 p.m.

MECH 485-101
485 101
AirCraft Design: Structures
W1
Structural components of aircraft, introduction to the finite element method, bending and buckling of thin plates. Design of aircraft wing and fuselage structures, moments of inertia for complex shapes. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of MECH 251, MECH 260, MECH 281 or CIVL 315.
In Person Learning
Wed Fri 9:00 a.m. - 10:30 a.m.

MECH 485-11A
485 11A
AirCraft Design: Structures
W1
Structural components of aircraft, introduction to the finite element method, bending and buckling of thin plates. Design of aircraft wing and fuselage structures, moments of inertia for complex shapes. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: One of MECH 251, MECH 260, MECH 281 or CIVL 315.
In Person Learning
*Fri 10:00 a.m. - 11:30 a.m.

MECH 486-101
486 101
Introduction to Ship Design
W1
Ship terminology, line plans, ship hydrostatics, transverse and longitudinal stability of ships, dimensional analysis, ship resistance prediction, propulsion methods, ship selection and design. Recommended prerequisites: One of MECH 280 or CIVL 235, or enrollment in the NAME MEng or NAME MEL program. This course is not eligible for Credit/D/Fail grading. [3-0-0] Corequisite: NAME 380 or CIVL 235.
In Person Learning
Mon Wed Fri 1:00 p.m. - 2:30 p.m.

MECH 488-101
488 101
Introduction to Ship Hydrodynamics
W1
Ship terminology, line plans, ship hydrostatics, transverse and longitudinal stability of ships, dimensional analysis, ship resistance prediction, propulsion methods, ship selection and design. Recommended prerequisites: One of MECH 280 or CIVL 235, or enrollment in the NAME MEng or NAME MEL program. This course is not eligible for Credit/D/Fail grading. [3-0-0]
In Person Learning
Mon Wed Fri 1:00 p.m. - 2:30 p.m.

MECH 488-102
488 102
Introduction to Ship Hydrodynamics
W1
Experimental Uncertainty. Design of experiments. Flow visualization. Case studies of industrial and research experimental practice. Credit will be granted for only one of MECH 489 or MECH 582. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of MECH 375, MECH 380. In Person Learning
*Wed Fri 9:00 a.m. - 10:30 a.m.

MECH 489-201
489 201
Experimental Thermofluids
W1
Experimental Uncertainty. Design of experiments. Flow visualization. Case studies of industrial and research experimental practice. Credit will be granted for only one of MECH 489 or MECH 582. This course is not eligible for Credit/D/Fail grading. [3-0-0] Prerequisite: All of MECH 375, MECH 380. In Person Learning
*Wed Fri 9:00 a.m. - 10:30 a.m.

MECH 489-12A
489 12A
Experimental Thermofluids
W2
An extension to projects in the New Venture Design Program that introduces additional technical design principles and requirements. Registration for this program is only permitted for Mechanical Engineering students who are in the New Venture Design Program. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of MECH 485, MECH 489, MECH 490, MECH 495, MECH 496, MECH 567, MECH 458, MECH 658, or MECH 445. [1*-1-1] [1*-1-1] Corequisite: MECH 481.
In Person Learning
*Fri 10:00 a.m. - 12:00 p.m.

MECH 490-001
490 001
Interdisciplinary Capstone Design Project
W1-2
An extension to projects in the New Venture Design Program that introduces additional technical design principles and requirements. Registration for this program is only permitted for Mechanical Engineering students who are in the New Venture Design Program. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of MECH 485, MECH 489, MECH 490, MECH 495, MECH 496, MECH 567, MECH 458, MECH 658, or MECH 445. [1*-1-1] [1*-1-1] Corequisite: MECH 481.
In Person Learning
*Thu 4:00 p.m. - 6:00 p.m.

MECH 490-10A
490 10A
Interdisciplinary Capstone Design Project
W1-2
An extension to projects in the New Venture Design Program that introduces additional technical design principles and requirements. Registration for this program is only permitted for Mechanical Engineering students who are in the New Venture Design Program. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of MECH 485, MECH 489, MECH 490, MECH 495, MECH 496, MECH 567, MECH 458, MECH 658, or MECH 445. [1*-1-1] [1*-1-1] Corequisite: MECH 481.
In Person Learning
*Arranged

MECH 490-10A
490 10A
Interdisciplinary Capstone Design Project
W1-2
An extension to projects in the New Venture Design Program that introduces additional technical design principles and requirements. Registration for this program is only permitted for Mechanical Engineering students who are in the New Venture Design Program. This course is not eligible for Credit/D/Fail grading. Credit will be granted for only one of MECH 485, MECH 489, MECH 490, MECH 495, MECH 496, MECH 567, MECH 458, MECH 658, or MECH 445. [1*-1-1] [1*-1-1] Corequisite: MECH 481.
In Person Learning
*Arranged

MECH 490-11A
490 11A
Computer-Aided Manufacturing
W1
NC programming and machining with interactive CAD/CAM systems. Curve and surface geometry for tool-path generation. Tool path generation methodologies, Geometric modeling techniques for simulation and verification of manufacturing processes. Introduction to Computer-Aided Process Planning. Supplementary tutorial laboratories experiments. Recommended co-requisites: MECH 382 or NAME 380. This course is not eligible for Credit/D/Fail grading. [2-2-0] Corequisite: MECH 382 or NAME 380.
In Person Learning
*Fri 2:00 p.m. - 4:00 p.m.
MECH_V 493-001 MECH_V 493 001 Introduction to Academic Research W2-2 Research project directed by a faculty member in Mechanical Engineering. This course is not eligible for Credit/D/Fail grading. [0-5-0] Prerequisite: Fourth-year standing and at least 60% average in third-year courses and permission of instructor. In Person Learning Arranged Arranged

MECH_V 493-10A MECH_V 493 10A Introduction to Academic Research W2-2 Research project directed by a faculty member in Mechanical Engineering. This course is not eligible for Credit/D/Fail grading. [0-5-0] Prerequisite: Fourth-year standing and at least 60% average in third-year courses and permission of instructor. In Person Learning Arranged Arranged

MECH_V 495 201 MECH_V 495 201 Industrial Engineering W2 Organizational structures. Manufacturing systems and group technology. Classification and coding. Scheduling and sequencing of operations. Forecasting. Quality control for variables and attributes. Plant location. System reliability analysis. Advanced manufacturing automation concepts. This course is not eligible for Credit/D/Fail grading. [3-0-0] In Person Learning Mon 5:00 p.m. - 6:00 p.m.

MECH_V 496-101 MECH_V 496 101 Engineering Management W1 Organization structures. Management styles. Cost systems and control. Financial statements; accounting procedures. Budgets and performance control. Project management. Human resource management. This course is not eligible for Credit/D/Fail grading. [3-0-0] In Person Learning Mon Thu 6:30 p.m. - 9:30 p.m.

MECH_V 502-101 MECH_V 502 101 Fluid Mechanics W1 Governing equations; viscous incompressible flow, incompressible potential flow, incompressible boundary layers, stability and turbulence, compressible potential flow. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.

MECH_V 503-101 MECH_V 503 101 Linear Elasticity W1 Stress and strain in three dimensions, fundamental field equations of linear elasticity. equilibrium, compatibility, linear theory, Navier-Stokes equations, plane stress and plane strain; torsion, torsion of thin-walled members with warping restraint; plate theory. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

MECH_V 503-21A MECH_V 503 21A Linear Elasticity W1 Stress and strain in three dimensions, fundamental field equations of linear elasticity, equilibrium, compatibility, linear theory, Navier-Stokes equations, plane stress and plane strain; torsion, torsion of thin-walled members with warping restraint; plate theory. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed 1:00 p.m. - 2:00 p.m.

MECH_V 506-201 MECH_V 506 201 Linear Vibrations W2 State space model; stability, controllability, observability; Kalman decomposition; state feedback; observer; linear quadratic regulator; Kalman filter. Credit will be granted for only one of MECH 462 or 506. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Fri 1:00 p.m. - 2:00 p.m.

MECH_V 509-201 MECH_V 509 201 Controls W2 Theory and element selection. Virtual work and weighted residual formulation. Linear elastic analysis. Heat transfer analysis. Isoparametric elements. Computer program development. Utilization of existing computer packages. Credit will only be granted for one of MECH 514 or 524. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Fri 1:00 p.m. - 2:00 p.m.

MECH_V 514-101 MECH_V 514 101 Linear ESA in Solids and Heat Transfer W1 Stress analysis. Heat transfer analysis. Isoparametric elements. Computer program development. Utilization of existing computer packages. Credit will only be granted for one of MECH 514 or 524. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Fri 2:00 p.m. - 4:00 p.m.

MECH_V 514-11A MECH_V 514 11A Linear ESA in Solids and Heat Transfer W1 Stress analysis. Heat transfer analysis. Isoparametric elements. Computer program development. Utilization of existing computer packages. Credit will only be granted for one of MECH 514 or 524. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed Fri 4:00 p.m. - 5:30 p.m.

MECH_V 521-101 MECH_V 521 101 Fundamentals of Microelectromechanical Systems W1 Micro-fabrication of MEMS: solid-state technology and other micromachining techniques. Engineering principles of various MEMS devices. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

MECH_V 521-11A MECH_V 521 11A Fundamentals of Microelectromechanical Systems W1 Micro-fabrication of MEMS: solid-state technology and other micromachining techniques. Engineering principles of various MEMS devices. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon 5:00 p.m. - 6:00 p.m.

MECH_V 521-11B MECH_V 521 11B Fundamentals of Microelectromechanical Systems W1 Micro-fabrication of MEMS: solid-state technology and other micromachining techniques. Engineering principles of various MEMS devices. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed 5:00 p.m. - 6:00 p.m.

MECH_V 521-11C MECH_V 521 11C Fundamentals of Microelectromechanical Systems W1 Micro-fabrication of MEMS: solid-state technology and other micromachining techniques. Engineering principles of various MEMS devices. This course is not eligible for Credit/D/Fail grading. In Person Learning Fri 5:00 p.m. - 6:00 p.m.

MECH_V 528-101 MECH_V 528 101 Software Development for Mechatronic Systems W1 This course is not eligible for Credit/D/Fail grading. Equivalency: ECE324 In Person Learning Wed 1:00 p.m. - 2:30 p.m.

MECH_V 528-11A MECH_V 528 11A Software Development for Mechatronic Systems W1 This course is not eligible for Credit/D/Fail grading. Equivalency: ECE324 In Person Learning Wed 10:00 a.m. - 12:30 p.m.

MECH_V 529-201 MECH_V 529 201 Instrumentation for Mechatronic Systems W2 This course is not eligible for Credit/D/Fail grading. Equivalency: ECE212 In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.

MECH_V 529-21A MECH_V 529 21A Instrumentation for Mechatronic Systems W2 Principles, bioengineering, circulatory blood flow mechanics, general fluid dynamics of the human brain, respiratory blood flow mechanics, flow and pressure measurement techniques in the human body. Credit will be granted for only one of MECH 410 or 529. This course is not eligible for Credit/D/Fail grading. In Person Learning Thu 3:00 p.m. - 4:00 p.m.

MECH_V 530-101 MECH_V 530 101 Biofluids W1 Principles, bioengineering, circulatory blood flow mechanics, general fluid dynamics of the human brain, respiratory blood flow mechanics, flow and pressure measurement techniques in the human body. Credit will be granted for only one of MECH 410 or 529. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed 5:00 p.m. - 6:30 p.m.

MECH_V 530-11A MECH_V 530 11A Biofluids W1 Principles, bioengineering, circulatory blood flow mechanics, general fluid dynamics of the human brain, respiratory blood flow mechanics, flow and pressure measurement techniques in the human body. Credit will be granted for only one of MECH 410 or 529. This course is not eligible for Credit/D/Fail grading. In Person Learning Wed 4:00 p.m. - 5:00 p.m.

MECH_V 530-11B MECH_V 530 11B Orthopaedic Biomechanics W1 Musculoskeletal anatomy. Static and dynamic analysis of the musculoskeletal system. Gait. Musculoskeletal tissue mechanics. Biomaterials. Advanced study of relevant problems in orthopaedics, including joint replacement, fracture fixation, and spinal disorders. Credit will only be granted for one of MECH 410 or 529. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed 2:00 p.m. - 3:30 p.m.
**MECH 536-201** MECH 536 201 Orthopaedic Biomechanics

Musculoskeletal anatomy. Static and dynamic analysis of the musculoskeletal system. Gait. Musculoskeletal tissue mechanics. Biomaterials. Advanced study of relevant problems in orthopaedics, including joint replacement, fracture fixation, and spinal disorders. Credit will only be granted for one of MECH 435 or MECH 536. This course is not eligible for Credit/D/Fail grading.

In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.

**MECH 536-T1A** MECH 536 T1A Orthopaedic Biomechanics

Musculoskeletal anatomy. Static and dynamic analysis of the musculoskeletal system. Gait. Musculoskeletal tissue mechanics. Biomaterials. Advanced study of relevant problems in orthopaedics, including joint replacement, fracture fixation, and spinal disorders. Credit will only be granted for one of MECH 435 or MECH 536. This course is not eligible for Credit/D/Fail grading.

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

**MECH 536-T1A** MECH 536 T1A Orthopaedic Biomechanics

Musculoskeletal anatomy. Static and dynamic analysis of the musculoskeletal system. Gait. Musculoskeletal tissue mechanics. Biomaterials. Advanced study of relevant problems in orthopaedics, including joint replacement, fracture fixation, and spinal disorders. Credit will only be granted for one of MECH 435 or MECH 536. This course is not eligible for Credit/D/Fail grading.

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

**MECH 536-101** MECH 536 101 Fundamentals of Injury Biomechanics


Anthropomorphic test devices, seat belts, airbags, child restraints, and helmets. Credit will only be granted for one of MECH 436 or MECH 536. This course is not eligible for Credit/D/Fail grading.

In Person Learning Arranged Arranged

**MECH 536-101** MECH 536 101 Fundamentals of Injury Biomechanics


Anthropomorphic test devices, seat belts, airbags, child restraints, and helmets. Credit will only be granted for one of MECH 436 or MECH 536. This course is not eligible for Credit/D/Fail grading.

In Person Learning Mon Wed 12:00 p.m. - 1:00 p.m.

**MECH 536-T1A** MECH 536 T1A Fundamentals of Injury Biomechanics


Anthropomorphic test devices, seat belts, airbags, child restraints, and helmets. Credit will only be granted for one of MECH 436 or MECH 536. This course is not eligible for Credit/D/Fail grading.

In Person Learning Arranged Arranged

**MECH 536-T2A** MECH 536 T2A Fundamentals of Injury Biomechanics


Anthropomorphic test devices, seat belts, airbags, child restraints, and helmets. Credit will only be granted for one of MECH 436 or MECH 536. This course is not eligible for Credit/D/Fail grading.

In Person Learning Arranged Arranged

**MECH 540-E_101** MECH 540 E_101 Emerging Topics in Mechatronics, Manufacturing, Controls, and Automation

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

In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

**MECH 540-E_101** MECH 540 F_101 Emerging Topics in Mechatronics, Manufacturing, Controls, and Automation

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

In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.

**MECH 540-G_101** MECH 540 G_101 Emerging Topics in Mechatronics, Manufacturing, Controls, and Automation

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

In Person Learning Tue Thu 8:30 a.m. - 10:00 a.m.

**MECH 541-101** MECH 541 101 Computer Control of Multi-Axis Machines

Digital control laws for servo drives; state-space and transfer function models of feed drives; tracking errors; trajectory generation of multi-axis machines; contouring analysis of multi-axis servo drives; machine linear and circular interpolation methods supported by laboratory applications. Credit will be granted for only one of MECH 447 or MECH 541. This course is not eligible for Credit/D/Fail grading.

In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

**MECH 541-L1A** MECH 541 L1A Computer Control of Multi-Axis Machines

Digital control laws for servo drives; state-space and transfer function models of feed drives; tracking errors; trajectory generation of multi-axis machines; contouring analysis of multi-axis servo drives; machine linear and circular interpolation methods supported by laboratory applications. Credit will be granted for only one of MECH 447 or MECH 541. This course is not eligible for Credit/D/Fail grading.

In Person Learning Arranged Arranged

**MECH 541-T1A** MECH 541 T1A Computer Control of Multi-Axis Machines

Digital control laws for servo drives; state-space and transfer function models of feed drives; tracking errors; trajectory generation of multi-axis machines; contouring analysis of multi-axis servo drives; machine linear and circular interpolation methods supported by laboratory applications. Credit will be granted for only one of MECH 447 or MECH 541. This course is not eligible for Credit/D/Fail grading.

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

**MECH 542-201** MECH 542 201 CAD/CAM Principles and Practice

3D geometric modeling; parametric representation of curves and surfaces; CNC machine tool programming; milling operations and setup; tool path generation for three- and five-axis sculptured surface machining. This course is not eligible for Credit/D/Fail grading.

In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.

**MECH 542-L2A** MECH 542 L2A CAD/CAM Principles and Practice

3D geometric modeling; parametric representation of curves and surfaces; CNC machine tool programming; milling operations and setup; tool path generation for three- and five-axis sculptured surface machining. This course is not eligible for Credit/D/Fail grading.

In Person Learning Tue Thu 2:00 p.m. - 4:00 p.m.

**MECH 550-T1A** MECH 550 T1A Research Writing

Credit will be granted for only one of MECH 458 or MECH 550. Equivalency: MECH 500X, MECH 500A, MECH 550U

In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.

**MECH 550-T2A** MECH 550 T2A Research Writing

Credit will be granted for only one of MECH 458 or MECH 550. Equivalency: MECH 500X, MECH 500A, MECH 550U

In Person Learning Thu 3:30 p.m. - 4:30 p.m.

**MECH 557-101** MECH 557 101 Research Skills for Engineers

In Person Learning Mon 10:00 a.m. - 12:30 p.m.

**MECH 557-DNU_101** MECH 557 DNU_101 Research Skills for Engineers

In Person Learning Arranged Arranged

**MECH 557-DNU_T1A** MECH 557 DNU_T1A Research Skills for Engineers

In Person Learning Arranged Arranged

**MECH 557-T1A** MECH 557 T1A Research Skills for Engineers

In Person Learning Wed 10:00 a.m. - 12:30 p.m.
MECH_V 558-101  Professional Responsibility for Engineers  W1  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon  10:00 a.m. - 12:00 p.m.

MECH_V 558-T1A  Professional Responsibility for Engineers  W1  This course is not eligible for Credit/D/Fail grading.  In Person Learning  Wed  10:00 a.m. - 11:00 a.m.

MECH_V 559-101  Engineering Project Management  W1  In Person Learning  Tue  1:00 p.m. - 2:00 p.m.

MECH_V 563-201  Robots: Kinematics, Dynamics and Control  W2  Definitions and classification: Homogeneous transformations, manipulator kinematic equations, forward and inverse kinematic solution methods, differential kinematic equations, motion trajectories. Dynamics: Lagrange-Euler formalism, Newton-Euler formalism. Control: methods, robot control hierarchy, control of single joint and multiple link manipulators, advanced control methods. Credit will be granted for one of MECH 489, 582, 588, 589, 689, 586, or MECH 445. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon  10:00 a.m. - 11:00 a.m.

MECH_V 563-T2A  Robots: Kinematics, Dynamics and Control  W2  Definitions and classification: Homogeneous transformations, manipulator kinematic equations, forward and inverse kinematic solution methods, differential kinematic equations, motion trajectories. Dynamics: Lagrange-Euler formalism, Newton-Euler formalism. Control: methods, robot control hierarchy, control of single joint and multiple link manipulators, advanced control methods. Credit will be granted for one of MECH 489, 582, 588, 589, 689, 586, or MECH 445. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon  4:00 p.m. - 5:00 p.m.

MECH_V 570-C_201  Emerging Topics in Thermodynamics, Fluid Mechanics, and Heat Transfer  W2  Governing equations for buoyant and turbulent flow. Forced convection in internal and external flow, flow and combined heat and fluid convection. Heat transfer at high velocities in streamlined gages and in two-phase flow. Mass transfer. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue Thu  10:30 a.m. - 1:30 p.m.

MECH_V 572-101  Conversion Heat Transfer  W1  Energy system architecture and electrochemical energy conversion, fuel cell thermodynamics and electrochemistry. Preston Exchange Membrane Fuel Cells (PEMs) and Solid Oxide Fuel Cells (SOFCs). Hydrogen production, storage, and distribution. Credit will only be granted for one of MECH 489 or MECH 588. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue  4:00 p.m. - 5:00 p.m.

MECH_V 577-201  Fluid Cells Systems  W2  Energy system architecture and electrochemical energy conversion, fuel cell thermodynamics and electrochemistry. Preston Exchange Membrane Fuel Cells (PEMs) and Solid Oxide Fuel Cells (SOFCs). Hydrogen production, storage, and distribution. Credit will only be granted for one of MECH 489 or MECH 588. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon Wed Fri  12:00 p.m. - 1:00 p.m.

MECH_V 577-T2A  Fluid Cells Systems  W2  Analysis of spark and compression ignition engines. Calculation of fuel economy, power and emission. Practical and regulatory considerations in engine design. Numerical engine model building 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  Fri  3:30 p.m. - 5:00 p.m.

MECH_V 578-101  Internal Combustion Engines  W2  Circulations, vorticity and Kelvin's Theorem. Potential flow theory and the Kutta-Ishakawa Law 2D Vortex Panel Method. Laminar and turbulent boundary layer computations. Lifting line theory. Laminar separation: low speed flow. Total airplane drag. Credit will only be granted for one of MECH 581 or MECH 681. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon Wed Fri  10:00 a.m. - 12:00 p.m.

MECH_V 581-101  Low Speed Aerodynamics  W1  Circularization, vorticity and Kelvin's Theorem. Potential flow theory and the Kutta-Ishakawa Law 2D Vortex Panel Method. Laminar and turbulent boundary layer computations. Lifting line theory. Laminar separation: high lift devices. Total airplane drag. Credit will only be granted for one of MECH 581 or MECH 681. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue  11:00 a.m. - 1:30 p.m.

MECH_V 581-L1A  Low Speed Aerodynamics  W1  Circularization, vorticity and Kelvin's Theorem. Potential flow theory and the Kutta-Ishakawa Law 2D Vortex Panel Method. Laminar and turbulent boundary layer computations. Lifting line theory. Laminar separation: high lift devices. Total airplane drag. Credit will only be granted for one of MECH 581 or MECH 681. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon  3:30 p.m. - 5:00 p.m.

MECH_V 582-201  Experimental Fluid Mechanics  W2  Modeling Test facilities. Wind tunnel force measurement. Theory of conventional and modern monoplane. Classical velocity: static and dynamic, Theory and application of laser Doppler velocimetry. Particle image velocimetry. Flow visualization techniques. Thermometry. Credit will only be granted for one of MECH 489 or MECH 582. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon Wed Fri  10:00 a.m. - 12:00 p.m.

MECH_V 582-L2A  Experimental Fluid Mechanics  W2  Vortex Lattice Method. High lift devices. Total airplane drag. Credit will only be granted for one of MECH 489 or MECH 582. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Fri  3:00 p.m. - 5:00 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 free shear flow. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue Thu  11:00 a.m. - 1:30 p.m.

MECH_V 587-101  Computational Fluid Dynamics  W1  Analytical, computational, and experimental methods in fluid mechanics. Overview of CFD program development. Finite volume methods, special discretization and spatial accuracy analysis. Boundary conditions. Time advance methods, time accuracy, and stability. Application to model problems and to the incompressible laminar Navier-Stokes equations. Validation techniques for CFD codes. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Mon Thu  10:00 a.m. - 11:00 a.m.

MECH_V 587-L1A  Computational Fluid Dynamics  W1  Analytical, computational, and experimental methods in fluid mechanics. Overview of CFD program development. Finite volume methods, special discretization and spatial accuracy analysis. Boundary conditions. Time advance methods, time accuracy, and stability. Application to model problems and to the incompressible laminar Navier-Stokes equations. Validation techniques for CFD codes. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Tue  1:00 p.m. - 2:00 p.m.

MECH_V 597-W_101  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  Mon Wed Fri  Arranged

MECH_V 597-W_201  Project for M.Eng. Studies  W2  Project on assigned topic of specialization. For students registered in the M.Eng. program whose project is supervised by a faculty member in the department of Mechanical Engineering. This course is not eligible for Credit/D/Fail grading.  In Person Learning  Arranged  Arranged
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<td>8:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>MEDD_V 419-001</td>
<td>Foundations of Scholarship and Flexible Enhanced Learning I</td>
<td>W1-2</td>
<td>Hybrid Learning</td>
<td>Mon</td>
<td>1:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>MEDD_V 421-001</td>
<td>Foundations of Medical Practice III</td>
<td>W1</td>
<td>Hybrid Learning</td>
<td>Min Tue Wed Thu Fri</td>
<td>8:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>MEDD_V 422-001</td>
<td>Transition into Clinical Education</td>
<td>W2</td>
<td>Hybrid Learning</td>
<td>Min Tue Wed Thu Fri</td>
<td>8:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>MEDD_V 429-001</td>
<td>Flexible Enhanced Learning II</td>
<td>W1-2</td>
<td>Hybrid Learning</td>
<td>Mon</td>
<td>1:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>MEDD_V 431-001</td>
<td>Clerkship</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Arranged</td>
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</tbody>
</table>
MEDD_V 440-001  
A_P 001  
Senior Elective  
W1-2  
Seminars. Electives encompass 6 months of four of the 10 required seminar courses. Students will choose from available electives between 2 and 6 weeks in duration and participate in all relevant clinical and academic activities associated with those electives. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

MEDD_V 448-001  
A_P 001  
Transition into Postgraduate Education and Practice  
W1-2  
Enables students to effectively transition from medical school to residency and medical practice. Complete clinical presentations that integrate foundational science and practice themes. Prepare students for practice as residents and physicians. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

MEDD_V 449-001  
A_P 001  
Flexible Enhanced Learning III  
W1  
Opportunity to build on scholarly activities initiated in MEDD 419 and 429, or start new ones. Emphasizes social accountability and fosters innovation and critical thought to prepare graduates for roles as scholars, lifelong learners, and leaders. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

MEDD_V 451-001  
A_P 001  
Clinical Skills IV  
W2  
Final examination for fourth year encompassing all clinical subjects. 

MEDD_V 419-001  
A_P 001  
Developmental Origins of Human Disorders  
W1  
Genetic and epigenetic determinants of development from conception to birth. Topics include development of the major fetal, heart, extremities, brain, eye, limb, and skin. Genetic and epigenetic causes of congenital anomalies, epigenetic imprinting, placental complications, chromosomal abnormalities and general diagnosis. Discussions based on published research articles. (3-0-0) Prerequisite: One of BIOC 310, BIOC 214 and one of BIOC 301, BIOC 305. A standing of "A" or higher recommended.

MEDD_V 430-001  
A_P 001  
Human Genomics and Medical Genetics  
W1  
In depth investigation of structure and regulation, genetic and epigenetic variation, genome and epigenome analysis, stem cell genetics, personalized genetics, pharmacogenetics and genomics. Recommended pre-requisite: BIOC 305. This course is not eligible for Credit/D/Fail grading.

MEDD_V 421-001  
A_P 001  
Genetics and Cell Biology of Cancer  
W2  
A supervised individual program of study of a topic to be agreed upon by a member of faculty and the student. Permission of the appropriate supervisor and the department head is required.

MEDD_V 448-A_001  
A_P 001  
Directed Studies  
W1  
A supervised individual program of study of a topic to be agreed upon by a member of faculty and the student. Permission of the appropriate supervisor and the department head is required.

MEDD_V 448-B_001  
A_P 001  
Directed Studies  
W2  
A supervised individual program of study of a topic to be agreed upon by a member of faculty and the student. Permission of the appropriate supervisor and the department head is required.

MEDD_V 448-C_002  
A_P 001  
Directed Studies  
W1-2  
A supervised individual program of study of a topic to be agreed upon by a member of faculty and the student. Permission of the appropriate supervisor and the department head is required.

MEDD_V 405-001  
A_P 001  
Genome Analysis  
W2  
Investigation of genetic information as it is organized within genomes, genetic and physical map construction, sequencing technology, genome identification, database access and integration, functional organization of genomes from contemporary, historic and evolutionary perspectives. Recommended pre-requisite: BIOC 214. This course is not eligible for Credit/D/Fail grading.

MEDD_V 520-001  
A_P 001  
Advanced Human Molecular Genetics  
W1  
Advanced topics in transcriptional and translational regulation, cancer genetics, personalized genetics, pharmacogenetics and genomics. Recommended pre-requisite: BIOC 305. This course is not eligible for Credit/D/Fail grading. (3-0-0) Prerequisite: All of BIOC 305 and BIOC 301. A standing of "A" or higher is recommended, however, higher grades take priority in the registration process.

MEDD_V 521-001  
A_P 001  
Molecular and Cell Biology of Cancer  
W2  
Focuses on molecular and cell biology of cancer through a series of lectures, reviews, student presentations and discussion. Recommended pre-requisite: One of BIOC 214, BIOC 310, BIOC 315, or consent of instructor. This course is not eligible for Credit/D/Fail grading. (3-0-0) Prerequisite: All of BIOC 305 and BIOC 301.

MEDD_V 525-001  
A_P 001  
Data analysis in Medical Genetics and Genomics  
W1  
Methodology in data analysis applicable to the study of human genes, traits or diseases. Includes computer programming, foundational biostatistics, and data science methods. (3-0-0) Prerequisite: All of BIOC 305 and BIOC 301. Methodology in data analysis applicable to the study of human genes, traits or diseases. Includes computer programming, foundational biostatistics, and data science methods. (3-0-0) Prerequisite: All of BIOC 305 and BIOC 301. Methodology in data analysis applicable to the study of human genes, traits or diseases. Includes computer programming, foundational biostatistics, and data science methods. (3-0-0) Prerequisite: All of BIOC 305 and BIOC 301.

MEDD_V 530-001  
A_P 001  
Sequence and structure of the human genome. Human genetic evolution. Identification of genes and genetic loci from disease and traits. Includes conservation of synteny, genetic and physical map construction, sequencing technology, genome identification, database access and integration, functional organization of genomes from contemporary, historic and evolutionary perspectives. Recommended pre-requisite: BIOC 214. This course is not eligible for Credit/D/Fail grading.

MEDD_V 540-001  
A_P 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.

MEDD_V 542-001  
A_P 001  
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.

MEDD_V 545-001  
A_P 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.

MEDD_V 546-A_001  
A_P 001  
Directed Studies  
W1  
A supervised individual program of study of a topic to be agreed upon by a member of faculty and the student. Permission of the appropriate supervisor and the department head is required.

MEDD_V 546-B_001  
A_P 001  
Directed Studies  
W2  
A supervised individual program of study of a topic to be agreed upon by a member of faculty and the student. Permission of the appropriate supervisor and the department head is required.

MEDD_V 546-C_002  
A_P 001  
Directed Studies  
W1-2  
A supervised individual program of study of a topic to be agreed upon by a member of faculty and the student. Permission of the appropriate supervisor and the department head is required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
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<td>MEDG-V 549-001</td>
<td>M.Sc. Thesis</td>
<td>W1-2</td>
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<td>Concepts in Clinical Genetics for Genetic Counselling</td>
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<td>MEDG-V 560-001</td>
<td>Genetic Counselling Seminar</td>
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<td>MEDG-V 565-001</td>
<td>Advanced Genetic Counselling Seminar</td>
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<td>MEDG-V 570-A-001</td>
<td>Introductory Clinical and Laboratory Rotation</td>
<td>W1-2</td>
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<td>MEDG-V 570-001</td>
<td>Advanced Clinical Rotation</td>
<td>W1-2</td>
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<td>MEDG-V 580-101</td>
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<td>MEDG-V 595-101</td>
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<td>MEDG-V 649-001</td>
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<td>W1-2</td>
<td>Pass/Fail</td>
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<td>Pass/Fail</td>
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<tr>
<td>MEDG-V 649-003</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
<td>Pass/Fail</td>
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<tr>
<td>MEDG-V 501-001</td>
<td>Molecular and Cellular Biology of Experimental Medicine</td>
<td>W1</td>
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</tbody>
</table>

Cell and molecular function in normal tissues and specific disease processes, including, genetic, viral, bacterial, immune, and physiological disorders. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.
**MEDI_560-001**  
**MEDI_549-003**  
**MEDI_549-001**  
**MEDI_548-D_008**  
**MEDI_548-C_006**  
**MEDI_548-C_007**  
**MEDI_547-000**  
**MEDI_546-001**  
**MEDI_546-002**  
**MEDI_546-B_002**  
**MEDI_546-B_006**  
**MEDI_546-C_004**  
**MEDI_546-C_006**  
**MEDI_546-A_044**  
**MEDI_546-A_042**  
**MEDI_546-A_040**  
**MEDI_546-A_041**

### MEDI_560-001
**Experimental Medicine Methodology**  
In Person Learning  
W2

Laboratory experience with experimental models of human disease, critical reviews of their relevance. Laboratory rotations, oral presentations and written reviews. Registration requires permission of the Department. This course is not eligible for Credit/D/Fail grading.

### MEDI_549-003
**In Person Learning**  
Directed Studies in Experimental Medicine  
W1

Forming appropriate research questions, appropriate research design, protocol development, key concepts in regulatory approval and human ethical oversight in Canada, privacy and knowledge translation. For students pursuing clinical, patient oriented and translational research. This course is not eligible for Credit/D/Fail grading. Preerequisite: Permission of Experimental Medicine Program Director.

### MEDI_549-001
**In Person Learning**  
Arranged  
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_540-001
**In Person Learning**  
Arranged  
W2

Mechanisms of regulation of acid-base balance, fluid and electrolyte content, excretion of proteins and organic substances in kidney disease; abnormal renal mechanisms in hypertension. This course is not eligible for Credit/D/Fail grading.

### MEDI_535-001
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_530-001
**In Person Learning**  
Arranged  
W2

Pathogenesis and immunological mechanisms in acute and chronic virus infections of the central nervous system; immunologically induced non-infectious neurological disease. This course is not eligible for Credit/D/Fail grading.

### MEDI_520-001
**In Person Learning**  
Arranged  
W2

Fundamental principles of vision from basic physiology to clinical syndromes across the visual pathway spanning the globe, ocular structures including the retina, up to striate and extrastriate cortices. This course is not eligible for Credit/D/Fail grading.

### MEDI_510-001
**In Person Learning**  
Arranged  
W1

Pathogenesis and abnormal physiology in disease of the intestine and accessory organs; carcinogenesis; regulatory peptides; liver disease; inflammatory bowel disease; oesophageal dysmotility. This course is not eligible for Credit/D/Fail grading.

### MEDI_504-A_001
**In Person Learning**  
Arranged  
C

Thresholds of nutrition for optimal health and performance. Normal and organic substances in kidney disease; abnormal renal mechanisms in hypertension. This course is not eligible for Credit/D/Fail grading.

### MEDI_503-001
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_502-001
**In Person Learning**  
Arranged  
C

Pathogenesis and immunological mechanisms in acute and chronic virus infections of the central nervous system; immunologically induced non-infectious neurological disease. This course is not eligible for Credit/D/Fail grading.

### MEDI_501-001
**In Person Learning**  
Arranged  
C

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_500-001
**In Person Learning**  
Arranged  
C

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_598-001
**In Person Learning**  
Arranged  
W2

Pathogenesis and abnormal physiology in disease of the intestine and accessory organs; carcinogenesis; regulatory peptides; liver disease; inflammatory bowel disease; oesophageal dysmotility. This course is not eligible for Credit/D/Fail grading.

### MEDI_597-000
**In Person Learning**  
Arranged  
W1

Framing appropriate research questions, appropriate research designs, protocol development, key concepts in regulatory approval and human ethical oversight in Canada, privacy and knowledge translation. For students pursuing clinical, patient oriented and translational research. This course is not eligible for Credit/D/Fail grading. Pre-requisite: Permission of Experimental Medicine Program Director.

### MEDI_596-000
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_595-000
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_594-000
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_593-000
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_592-000
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_591-000
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_590-000
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_589-000
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_588-000
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_587-000
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_586-000
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_585-000
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_584-000
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.

### MEDI_583-000
**In Person Learning**  
Arranged  
W1

Reviews of research in selected areas of experimental medicine, including presentation of student's own research results. This course is not eligible for Credit/D/Fail grading.
Experimental Medicine: Infectious Diseases

Supervised individual program of directed studies in experimental aspects of pathogenesis, diagnosis and treatment of infectious diseases, and mechanisms of host defence against microbial infections. This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.

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

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

In Person Learning
Mon
3:00 p.m. - 4:00 p.m.

In Person Learning
Mon
3:00 p.m. - 4:00 p.m.

In Person Learning
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3:00 p.m. - 4:00 p.m.
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 BIOI 112, BIOI 200, BMEG 245, SCIE 001.

Dynamics and control of prokaryotic cellular processes in response to the biotic and abiotic environment including metabolic interactions and metabolic cooperation between microorganisms. [3-0-1] Prerequisite: Either (a) one of MICB 211, MICB 201 and one of BIOL 201, BIOC 202, BIOC 203; or (b) BIOT 380.
Molecular Microbiology Laboratory 308 201 12:00 p.m. - 1:00 p.m. 

In Person Learning

Molecular Microbiology Laboratory 308 201 

Mon Wed Fri

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

Introduction to virus structure and replication. Detailed examination of selected viruses including polio, HIV and cancer-causing retroviruses. Development of vaccines and anti-viral drugs, the use of virus vectors to cure genetic diseases. 

[3-0-1] Prerequisite: One of MICB 212, MICB 202, BIOT 380.


[3-0-1] Prerequisite: One of MICB 212, MICB 202.


[3-0-1] Prerequisite: One of MICB 212, MICB 202.


[3-0-1] Prerequisite: One of MICB 212, MICB 202.


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[3-0-1] Prerequisite: One of MICB 212, MICB 202.


[3-0-1] Prerequisite: One of MICB 212, MICB 202.


[3-0-1] Prerequisite: One of MICB 212, MICB 202.
MICB_V 325-201 W2  
**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, MICB 212.  
In Person Learning  
Mon Wed Fri  
11:00 a.m. - 12:30 p.m.

MICB_V 325-T03 W2  
**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, MICB 212.  
In Person Learning  
Fri  
1:00 p.m. - 2:00 p.m.

MICB_V 325-T04 W2  
**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, MICB 212.  
In Person Learning  
Fri  
3:00 p.m. - 4:00 p.m.

MICB_V 325-T05 W2  
**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, MICB 212.  
In Person Learning  
Fri  
3:00 p.m. - 4:00 p.m.

MICB_V 354-T01 W2  
**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. [2-0-0]  
Prerequisite: One of BIOC 112, MICB 211, MICB 301, BIOE 101.  
In Person Learning  
Mon  
2:00 p.m. - 3:00 p.m.

MICB_V 354-T02 W2  
**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. [2-0-0]  
Prerequisite: One of BIOC 112, MICB 211, MICB 301, BIOE 101.  
In Person Learning  
Mon  
3:00 p.m. - 5:00 p.m.

MICB_V 388-610 W1-2  
**Co-operative Work Placement II**

**W1-2**  
Work experience. Restricted to students admitted to the Co-operative Education Program in the Biotechnology or Microbiology and Immunology specializations. Pass/Fail This course is not eligible for Credit/D/Fail grading. Prerequisite: Either (a) one of MICB 211, MICB 301 and one of MICB 212, MICB 202, or (b) BIOC 302.  
In Person Learning  
Arranged  
Arranged

MICB_V 388-620 W1  
**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: Either (a) one of MICB 211, MICB 301 and one of MICB 212, MICB 202, or (b) BIOC 302.  
In Person Learning  
Arranged  
Arranged

MICB_V 402-T01 W1  
**Advanced Immunology**

**W1**  
Molecular basis of lymphocyte development, activation and adhesion, immunogenetics and the major histocompatibility complex.  
Consult the credit exclusion list within the Faculty of Science section of the calendar. [3-0-1]  
Prerequisite: One of MICB 302, BIOC 302.  
In Person Learning  
Tue Thu  
9:30 a.m. - 11:00 a.m.

MICB_V 402-T01 W1  
**Advanced Immunology**

**W1**  
Molecular basis of lymphocyte development, activation and adhesion, immunogenetics and the major histocompatibility complex.  
Consult the credit exclusion list within the Faculty of Science section of the calendar. [3-0-1]  
Prerequisite: One of MICB 302, BIOC 302.  
In Person Learning  
Tue Thu  
2:00 p.m. - 3:00 p.m.

MICB_V 402-T01 W1  
**Advanced Immunology**

**W1**  
Molecular basis of lymphocyte development, activation and adhesion, immunogenetics and the major histocompatibility complex.  
Consult the credit exclusion list within the Faculty of Science section of the calendar. [3-0-1]  
Prerequisite: One of MICB 302, BIOC 302.  
In Person Learning  
Tue Thu  
2:00 p.m. - 3:00 p.m.

MICB_V 404-201 W2  
**Topics in Molecular Bacterial Pathogenesis**

**W2**  
A lecture/discussion/library research course. Topics such as antibiotic resistance, pathogen mechanisms, resistance mechanisms.  
Consult the credit exclusion list within the Faculty of Science section of the calendar. [3-0-1]  
Prerequisite: One of MICB 302, BIOC 302.  
In Person Learning  
Mon Wed Fri  
11:00 a.m. - 12:30 p.m.

MICB_V 404-202 W2  
**Topics in Molecular Bacterial Pathogenesis**

**W2**  
A lecture/discussion/library research course. Topics such as antibiotic resistance, pathogen mechanisms, resistance mechanisms.  
Consult the credit exclusion list within the Faculty of Science section of the calendar. [3-0-1]  
Prerequisite: One of MICB 302, BIOC 302.  
In Person Learning  
Arranged  
Arranged

MICB_V 405-101 W1  
**Bioinformatics**

**W1**  
Computational methods to analyze genome and protein sequences to derive structural and functional information. Related topics in functional genomics. [3-0-0]  
Prerequisite: One of MICB 301, MICB 302, BIOC 302, BIOC 303, BIOC 325, BIOC 326.  
In Person Learning  
Tue Thu  
12:30 p.m. - 2:00 p.m.

MICB_V 405-T01 W1  
**Bioinformatics**

**W1**  
Computational methods to analyze genome and protein sequences to derive structural and functional information. Related topics in functional genomics. [3-0-0]  
Prerequisite: One of MICB 301, MICB 302, BIOC 302, BIOC 303, BIOC 325, BIOC 326.  
In Person Learning  
Fri  
10:00 a.m. - 11:00 a.m.

MICB_V 405-T02 W1  
**Bioinformatics**

**W1**  
Computational methods to analyze genome and protein sequences to derive structural and functional information. Related topics in functional genomics. [3-0-0]  
Prerequisite: One of MICB 301, MICB 302, BIOC 302, BIOC 303, BIOC 325, BIOC 326.  
In Person Learning  
Fri  
2:00 p.m. - 3:00 p.m.

MICB_V 406-201 W2  
**Topics in Molecular Virology**

**W2**  
Topics such as molecular targets in virology, chronic viral infection, virus-host cell interaction.  
Consult the credit exclusion list within the Faculty of Science section of the Calendar. [3-0-0]  
Prerequisite: MICB 325.  
In Person Learning  
Wed Fri  
11:00 a.m. - 12:30 p.m.

MICB_V 406-202 W2  
**Topics in Molecular Virology**

**W2**  
Interactions between viruses and humans; pathogenesis, persistence and viral oncogenesis, virological diagnosis and treatment. Consult the Credit Exclusion list within the Faculty of Science section of the Calendar. [3-0-0]  
Prerequisite: MICB 325.  
In Person Learning  
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MICB_V 407-101 W1  
**Viruses in Humans.**

**W1**  
Current and emerging themes in viral pathogenesis, including virological, molecular and cell biology processes and their role in virulence including evasion systems to deliver virulence factors and immune evasion strategies employed by pathogens. Development of antibiotics and resistance to antibiotics. [3-0-0]  
Prerequisite: MICB 306.  
In Person Learning  
Mon Wed Fri  
10:00 a.m. - 11:30 a.m.
MICB_V 413-201 MICB_V 413-202 Topics in Immunological Research W2 Presentations, library research, paper reviews and class discussion on selected areas of advanced molecular and cellular immunological research. [1-0-4] Prerequisite: [MICB302] AND [MICB402, MEDG410].

In Person Learning Thu Tue 8:30 a.m. - 11:00 a.m.

MICB_V 413-302 MICB_V 413-301 Topics in Immunological Research W2 Critical evaluation and discussion of contemporary research literature concerning the impact of host-associated microbiomes on host development, health and diseases with a focus on humans. Priority given to students in Microbiology and Immunology specializations. [3-0-0] Prerequisite: Either MICB 302 and one of MICB 370, MEDG 305, 401, 410, or (B) (WOT 380). And fourth-year standing in Science.

In Person Learning Wed 1:30 p.m. - 5:30 p.m.

MICB_V 413-302 MICB_V 413-301 Topics in Microbiome Research W2 Critical evaluation and discussion of contemporary research literature concerning the impact of host-associated microbiomes on host development, health and diseases with a focus on humans. Priority given to students in Microbiology and Immunology specializations. [3-0-0] Prerequisite: Either MICB 301 and one of MICB 370, MICB 325, 401, 410, or (B) (WOT 380). And fourth-year standing in Science.

In Person Learning Wed 1:30 p.m. - 5:30 p.m.

MICB_V 418-201 MICB_V 418-201 Industrial Microbiology and Biotechnology W2 Exploration of microbial and animal cells for the industrial production of chemicals ranging from alcohols to therapeutic proteins. Genetic manipulation of cellular characteristics, fermentation methods, patenting and governmental approval processes. [3-0-0] Prerequisite: One of MICB 315, MICB 325, BROT 380.

In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

MICB_V 418-T01 MICB_V 418-T02 Industrial Microbiology and Biotechnology W2 Exploration of microbial and animal cells for the industrial production of chemicals ranging from alcohols to therapeutic proteins. Genetic manipulation of cellular characteristics, fermentation methods, patenting and governmental approval processes. [3-0-0] Prerequisite: One of MICB 315, MICB 325, BROT 380.

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

MICB_V 425-201 MICB_V 425-201 Microbial Ecological Genetics W2 Student seminars on selected papers from the microbiological literature. Compulsory for Honours students. Major students may enrol with permission of the department head. The credit value for this course will be determined in consultation with the student prior to the registration. Prerequisite: Either (a) MICB 323 or (b) all of MICB 322, MICB 399.

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

MICB_V 430-A_101 MICB_V 430-A_102 Seminar in Microbiological Literature W1 Student seminars on selected papers from the microbiological literature. Compulsory for Honours students. Major students may enrol with permission of the department head. The credit value for this course will be determined in consultation with the student prior to the registration. Prerequisite: Either (a) MICB 323 or (b) all of MICB 322, MICB 399.

In Person Learning Wed Fri 12:30 p.m. - 2:00 p.m.

MICB_V 430-B_201 MICB_V 430-B_202 Seminar in Microbiological Literature W2 Student seminars on selected papers from the microbiological literature. Compulsory for Honours students. Major students may enrol with permission of the department head. The credit value for this course will be determined in consultation with the student prior to the registration. Prerequisite: Either (a) MICB 323 or (b) all of MICB 322, MICB 399.

In Person Learning Wed Fri 12:00 p.m. - 1:30 p.m.

MICB_V 430-C_202 Seminar in Microbiological Literature W2 Student seminars on selected papers from the microbiological literature. Compulsory for Honours students. Major students may enrol with permission of the department head. The credit value for this course will be determined in consultation with the student prior to the registration. Prerequisite: Either (a) MICB 323 or (b) all of MICB 322, MICB 399.

In Person Learning Arranged Arranged

MICB_V 448-B_201 MICB_V 448-B_202 Directed Research W2 A library (3 credits) or laboratory (3 or 6 credits) project. Requires permission of the Undergraduate Advisor. The results are presented in a written report to be reviewed by oral examination. Prerequisite: Either (a) MICB 325 or (b) all of MICB 322, MICB 399.

In Person Learning Arranged Arranged

MICB_V 448-C_202 Directed Research W2 A library (3 credits) or laboratory (3 or 6 credits) project. Requires permission of the Undergraduate Advisor. The results are presented in a written report to be reviewed by oral examination. Prerequisite: Either (a) MICB 325 or (b) all of MICB 322, MICB 399.

In Person Learning Arranged Arranged

MICB_V 448-D_201 Directed Research W2 A library (3 credits) or laboratory (3 or 6 credits) project. Requires permission of the Undergraduate Advisor. The results are presented in a written report to be reviewed by oral examination. Prerequisite: Either (a) MICB 325 or (b) all of MICB 322, MICB 399.

In Person Learning Arranged Arranged

MICB_V 448-E_201 Directed Research W2 A library (3 credits) or laboratory (3 or 6 credits) project. Requires permission of the Undergraduate Advisor. The results are presented in a written report to be reviewed by oral examination. Prerequisite: Either (a) MICB 325 or (b) all of MICB 322, MICB 399.

In Person Learning Arranged Arranged

MICB_V 448-F_201 Directed Research W2 A library (3 credits) or laboratory (3 or 6 credits) project. Requires permission of the Undergraduate Advisor. The results are presented in a written report to be reviewed by oral examination. Prerequisite: Either (a) MICB 325 or (b) all of MICB 322, MICB 399.

In Person Learning Arranged Arranged

MICB_V 459-001 Directed Research W1-2 A research project, to be reviewed by oral examination. Prerequisite: Either (a) MICB 325 or (b) all of MICB 322, MICB 399.

In Person Learning Arranged Arranged

MICB_V 471-101 Laboratory Research in Microbiology and Immunology W1 A team-based laboratory research experience in microbiology and immunology. [2-4-0] Prerequisite: One of MICB 323, BROT 380.

In Person Learning Mon 3:00 p.m. - 5:00 p.m.

MICB_V 471-201 Laboratory Research in Microbiology and Immunology W2 A team-based laboratory research experience in microbiology and immunology. [2-4-0] Prerequisite: One of MICB 323, BROT 380.

In Person Learning Mon 3:00 p.m. - 5:00 p.m.
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<th>Code</th>
<th>Title</th>
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<th>Term</th>
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<td>MICB_Y 471-101</td>
<td>Laboratory Research in Microbiology and Immunology</td>
<td>In Person Learning</td>
<td>W1</td>
<td>8:00 a.m. - 9:30 a.m.</td>
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<td>MICB_Y 471-102</td>
<td>Laboratory Research in Microbiology and Immunology</td>
<td>In Person Learning</td>
<td>W1</td>
<td>1:00 p.m. - 5:00 p.m.</td>
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<td>MICB_Y 471-103</td>
<td>Laboratory Research in Microbiology and Immunology</td>
<td>In Person Learning</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>MICB_Y 471-104</td>
<td>Laboratory Research in Microbiology and Immunology</td>
<td>In Person Learning</td>
<td>W2</td>
<td>1:30 p.m. - 4:30 p.m.</td>
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<td>MICB_Y 471-105</td>
<td>Laboratory Research in Microbiology and Immunology</td>
<td>In Person Learning</td>
<td>W1</td>
<td>1:00 p.m. - 5:00 p.m.</td>
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<td>MICB_Y 471-106</td>
<td>Laboratory Research in Microbiology and Immunology</td>
<td>In Person Learning</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>MICB_Y 471-107</td>
<td>Data Science Research in Microbiology and Immunology</td>
<td>In Person Learning</td>
<td>W1</td>
<td>8:00 a.m. - 9:30 a.m.</td>
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<td>MICB_Y 475-201</td>
<td>Co-operative Work Placement</td>
<td>Co-operative</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>MICB_Y 475-202</td>
<td>Co-operative Work Placement</td>
<td>Co-operative</td>
<td>W2</td>
<td>1:30 p.m. - 4:30 p.m.</td>
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<td>Co-operative</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>MICB_Y 475-204</td>
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<td>Co-operative</td>
<td>W2</td>
<td>1:30 p.m. - 4:30 p.m.</td>
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<td>MICB_Y 475-205</td>
<td>Co-operative Work Placement</td>
<td>Co-operative</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>MICB_Y 475-206</td>
<td>Co-operative Work Placement</td>
<td>Co-operative</td>
<td>W2</td>
<td>1:30 p.m. - 4:30 p.m.</td>
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<td>MICB_Y 475-207</td>
<td>Advanced Immunogenetics</td>
<td>In Person Learning</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>MICB_Y 506_A_102</td>
<td>Microbiological and Immunological Research</td>
<td>In Person Learning</td>
<td>W1</td>
<td>8:00 a.m. - 9:30 a.m.</td>
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<td>MICB_Y 506_B_201</td>
<td>Microbiological and Immunological Research</td>
<td>In Person Learning</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>MICB_Y 507-101</td>
<td>Topics in Molecular Pathogenesis and Immunology</td>
<td>In Person Learning</td>
<td>W1</td>
<td>1:00 p.m. - 4:30 p.m.</td>
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<td>MICB_Y 507-201</td>
<td>Topics in Molecular Pathogenesis and Immunology</td>
<td>In Person Learning</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>MICB_Y 520_A_101</td>
<td>Topics in Microbiology, Immunology and Virology</td>
<td>In Person Learning</td>
<td>W1</td>
<td>8:00 a.m. - 9:30 a.m.</td>
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<td>MICB_Y 520_B_201</td>
<td>Topics in Microbiology, Immunology and Virology</td>
<td>In Person Learning</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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This course is not eligible for Credit/D/Fail grading.
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<td>MICB_V 520-C_202</td>
<td>Topics in Microbiology, Immunology and Virology</td>
<td>W2</td>
<td></td>
<td></td>
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<td>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.</td>
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<tr>
<td>MICB_V 530-101</td>
<td>MICB_V 530-101 Student Seminars in Microbiology, Immunology, and Virology</td>
<td>W1</td>
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<td>Student seminars on selected papers from the microbiology, immunology and virology literature. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>MICB_V 549-001</td>
<td>M Sc. 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>MICB_V 549-101</td>
<td>M Sc. 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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<tr>
<td>MICB_V 575-101</td>
<td>Data Science Research in Microbiology and Immunology</td>
<td>W1</td>
<td></td>
<td></td>
<td></td>
<td>A team-based data science research experience in microbiology and immunology. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list</a>. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>MICB_V 575-201</td>
<td>Data Science Research in Microbiology and Immunology</td>
<td>W1</td>
<td></td>
<td></td>
<td></td>
<td>A team-based data science research experience in microbiology and immunology. Please consult the Faculty of Science Credit Exclusion List: <a href="https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list">https://vancouver.calendar.ubc.ca/faculties-colleges-and-schools/faculty-science/bachelor-science/credit-exclusion-list</a>. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>649-001</td>
<td>Doctoral Dissertation</td>
<td>W1-2</td>
<td></td>
<td></td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>649-101</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td></td>
<td></td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>649-101</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td></td>
<td></td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>649-201</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td></td>
<td></td>
<td></td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>101-001</td>
<td>MICW_V 101-001 Counseling for Maternity Care Providers</td>
<td>W2</td>
<td></td>
<td></td>
<td></td>
<td>Theory, knowledge, strategies, and skills of person-centered counseling including family systems, trauma therapy, grief counseling, motivational interviewing skills, self-awareness and mindfulness, interprofessional communication, and cultural competency in continuity of care. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>102-001</td>
<td>MICW_V 102-001 Birth and Its Meanings</td>
<td>W1</td>
<td></td>
<td></td>
<td></td>
<td>An interdisciplinary study of pregnancy and childbirth drawing on and integrating the disciplines of psychology, sociology, philosophy of science, anthropology, women's studies, and cultural studies. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>103-001</td>
<td>MICW_V 103-001 Applied Health Services for Maternity Providers</td>
<td>W1</td>
<td></td>
<td></td>
<td></td>
<td>Introduction to diagnoses related to cellular and humoral immune responses in pregnant women and newborns; the properties of viruses, epidemiology, the principles of bacterial pathogenesis, and related physiologic responses. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>104-001</td>
<td>MICW_V 104-001 Lactation and Infant Feeding for Maternity Care Providers</td>
<td>W1</td>
<td></td>
<td></td>
<td></td>
<td>Breastfeeding physiology, pathophysiology, and strategies for support of the dyad based on best-practice principles. Discussion of major Canadian and international initiatives for the support and protection of breastfeeding. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>105-001</td>
<td>MICW_V 105-001 Reproductive Anatomy and Physiology</td>
<td>W1</td>
<td></td>
<td></td>
<td></td>
<td>Covers the anatomy and physiology of conception, fetal growth, pregnancy, labor, birth, transition to extra-uterine life, postpartum and lactation through lectures and lab sessions. Emphasizes anatomy and physiology in relation to professional midwifery practice. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>107-001</td>
<td>MICW_V 107-001 Physical Assessment</td>
<td>W1</td>
<td></td>
<td></td>
<td></td>
<td>Principles of physical and psychological assessment of the mother and neonate. A series of lectures and clinical lab sessions. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>108-002</td>
<td>MICW_V 108-002 Theoretical Foundations for Midwifery Practice</td>
<td>W2</td>
<td></td>
<td></td>
<td></td>
<td>Scope of practice of a midwife, regulatory framework, skills for basic midwifery practice. A series of lectures and clinical lab sessions. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>115-001</td>
<td>MICW_V 115-001 Research Methods for Midwives</td>
<td>W2</td>
<td></td>
<td></td>
<td></td>
<td>Research designs used in midwifery research; types of studies reported in the midwifery and health care literature; research methodology and basic principles of epidemiology, biostatistics and social research. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>120-001</td>
<td>MICW_V 120-001 Midwifery and Socialization</td>
<td>W2</td>
<td></td>
<td></td>
<td></td>
<td>Social justice frameworks and issues as they pertain to individuals' engagement with health care systems. Draws on various disciplines, including sociology, anthropology, gender studies, and cultural studies. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>125-001</td>
<td>MICW_V 125-001 Pharmacology for Maternity Care Providers</td>
<td>W2</td>
<td></td>
<td></td>
<td></td>
<td>An overview of basic concepts in pharmacology, pharmacy, and therapeutics relevant to the practice of midwifery in Canada. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>200-001</td>
<td>MICW_V 200-001 Midwifery Clinical Care - Antepartum, Postpartum and Newborn</td>
<td>W1</td>
<td></td>
<td></td>
<td></td>
<td>Clinical care of women experiencing normal pregnancy, labor, birth, and puerperium. Clinical education experiences in prevention and therapeutic midwifery care with emphasis on prenatal and postnatal midwifery care. Clinical practice education opportunities within the province. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>201-001</td>
<td>MICW_V 201-001 Midwifery Theory for Antepartum, Postpartum and Newborn Care</td>
<td>W1</td>
<td></td>
<td></td>
<td></td>
<td>Online situation-based learning tutorials occurring simultaneously with MICW 200 clinical placement. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
</tbody>
</table>
In Person Learning

**MIDW_V 210-001**
Evidence-Informed Midwifery

Principles of evidence-informed midwifery, what counts as evidence? Making sense of the evidence, applying the evidence in practice. This course is not eligible for Credit/D/Fail grading.

**MIDW_V 215-001**
Ethics in Midwifery Care

Application of ethical theory in midwifery and health care management. [3-0-0]

**MIDW_V 220-001**
Midwifery Theory for Primary Care

Care of normal pregnancy, labour, birth, and puerperium with an emphasis on the intrapartum period and assessment and management skills. Includes a four-week intensive session in Vancouver, a series of online tutorials, and simulation and skills lab practices. This course is not eligible for Credit/D/Fail grading.

**MIDW_V 230-001**
Midwifery Theory for Primary Care

Care of normal pregnancy, labour, birth, and puerperium with an emphasis on the intrapartum period and assessment and management skills. A clinical practicum in locations around the province. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**MIDW_V 240-002**
Midwifery Clinical Care - Intrapartum and Postpartum

Clinical education experiences with the preventative and therapeutic midwifery care of normal pregnancy, labour, birth, and puerperium with an emphasis in the intrapartum period and assessment and management skills. A clinical practicum in locations around the province. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**MIDW_V 230-001**
Midwifery Theory for Primary Care

Clinical education experiences with the preventative and therapeutic midwifery care of normal pregnancy, labour, birth, and 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.

**MIDW_V 210-001**
Midwifery Theory for Variations in Primary Care

Theoretical principles of care for pregnancy, birth, and the puerperium with an emphasis on the recognition and management of variations of normal and findings outside of normal. Consists of a two-week intensive time in Vancouver, during which emergency skills certification is acquired, and weekly web-based tutorials. [3-0-0]

**MIDW_V 222-002**
Midwifery Primary Care Clinical

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.

**MIDW_V 232-002**
Midwifery Primary Care Clinical

Professional issues in midwifery including responsibilities and conduct, self-care, peer review, interprofessional relations and communication, legal and business concepts, and continuous quality assurance and improvement in practice. A series of lectures and workshop delivered within an intensive 5, 6, or 6-weeks. This course is delivered through synchronous and asynchronous online coursework while learners are in distributed clinical placements.

**MIDW_V 234-001**
Dialogue and Decisions: Advancing Person-Centred Care

Built knowledge and competencies to navigate complex human interactions around decisions in health care. Flexible, online course for health professionals. Learning solutions include small group, cross-profession discussions, best practice videos, case-based and self-reflection exercises, and a simulation. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**MIDW_V 236-001**
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.

**MIDW_V 315-001**
Clinical Clerkship

Midwifery Primary Care Clinical

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.

**MIDW_V 325-001**
Midwifery Clinical Care - Intrapartum and Postpartum

Clinical education experiences with the preventative and therapeutic midwifery care of normal pregnancy, labour, birth, and puerperium with an emphasis in the intrapartum period and assessment and management skills. A clinical practicum in locations around the province. Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**MINE_V 200-101**
Introduction to the mining life cycle and the design, planning, operation, and closure of mining systems, with a focus on mining methods, mineral processing, community engagement, and social license to operate. This course is not eligible for Credit/D/Fail grading (3-0-0)

**MINE_V 200-11A**
Introduction to the mining life cycle and the design, planning, operation, and closure of mining systems, with a focus on mining methods, mineral processing, community engagement, and social license to operate. This course is not eligible for Credit/D/Fail grading (3-0-0)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Grading</th>
<th>Meetings</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINE 200-11B</td>
<td>Introduction to the mining life cycle and the design, planning, operation, and closure of mining systems, with a focus on mining methods, mineral processing, community engagement, and social license to operate. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>W1</td>
<td>In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>MINE 201-201</td>
<td>The design, planning, and operation of mining equipment, with a focus on mineral processing technologies, plant design, waste and tailings management, and the future of mining. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>W2</td>
<td>In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>MINE 201-12A</td>
<td>The design, planning, and operation of mining equipment, with a focus on mineral processing technologies, plant design, waste and tailings management, and the future of mining. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>W3</td>
<td>In Person Learning Thu 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>MINE 202-101</td>
<td>Fundamentals of rock and minerals formation. Exploring main techniques used to understand implications of mineralogy in mining and mineral processing. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>W4</td>
<td>In Person Learning Tue 2:00 p.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>MINE 202-11A</td>
<td>Fundamentals of rock and minerals formation. Exploring main techniques used to understand implications of mineralogy in mining and mineral processing. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>W5</td>
<td>In Person Learning Wed 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>MINE 202-11B</td>
<td>Fundamentals of rock and minerals formation. Exploring main techniques used to understand implications of mineralogy in mining and mineral processing. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>W6</td>
<td>In Person Learning Mon 9:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>MINE 224-101</td>
<td>Fundamentals of the rock and mineral formation. Exploring main techniques used to understand implications of mineralogy in mining and mineral processing. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>W7</td>
<td>In Person Learning Mon 8:00 a.m. - 9:10 a.m.</td>
</tr>
<tr>
<td>MINE 229-101</td>
<td>Fundamentals of the rock and mineral formation. Exploring main techniques used to understand implications of mineralogy in mining and mineral processing. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>W8</td>
<td>In Person Learning Wed 12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>MINE 301-101</td>
<td>Selection, design, and development of underground mining methods based on physical, geological, economic, and environmental constraints. Underground excavation methods and equipment selection. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>W9</td>
<td>In Person Learning Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>MINE 302-101</td>
<td>Selection, design, and development of underground mining methods based on physical, geological, economic, and environmental constraints. Underground excavation methods and equipment selection. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>W10</td>
<td>In Person Learning Thu 9:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>MINE 303-201</td>
<td>The study of the mechanical and structural properties of rock materials at the laboratory and field scale, with reference to common mining, geological and civil engineering problems. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>W11</td>
<td>In Person Learning Thu 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>MINE 303-12A</td>
<td>The study of the mechanical and structural properties of rock materials at the laboratory and field scale, with reference to common mining, geological and civil engineering problems. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>W12</td>
<td>In Person Learning Fri 9:00 a.m. - 11:10 a.m.</td>
</tr>
<tr>
<td>MINE 303-12B</td>
<td>The study of the mechanical and structural properties of rock materials at the laboratory and field scale, with reference to common mining, geological and civil engineering problems. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>W13</td>
<td>In Person Learning Fri 1:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>MINE 310-101</td>
<td>Surface mining methods, calculation of pit limits, cutoff grades, 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.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>W14</td>
<td>In Person Learning Tue 10:00 a.m. - 11:30 a.m.</td>
</tr>
<tr>
<td>MINE 311-101</td>
<td>Surface mining methods, calculation of pit limits, cutoff grades, 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.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>W15</td>
<td>In Person Learning Fri 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>MINE 331-101</td>
<td>Mined ore processing unit operations and sampling, crushing, grinding, screening, classification, gravity separation, magnetic separation, electrostatic separation, concentrate dewatering practices.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>MINE 351-101</td>
<td>In Person Learning Mon 8:00 a.m. - 9:10 a.m.</td>
</tr>
<tr>
<td>MINE 331-11A</td>
<td>Mined ore processing unit operations and sampling, crushing, grinding, screening, classification, gravity separation, magnetic separation, electrostatic separation, concentrate dewatering practices.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>MINE 351-11A</td>
<td>In Person Learning Tue 1:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>MINE 332-101</td>
<td>Theory and technology of flotation and ancillary processes. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>MINE 352-101</td>
<td>In Person Learning Tue 8:00 a.m. - 9:00 a.m.</td>
</tr>
<tr>
<td>MINE 332-12A</td>
<td>Theory and technology of flotation and ancillary processes. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>MINE 352-12A</td>
<td>In Person Learning Wed 1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>MINE 350-101</td>
<td>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.</td>
<td>2-2-0</td>
<td>MINE 200</td>
<td>MINE 350-101</td>
<td>In Person Learning Thu 12:00 p.m. - 1:00 p.m.</td>
</tr>
<tr>
<td>MINE 350-11A</td>
<td>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.</td>
<td>2-2-0</td>
<td>MINE 200</td>
<td>MINE 350-11A</td>
<td>In Person Learning Thu 3:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>MINE 380-201</td>
<td>Basic geological, hydrological, and water management aspects of mine waste management. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>MINE 380-201</td>
<td>In Person Learning Tue Thu 2:00 p.m. - 3:10 p.m.</td>
</tr>
<tr>
<td>MINE 396-101</td>
<td>Basic geological, hydrological, and water management aspects of mine waste management. This course is not eligible for Credit/D/Fail grading.</td>
<td>3-2-0</td>
<td>MINE 200</td>
<td>MINE 396-101</td>
<td>In Person Learning Thu 8:00 a.m. - 9:10 a.m.</td>
</tr>
</tbody>
</table>
Cave Mining Systems: Design and Planning

MINE 485-201

W2

201

Mine Ventilation and Occupational Health and Safety

W1

Design and analysis for ventilation systems for mining. Topics such as ventilation design, ventilation surveys, thermodynamic aspects, psychometry of air and air conditioning. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: Fourth-year standing.
In Person Learning
Fri
3:00 p.m. - 5:00 p.m.

MINE 483-201

W2

201

Rock Engineering Design

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. 
Prerequisite: Fourth-year standing.
In Person Learning
Thu
9:30 a.m. - 11:00 a.m.

MINE 404-201

W2

201

Strategic Issues in Mining

Strategic issues in the organization, types of organizations, personal evaluations and job rating systems, impact of manpower planning on decisions, union negotiations, public relations, dealing with the media, corporate responsibilities to society and employees. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: Third-year standing.
In Person Learning
Mon
3:00 p.m. - 5:00 p.m.

MINE 406-201

W2

201

Mine Project Valuation and Risk Assessment

Mine economics and finance. Analytical tools and techniques used in the valuation of mining companies and the financial analysis and risk assessment methods. 
Prerequisite: MINE 202.
In Person Learning
Thu
5:00 p.m. - 8:00 p.m.

MINE 420-201

W2

201

Applied Geostatistics

Geostatistical analysis and simulation of spatial-temporal phenomena in natural and engineered systems with applications to mining problems. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: STAT 251.
In Person Learning
Mon
11:00 a.m. - 12:30 p.m.

MINE 420-12A

W2

Applied Geostatistics

Geostatistical analysis and simulation of spatial-temporal phenomena in natural and engineered systems with applications to mining problems. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: STAT 251.
In Person Learning
Arranged
Arranged

MINE 432-101

W1

301

Mineral Process Control

Interparticle forces; DLVO theory of colloid stability; dispersion, coagulation, and flocculation phenomena; setting; thickening aids consolidation processes; polyanions in mineral processing; measurement techniques in tailings treatment; thickness and principles of operation; industrial practice. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: Third-year standing.
In Person Learning
Thu
11:00 a.m. - 12:30 p.m.

MINE 432-11A

W1

301

Mineral Process Control

Interparticle forces; DLVO theory of colloid stability; dispersion, coagulation, and flocculation phenomena; setting; thickening aids consolidation processes; polyanions in mineral processing; measurement techniques in tailings treatment; thickness and principles of operation; industrial practice. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: Third-year standing.
In Person Learning
Wed
10:00 a.m. - 11:30 a.m.

MINE 434-201

W2

201

Processing Precious Metal Ores

Process alternatives and mineralogical considerations; physical and chemical recovery technologies; environmental protection; flowsheet studies. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: MINE 311.
In Person Learning
Fri
9:00 a.m. - 10:00 a.m.

MINE 434-12A

W2

201

Processing Precious Metal Ores

Process alternatives and mineralogical considerations; physical and chemical recovery technologies; environmental protection; flowsheet studies. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: MINE 311.
In Person Learning
Fri
3:00 p.m. - 5:00 p.m.

MINE 468-201

W2

201

Urban Mining: Recovering Value From E-waste

Technological and social issues related to the recovery of value from e-waste seen through the eyes of engineers, social scientists and economists. Recovery of valuable materials in the context of circular economy to provide sustainable solutions for our planet. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: Third-year standing.
In Person Learning
Wed
2:00 p.m. - 4:00 p.m.

MINE 468-11A

W2

201

Urban Mining: Recovering Value From E-waste

Technological and social issues related to the recovery of value from e-waste seen through the eyes of engineers, social scientists and economists. Recovery of valuable materials in the context of circular economy to provide sustainable solutions for our planet. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: Third-year standing.
In Person Learning
Fri
3:00 p.m. - 5:00 p.m.

MINE 467-101

W1

301

Dewatering of Fine Tailings

Interparticle forces; DLVO theory of colloid stability; dispersion, coagulation, and flocculation phenomena; setting; thickening aids consolidation processes; polyanions in mineral processing; measurement techniques in tailings treatment; thickness and principles of operation; industrial practice. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: Third-year standing.
In Person Learning
Mon Wed
8:00 a.m. - 10:00 a.m.

MINE 467-11A

W1

301

Dewatering of Fine Tailings

Interparticle forces; DLVO theory of colloid stability; dispersion, coagulation, and flocculation phenomena; setting; thickening aids consolidation processes; polyanions in mineral processing; measurement techniques in tailings treatment; thickness and principles of operation; industrial practice. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: Third-year standing.
In Person Learning
Arranged
Arranged

MINE 465-201

W2

201

Mine Water Management

Mine water management covering integrated water resource management, water balances, source, water use optimization, water quality and treatment and long term stewardship. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: Third-year standing.
In Person Learning
Thu
2:30 p.m. - 4:00 p.m.

MINE 465-101

W1

301

Materials Handling

Knowledge and understanding of equipment used in mining operations, including (steel) mechanical, hydraulic and pneumatic equipment as well as conveyors, load-haul-dump trucks and pumps. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: Third-year standing.
In Person Learning
Thu
9:30 a.m. - 11:00 a.m.

MINE 465-201

W2

201

Materials Handling

Knowledge and understanding of equipment used in mining operations, including (steel) mechanical, hydraulic and pneumatic equipment as well as conveyors, load-haul-dump trucks and pumps. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: Third-year standing.
In Person Learning
Arranged
Arranged

MINE 470-201

W1

201

Indigenous Peoples and Mining in Canada

Historical context of Indigenous peoples of Canada interactions with the development of mineral resources. Current best practices and systems supporting effective engagement and involvement of Indigenous peoples in the development of mines and mineral resources. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: Third-year standing.
In Person Learning
Tue
5:00 p.m. - 8:00 p.m.

MINE 470-201

W2

201

Indigenous Peoples and Mining in Canada

Historical context of Indigenous peoples of Canada interactions with the development of mineral resources. Current best practices and systems supporting effective engagement and involvement of Indigenous peoples in the development of mines and mineral resources. This course is not eligible for Credit/D/Fail grading. 
Prerequisite: Third-year standing.
In Person Learning
Arranged
Arranged

MINE 485-201

W2

201

Cave Mining Systems: Design and Planning

Design, 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. 
Prerequisite: MINE 311.
In Person Learning
Wed
8:00 a.m. - 11:00 a.m.
In Person Learning
Mining and The Environment
W2 - 8:30 a.m. - 9:30 a.m.
Wed
Fri
Topics for Engineers in the Mining Industry
501 - 3:00 p.m. - 5:00 p.m.
L2A
Advanced Flotation Technology
W1 - 10:00 a.m. - 12:00 p.m.
W1
L1A
In Person Learning
In Person Learning
New Perspectives on Mine Closure
520 - 10:30 a.m. - 1:30 p.m.
W2
In Person Learning
Mine Ventilation
8:00 a.m. - 10:00 a.m.
W2
In Person Learning
In Person Learning
This course is not eligible for Credit/D/Fail grading.
Mine and Plant Engineering Design Feasibility Study
506 - 201 - 3:00 p.m. - 5:00 p.m.
Arranged
In Person Learning
This course is not eligible for Credit/D/Fail grading.
Mine and Plant Engineering Design Feasibility Study
501 - 201 - 8:00 a.m. - 10:00 a.m.
Arranged
In Person Learning
This course is not eligible for Credit/D/Fail grading.
In Person Learning
Mine and Plant Engineering Design Feasibility Study
506 - 201 - 2:00 p.m. - 3:30 p.m.
W2
In Person Learning
This course is not eligible for Credit/D/Fail grading.
In Person Learning
Mine and Plant Engineering Design Feasibility Study
506 - 101 - 10:00 a.m. - 12:00 p.m.
In Person Learning
This course is not eligible for Credit/D/Fail grading.
In Person Learning
Mine and Plant Engineering Design Feasibility Study
506 - 101 - 8:00 a.m. - 11:00 a.m.
In Person Learning
This course is not eligible for Credit/D/Fail grading.
The use of artificial intelligence to solve complex problems in industry. Topics include knowledge acquisition, knowledge representation, knowledge accumulation, and conflict resolution. Credit will be granted for only one of MINE 547 or MINE 578. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Wed  2:00 p.m. - 4:00 p.m.

**MINE V 547-101**

MINE V 547  101  Industrial Expert Systems

Basic geostatistical concepts. Applications of geostatistical techniques and stochastic simulation to orebody modeling and grade control. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Wed  2:00 p.m. - 4:00 p.m.

**MINE V 559-101**

MINE V 559  101  Indigenous Peoples and Mining in Canada

Permission of the instructor is required. This course is not eligible for Credit/D/Fail grading. Prerequisite: MINE 581.

In Person Learning  Tue  5:00 p.m. - 8:00 p.m.

**MINE V 586-101**

MINE V 586  101  Abandoned Mine Waste Management

Advanced geotechnical, hydrological, and water management aspects of mine waste management. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Arranged

**MINE V 587-101**

MINE V 587  101  Abandoned 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.

In Person Learning  Arranged

**MINE V 589-101**

MINE V 589  101  Risk Assessment for Mine Waste Management

Risk assessment and management topics including risk assessment methodologies, risk management, and decision making under risk. This course is not eligible for Credit/D/Fail grading.

Online Learning  Arranged

**MINE V 590-101**

MINE V 590  101  Abandoned 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  Tue  10:00 a.m. - 11:30 a.m.

**MINE V 590-C_101**

MINE V 590  101  Special Advanced Topics

A special advanced course may be arranged upon the approval of the department head. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor is required. The credit value for this course will be determined in consultation with the student prior to the registration.

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

**MINE V 590-E_201**

MINE V 590  201  Special Advanced Topics

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

**MINE V 590-F_101**

MINE V 590  101  Special Advanced Topics

A special advanced course may be arranged upon the approval of the department head. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor is required. The credit value for this course will be determined in consultation with the student prior to the registration.

In Person Learning  Mon-Fri  8:00 a.m. - 9:30 a.m.

**MINE V 590-M_201**

MINE V 590  201  Special Advanced Topics

A special advanced course may be arranged upon the approval of the department head. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of instructor is required. The credit value for this course will be determined in consultation with the student prior to the registration.

In Person Learning  Thu  11:00 a.m. - 12:30 p.m.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Schedule</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINE 510</td>
<td>Seminar/Communication Skills and Workplace Readiness</td>
<td>12:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 511</td>
<td>Engineering Project</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 512</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 513</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 514</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 515</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 516</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 517</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 518</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 519</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 520</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 521</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 522</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 523</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 524</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 525</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
</tr>
<tr>
<td>MINE 526</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
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<tr>
<td>MINE 527</td>
<td>Special Advanced Topics</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Consent of instructor. This course is offered in the Fall and Spring terms.</td>
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MINE_V 609-201 MINE_V 609 201 Doctoral Dissertation W2 In Person Learning Arranged Arranged

MINE_V 400-411 MINE_V 400 A, 411 Directed Studies W1 In Person Learning Arranged Arranged

MINE_V 400-412 MINE_V 400 B, 412 Directed Studies W1 In Person Learning Arranged Arranged

MINE_V 610-610 MINE_V 610 610 Structure and Function in Marine Animals W1 In Person Learning Arranged Arranged

MINE_V 425-610 MINE_V 425 610 Ecological Adaptations of Seaweeds W1 In Person Learning Arranged Arranged

MINE_V 677-610 MINE_V 677 610 Population and Community Ecology of Marine Organisms W1 In Person Learning Arranged Arranged

MINE_V 480-610 MINE_V 480 610 Seminars and Papers in Marine Science W1 In Person Learning Arranged Arranged

MTRL_V 201-201 MTRL_V 201 201 Technical Communication W2 In Person Learning Tue Thu 9:00 a.m. - 10:30 a.m.

MTRL_V 250-201 MTRL_V 250 201 Thermodynamics of Materials I W1 In Person Learning Tue Thu 12:00 p.m. - 2:00 p.m.

MTRL_V 250-21A MTRL_V 250 21A Thermodynamics of Materials I W1 In Person Learning Tue 2:30 p.m. - 4:30 p.m.

MTRL_V 251-201 MTRL_V 251 201 Thermodynamics of Materials II W2 In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.

MTRL_V 251-21A MTRL_V 251 21A Thermodynamics of Materials II W2 In Person Learning Fri 11:00 a.m. - 1:00 p.m.

MTRL_V 260-21A MTRL_V 260 21A Transport Phenomena I - Fluid Mechanics W2 In Person Learning Wed Fri 10:00 a.m. - 11:30 a.m.

MTRL_V 260-201 MTRL_V 260 201 Transport Phenomena I - Fluid Mechanics W2 In Person Learning Mon 3:00 p.m. - 4:00 p.m.

MTRL_V 260-201 MTRL_V 260 201 Materials in Design W2 In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

MTRL_V 260-21A MTRL_V 260 21A Materials in Design W2 In Person Learning Wed 1:00 p.m. - 4:00 p.m.

MTRL_V 320-101 MTRL_V 320 101 Management of Engineering Design W1 In Person Learning Tue 12:00 p.m. - 1:00 p.m.

MTRL_V 320-21A MTRL_V 320 21A Management of Engineering Design W1 In Person Learning Thu 12:00 p.m. - 2:00 p.m.

MTRL_V 340-201 MTRL_V 340 201 Manufacturing in Materials Engineering W2 In Person Learning Mon Wed 4:00 p.m. - 6:00 p.m.

MTRL_V 358-101 MTRL_V 358 101 Hydrometallurgy I W1 In Person Learning Mon Wed 10:00 a.m. - 11:30 a.m.
MTRL 451-L1B 358 T1A Modelling of Materials Processes W1 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 358. In Person Learning Wed 12:00 p.m. - 2:00 p.m.

MTRL 451-101 361 101 Polymers W1 Fundamentals of engineering ceramics focusing on raw materials, forming, orienting properties, characterization, and design with ceramics. This course is not eligible for Credit/D/Fail grading. [3-3*-0] Corequisite: MTRL 365, MTRL 378. In Person Learning Wed 10:00 a.m. - 1:00 p.m., Fri 10:00 a.m. - 12:00 p.m.

MTRL 451-11B 451 11B Microstructural Analysis Laboratory W1 Basic principles and techniques of microstructural analysis with particular reference to engineered materials including x-ray, SEM microprobe TEM and high energy electron analysis. This course is not eligible for Credit/D/Fail grading. [1-3*-2] In Person Learning Fri 10:00 a.m. - 1:00 p.m.

MTRL 451-L1A 451 L1A Microstructural Analysis Laboratory W1 Basic principles and techniques of microstructural analysis with particular reference to engineered materials including x-ray, SEM microprobe TEM and high energy electron analysis. This course is not eligible for Credit/D/Fail grading. [1-3*-2] In Person Learning Mon 2:00 p.m. - 5:00 p.m.

MTRL 451-L1C 358 L1C Modelling of Materials Processes W1 Mathematical and physical modelling of processes employed in the production of materials. The application of models to analyze, design and improve materials production. This course is not eligible for Credit/D/Fail grading. [10-2] In Person Learning Mon 9:00 a.m. - 1:00 p.m., Wed 11:00 a.m. - 1:00 p.m.

MTRL 461-101 361 101 Transport Phenomena III - Mass Transport W1 Transport Phenomena I should be completed prior to this course. Mass transfer fundamentals, gas interdiffusivity, Sievert's law, Fick's laws, solid-state diffusion, steady- and non-steady state diffusion, mass transfer in quiescent fluids. The application examples are related to metallurgical processes, green technologies, and the semiconductor industry. This course is not eligible for Credit/D/Fail grading. [2-0-2] Corequisite: MTRL 363, MTRL 424. In Person Learning Tue Thu 11:00 a.m. - 2:00 p.m.


MTRL 470-202 378 202 Modelling of Materials Processes W2 Structure and properties of ferrous and non-ferrous metals; heat treatment; hardenability; metallography; age hardening. This course is not eligible for Credit/D/Fail grading. [0-3*-0] Corequisite: MTRL 365, MTRL 378. In Person Learning Thu (Alternate weeks) 10:00 a.m. - 1:00 p.m.

MTRL 470-203 378 203 Structure and Properties Laboratory W2 Structure and properties of ferrous and non-ferrous metals; heat treatment; hardenability; metallography; age hardening. This course is not eligible for Credit/D/Fail grading. [0-3*-0] Corequisite: MTRL 365, MTRL 378. In Person Learning Thu (Alternate weeks) 9:00 a.m. - 12:00 p.m.

MTRL 470-204 378 204 Structure and Properties Laboratory W2 Structure and properties of ferrous and non-ferrous metals; heat treatment; hardenability; metallography; age hardening. This course is not eligible for Credit/D/Fail grading. [0-3*-0] Corequisite: MTRL 365, MTRL 378. In Person Learning Thu (Alternate weeks) 9:00 a.m. - 12:00 p.m.

MTRL 470-301 382 301 Ceramics W2 Fundamentals of engineering ceramics focusing on raw materials, forming, orienting properties, characterization, and design with ceramics. This course is not eligible for Credit/D/Fail grading. [1-3*-0] Corequisite: MTRL 365, MTRL 378. In Person Learning Arranged Arranged

MTRL 470-302 382 302 Ceramic Analysis Laboratory W2 Characteristics of engineering ceramics focusing on raw materials, forming, orienting properties, characterization, and design with ceramics. This course is not eligible for Credit/D/Fail grading. [1-3*-0] Corequisite: MTRL 365, MTRL 378. In Person Learning Arranged Arranged

MTRL 500-201 394 201 Polymers W2 The structure and properties of polymeric materials and reinforced polymers with emphasis on their engineering properties and applications. This course is not eligible for Credit/D/Fail grading. [2-0-3] In Person Learning Wed 10:00 a.m. - 11:00 a.m.

MTRL 500-202 394 202 Polymers W2 The structure and properties of polymeric materials and reinforced polymers with emphasis on their engineering properties and applications. This course is not eligible for Credit/D/Fail grading. [2-0-3] In Person Learning Fri 10:00 a.m. - 11:00 a.m.

MTRL 524-201 424 201 Aerospace Materials and Manufacturing W2 Advanced materials and manufacturing in the framework of aerospace requirements and regulations, with a focus on processing of materials, including aerospace metals and polymer composites, to produce aerospace structures and engine components. This course is not eligible for Credit/D/Fail grading. [3-0-0] In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.
### Engineering Project I

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Schedule</th>
<th>Location</th>
<th>Grading</th>
</tr>
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<tbody>
<tr>
<td>W1</td>
<td>Monitoring and Optimization of Materials Processing</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Wed Fri</td>
</tr>
<tr>
<td>W1</td>
<td>Environmental Degradation of Materials</td>
<td>5:00 p.m. - 7:00 p.m.</td>
<td>In Person Learning</td>
<td>Wed Fri</td>
</tr>
</tbody>
</table>

### In Person Learning

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Schedule</th>
<th>Location</th>
<th>Grading</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1</td>
<td>Economic Aspects of Materials Engineering</td>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>W1</td>
<td></td>
</tr>
<tr>
<td>W1</td>
<td>Casting Technology</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>W1</td>
<td></td>
</tr>
<tr>
<td>W1</td>
<td>Environmental Degradation of Materials</td>
<td>5:00 p.m. - 7:00 p.m.</td>
<td>W1</td>
<td></td>
</tr>
<tr>
<td>W1</td>
<td>Environmental Degradation of Materials</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>W1</td>
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</tr>
<tr>
<td>W1</td>
<td>Economic Aspects of Materials Engineering</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>W1</td>
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</tr>
<tr>
<td>W2</td>
<td>Environmental Degradation of Materials</td>
<td>1:00 p.m. - 3:00 p.m.</td>
<td>W2</td>
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<tr>
<td>W2</td>
<td>Environmental Degradation of Materials</td>
<td>5:00 p.m. - 7:00 p.m.</td>
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<tr>
<td>W2</td>
<td>Environmental Degradation of Materials</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>W2</td>
<td>Environmental Degradation of Materials</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>W2</td>
<td></td>
</tr>
</tbody>
</table>

### Course Descriptions

- **Economic Aspects of Materials Engineering**
  - Time value of money, cash flows, capital and operating cost estimations, financial decision making and relevant case studies. This course is not eligible for Credit/D/Fail grading. [2-0-2]
  - In Person Learning Wed Fri
  - 1:00 p.m. - 2:00 p.m.

- **Environmental Degradation of Materials**
  - Fundamental aspects of environmental degradation of metals (corrosion), ceramics, ad polymers, with 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. - 12:30 p.m.

- **Leaching, Precipitation, Precipitation, Thermodynamics and Kinetics of Separation Steps**
  - In Person Learning Tue Thu
  - 1:00 p.m. - 2:30 p.m.

- **Materials Processing Monitoring and Control**
  - Measurement systems for materials processing and evaluation, methods of data collection and analysis in materials engineering, materials processing monitoring and control, design of experiments for materials processing and optimization. This course is not eligible for Credit/D/Fail grading. [2-0-2]
  - In Person Learning
  - Tue
  - 11:00 a.m. - 1:00 p.m.

- **Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]**
  - In Person Learning Thu
  - 1:00 p.m. - 3:00 p.m.

- **Engineering Design in Materials Science and Engineering**
  - Design projects to illustrate the full spectrum of design encountered in Metals and Materials Engineering including the design of components, structures and processes used to manufacture materials. This course is not eligible for Credit/D/Fail grading. [1-0-5]
  - In Person Learning
  - Wed
  - 8:00 a.m. - 10:00 a.m.

- **Fundamental Aspects of Environmental Degradation of Materials**
  - Time value of money, cash flows, capital and operating cost estimations, financial decision making and relevant case studies. This course is not eligible for Credit/D/Fail grading. [2-0-2]
  - In Person Learning
  - Thu
  - 4:30 p.m. - 7:30 p.m.

- **Fundamental Aspects of Environmental Degradation of Materials**
  - Time value of money, cash flows, capital and operating cost estimations, financial decision making and relevant case studies. This course is not eligible for Credit/D/Fail grading. [2-0-2]
  - In Person Learning
  - Thu
  - 4:30 p.m. - 7:30 p.m.

- **Environmental Degradation of Materials**
  - Time value of money, cash flows, capital and operating cost estimations, financial decision making and relevant case studies. This course is not eligible for Credit/D/Fail grading. [2-0-2]
  - In Person Learning
  - Thu
  - 4:30 p.m. - 7:30 p.m.

- **Leaching, Precipitation, Precipitation, Thermodynamics and Kinetics of Separation Steps**
  - In Person Learning
  - Thu
  - 4:30 p.m. - 7:30 p.m.

### Additional Information

- Various casting technologies related to the automotive and aerospace sectors will be covered, including vacuum, permanent mold, and low-pressure casting processes. [2-0-0]
  - In Person Learning
  - Wed
  - 4:30 p.m. - 7:30 p.m.
Various casting technologies related to the automotive and aerospace sector will be covered, including semisolid metal processing. [2-0-2] in Person Learning

Welding and joining of Materials

W1 Case studies addressing temperature modelling in welding and joining, material selection for welds and joints, calculation of properties for welds and joints, mechanical analysis of joints, and design of welding and joining procedures. This course is not eligible for Credit/D/Fail grading. [2-0-2] in Person Learning

Welding and Joining of Materials

W1 Case studies addressing temperature modelling in welding and joining, material selection for welds and joints, calculation of properties for welds and joints, mechanical analysis of joints, and design of welding and joining procedures. This course is not eligible for Credit/D/Fail grading. [2-0-2] in Person Learning

Microstructure Engineering

W2 Follows the production of metallurgical products, focusing on process design models which describe solidification, recrystallization, and precipitation. This course is not eligible for Credit/D/Fail grading. [2-0-2] in Person Learning

Microstructure Engineering

W2 Follows the production of metallurgical products, focusing on process design models which describe solidification, recrystallization, and precipitation. This course is not eligible for Credit/D/Fail grading. [2-0-2] in Person Learning

Electronic Materials

W2 Semiconductor material, ADISET structure, operation and applications of rigid circuit, fabrication techniques, basic mask and fabrication flow design and semiconductor fabrication process theories at an entry level. [3-0-0] in Person Learning

Materials for Aeronautics and Engines


Failure of Materials

W1 Failure by excess deformation, fracture, fatigue, and environmental effects. Failure theories and case studies of engineering failures. This course is not eligible for Credit/D/Fail grading. [2-0-2] in Person Learning

Nondestructive Evaluation

W1 Principles of test methods, inspection techniques and equipment; quantitative flow evaluation; reliability analysis. This course is not eligible for Credit/D/Fail grading. [2-0-2] in Person Learning

Nondestructive Evaluation

W1 Principles of test methods, inspection techniques and equipment; quantitative flow evaluation; reliability analysis. This course is not eligible for Credit/D/Fail grading. [2-0-2] in Person Learning

Composite Materials

W1 Understanding the properties and the mechanical behaviour of composite materials with emphasis on composites, design, and manufacturing. This course is not eligible for Credit/D/Fail grading. [3-0-4] in Person Learning

Biomaterials

W2 Engineering materials in medical applications with an emphasis on material properties, functionality, design, and material response in the biological environment. This course is not eligible for Credit/D/Fail grading. [2-0-2] in Person Learning

Biomaterials

W2 Engineering materials in medical applications with an emphasis on material properties, functionality, design, and material response in the biological environment. This course is not eligible for Credit/D/Fail grading. [2-0-2] in Person Learning

Materials Sustainability

W2 Concepts of life cycle analysis, circular economy and critical materials. Project-based introduction to key concepts, calculations, and design. This course is not eligible for Credit/D/Fail grading. [2-0-2] in Person Learning

Materials Sustainability

W2 Concepts of life cycle analysis, circular economy and critical materials. Project-based introduction to key concepts, calculations, and design. This course is not eligible for Credit/D/Fail grading. [2-0-2] in Person Learning

Special Topics in Materials Engineering

W1 This course is not eligible for Credit/D/Fail grading. [2-0-2] in Person Learning

Abnormal 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] in Person Learning

Advanced Hydro metallurgy

W2 Batch leaching kinetics, leaching mechanisms; statistical methods for design of multi-stage continuous leaching reactors, coupled heat and mass balances, mixing phenomena, oxide and precipitation reactions; complex mineralogical feeds; heap and dump leaching. This course is not eligible for Credit/D/Fail grading. [2-0-2] in Person Learning

Hydrometallurgical Reactor Design and Analysis

W2 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] in Person Learning

Deformation of Crystaline Materials

W1 Physical mechanisms of microstructure evolution; structure, energy and modellability of grain boundaries, grain boundary segregation, precipitation, recovery, recrystallisation, grain growth; microstructure engineering of steels. This course is not eligible for Credit/D/Fail grading. [2-0-2] in Person Learning

Microstructural Evolution of Deformed Materials

W2 Physical mechanisms of microstructure evolution; structure, energy and modellability of grain boundaries, grain boundary segregation, precipitation, recovery, recrystallisation, grain growth; microstructure engineering of steels. This course is not eligible for Credit/D/Fail grading. [2-0-2] in Person Learning
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Value</th>
<th>Grading</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTRL_V 570-201</td>
<td>Physics of Microfabrication: Front-End Processing</td>
<td>2</td>
<td>In Person Learning</td>
<td>Fri 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>MTRL_V 595-201</td>
<td>Directed Studies in Materials Engineering</td>
<td>1</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MTRL_V 599-201</td>
<td>Advanced Topics in Materials Engineering</td>
<td>1</td>
<td>In Person Learning</td>
<td>Tue Thu 1:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>MTRL_V 593-202</td>
<td>Advanced Topics in Materials Engineering</td>
<td>1</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MTRL_V 596-201</td>
<td>Advanced Topics in Materials Engineering</td>
<td>1</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MTRL_V 592-201</td>
<td>Advanced Topics in Materials Engineering</td>
<td>1</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MTRL_V 594-201</td>
<td>Advanced Composite Materials</td>
<td>2</td>
<td>In Person Learning</td>
<td>Tue Thu 8:00 a.m. - 9:00 a.m.</td>
</tr>
<tr>
<td>MTRL_V 596-T2A</td>
<td>Directed Studies in Materials Engineering</td>
<td>2</td>
<td>In Person Learning</td>
<td>Wed 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>MTRL_V 595-201</td>
<td>Advanced Biomaterials</td>
<td>2</td>
<td>In Person Learning</td>
<td>Wed 1:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>MTRL_V 595-T2A</td>
<td>Advanced Biomaterials</td>
<td>2</td>
<td>In Person Learning</td>
<td>Mon 2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>MTRL_V 596-001</td>
<td>M.Sc. Thesis</td>
<td>1</td>
<td>For M.Sc. Degree. Research studies in materials engineering. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1-2</td>
</tr>
<tr>
<td>MTRL_V 596-101</td>
<td>M.Sc. Thesis</td>
<td>1</td>
<td>For M.Sc. Degree. Research studies in materials engineering. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1-2</td>
</tr>
<tr>
<td>MTRL_V 596-201</td>
<td>M.Sc. Thesis</td>
<td>1</td>
<td>For M.Sc. Degree. Research studies in materials engineering. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1-2</td>
</tr>
<tr>
<td>MTRL_V 598-101</td>
<td>Seminar</td>
<td>1</td>
<td>Presentation and discussion of current topics in metals and materials research. A required course for graduate students in metals and materials which carries a academic credit.</td>
<td>W1</td>
</tr>
<tr>
<td>MTRL_V 598-201</td>
<td>Seminar</td>
<td>1</td>
<td>Presentation and discussion of current topics in metals and materials research. A required course for graduate students in metals and materials which carries a academic credit.</td>
<td>W2</td>
</tr>
<tr>
<td>MTRL_V 599-001</td>
<td>M.A.Sc. Thesis</td>
<td>1</td>
<td>For M.A.Sc. Degree. Research studies in materials engineering. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1-2</td>
</tr>
<tr>
<td>MTRL_V 599-101</td>
<td>M.A.Sc. Thesis</td>
<td>1</td>
<td>For M.A.Sc. Degree. Research studies in materials engineering. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1-2</td>
</tr>
<tr>
<td>MTRL_V 599-201</td>
<td>M.A.Sc. Thesis</td>
<td>1</td>
<td>For M.A.Sc. Degree. Research studies in materials engineering. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1-2</td>
</tr>
<tr>
<td>MTRL_V 699-001</td>
<td>Doctoral Dissertation</td>
<td>1</td>
<td>For M.A.Sc. Degree. Research studies in materials engineering. Honours/Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>W1-2</td>
</tr>
</tbody>
</table>

- **MTRL_V 570-201**
  - **Course Title**: Physics of Microfabrication: Front-End Processing
  - **Credit Value**: 2
  - **Grading**: In Person Learning
  - **Description**: Practical aspects, physical models, and simulations of Si based microfabrication processes such as oxidation, diffusion, ion implantation, chemical vapor deposition, etching, stress techniques. Semiconductor device physics will also be discussed. This course is not eligible for Credit/D/Fail grading.

- **MTRL_V 593-202**
  - **Course Title**: Advanced Topics in Materials Engineering
  - **Credit Value**: 1
  - **Grading**: In Person Learning
  - **Description**: This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.

- **MTRL_V 596-201**
  - **Course Title**: Advanced Topics in Materials Engineering
  - **Credit Value**: 1
  - **Grading**: In Person Learning
  - **Description**: This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.

- **MTRL_V 592-201**
  - **Course Title**: Advanced Topics in Materials Engineering
  - **Credit Value**: 1
  - **Grading**: In Person Learning
  - **Description**: This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.

- **MTRL_V 594-201**
  - **Course Title**: Advanced Composite Materials
  - **Credit Value**: 2
  - **Grading**: In Person Learning
  - **Description**: Processing and properties of advanced polymer based composite materials with emphasis on analysis, design, and manufacturing. This course is not eligible for Credit/D/Fail grading. [2-0-0]
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC_V</td>
<td>Principles of Musical Form</td>
<td>W1</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MUSC_V</td>
<td>Principles of Musical Form</td>
<td>W1</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MUSC_V</td>
<td>Introduction to the Theory of Music</td>
<td>F1</td>
<td>8:30 a.m. - 9:30 a.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MUSC_V</td>
<td>String Chamber Ensembles (Upper Years)</td>
<td>W2</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>MUSC_V</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
</tbody>
</table>

**Diatonic Harmony and Voice Leading**

- **Course Description**: Concepts of rhythm, pitch, timbre, and texture. Notation and aural recognition of rhythmic and pitch patterns. Basic principles of melody and form. This course is not applicable to B.Mus. students. 3 credits. Credit/D/Fail grading. Prerequisite: One of MUSC 100, MUSC 110.
- **Course Content**: Harmonic and linear functions of diatonic chords; common progressions and sequences; introduction to tonal hierarchy and prolongation; simple modulation. Compositional and analytical exercises.
- **Prerequisites**: One of MUSC 100, MUSC 150.
<table>
<thead>
<tr>
<th>Code</th>
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<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSC_V 105-121</td>
<td>Aural Skills I</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 105-120</td>
<td>Aural Skills I</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 106-210</td>
<td>Aural Skills II</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 106-220</td>
<td>Aural Skills II</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 106-230</td>
<td>Aural Skills II</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 107-C-001</td>
<td>Composition I</td>
<td>W1-2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 107-C-002</td>
<td>Composition I</td>
<td>W1-2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 108-001</td>
<td>Introduction to Contemporary Art Music</td>
<td>W1-2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 112-001</td>
<td>Class Brass and Percussion</td>
<td>W1-2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 119-001</td>
<td>Introduction to Music Technology</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 119-002</td>
<td>Introduction to Music Technology</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 119-003</td>
<td>Introduction to Music Technology</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 119-004</td>
<td>Introduction to Music Technology</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 119-005</td>
<td>Introduction to Music Technology</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 120-001</td>
<td>History of Music I</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 120-002</td>
<td>History of Music II</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 122-001</td>
<td>Class Woodwinds</td>
<td>W1-2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 128-001</td>
<td>Music and Human Experience</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
</tr>
<tr>
<td>MUSC_V 128-002</td>
<td>Music and Human Experience</td>
<td>W1</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Fri.</td>
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<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Description</td>
<td>Meet Type</td>
<td>Credit</td>
<td>Credit/D/Fail</td>
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<tr>
<td>MUSC_V 128-002</td>
<td>Music and Human Experience</td>
<td>A multi-disciplinary survey of music in selected world traditions and genres, connecting it to ideas of time, evolution, history, anthropology, philosophy, and contemporary globalized culture.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td></td>
</tr>
<tr>
<td>MUSC_V 128-003</td>
<td>Music and Human Experience</td>
<td>A multi-disciplinary survey of music in selected world traditions and genres, connecting it to ideas of time, evolution, history, anthropology, philosophy, and contemporary globalized culture.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td></td>
</tr>
<tr>
<td>MUSC_V 130-001</td>
<td>Large Instrumental Ensemble (Lower Years)</td>
<td>Group instruction in music performance. Required of all first-time secondary voice students. Restricted to B.Mus. students.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>MUSC_V 135-001</td>
<td>Opera Repertoire I</td>
<td>A multi-disciplinary study and analysis of representative works in the international operatic theatre from 1600 to the present, through musical, literary and graphic sources. Each sequential year of study, the student is expected to show increased facility in musical and dramatic analysis as well as a greater understanding of the works under examination. Open to students outside the B.Mus. program by permission of the instructor.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td></td>
</tr>
<tr>
<td>MUSC_V 135-002</td>
<td>Opera Repertoire I</td>
<td>A multi-disciplinary study and analysis of representative works in the international operatic theatre from 1600 to the present, through musical, literary and graphic sources. Each sequential year of study, the student is expected to show increased facility in musical and dramatic analysis as well as a greater understanding of the works under examination. Open to students outside the B.Mus. program by permission of the instructor.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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</tr>
<tr>
<td>MUSC_V 141-001</td>
<td>Class Piano I</td>
<td>Required of all first-time secondary piano students.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td></td>
</tr>
<tr>
<td>MUSC_V 141-002</td>
<td>Class Piano I</td>
<td>Required of all first-time secondary piano students.</td>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td></td>
</tr>
<tr>
<td>MUSC_V 149-001</td>
<td>Collaboration Piano I</td>
<td>Skills and performance practice with primary emphasis on voice/piano partnership principles and repertories. Series of large-choral works; open to other students by permission.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td></td>
</tr>
<tr>
<td>MUSC_V 150-A-001</td>
<td>Large Instrumental Ensemble (Lower Years)</td>
<td>Symphony Orchestra, Symphonic Wind Ensemble, or Concert Winds. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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</tr>
<tr>
<td>MUSC_V 150-A-001</td>
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<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>MUSC_V 150-A-001</td>
<td>University Singers (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>
<td>In Person Learning</td>
<td>Thu</td>
<td></td>
</tr>
<tr>
<td>MUSC_V 154-A-001</td>
<td>University Choral Union (Lower Years)</td>
<td>A multi-disciplinary survey of music in selected world traditions and genres, connecting it to ideas of time, evolution, history, anthropology, philosophy, and contemporary globalized culture.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
<td></td>
</tr>
<tr>
<td>MUSC_V 156-A-001</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>
<td>In Person Learning</td>
<td>Thu</td>
<td></td>
</tr>
<tr>
<td>MUSC_V 156-B-001</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>
<td>In Person Learning</td>
<td>Thu</td>
<td></td>
</tr>
<tr>
<td>MUSC_V 156-C-001</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>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td></td>
</tr>
<tr>
<td>MUSC_V 156-C-002</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>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td></td>
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<tr>
<td>MUSC_V 157-A-001</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>
<td>In Person Learning</td>
<td>Mon</td>
<td></td>
</tr>
<tr>
<td>MUSC_V 160-A-001</td>
<td>String 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>
<td>In Person Learning</td>
<td>Mon Wed Fri</td>
<td></td>
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</tbody>
</table>
May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue  3:00 p.m. - 5:00 p.m.

May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Tue  1:00 p.m. - 3:00 p.m.

May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. This course is not eligible for Credit/D/Fail grading.

In Person Learning  Fri  3:30 p.m. - 5:30 p.m.

May be taken twice for credit. This course is not eligible for Credit/D/Fail grading.

Intensive coaching in chamber ensemble for advanced players. Performance of works prepared is expected. May be taken twice for credit. Corequisite: Any small ensemble (MUSC 156-166) and permission of the instructor.

Intensive Chamber Ensemble (Lower Years)  Wed  2:00 p.m. - 3:00 p.m.

Different sections focus on the music of different cultures, e.g., Bali, China, Ghana, Korea. May be taken twice for credit. This course is not eligible for Credit/D/Fail grading.

World Music Ensembles (Lower Years)  Wed  3:00 p.m. - 5:00 p.m.

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.

Wind and Percussion Chamber Ensembles (Lower Years)  Wed  2:00 p.m. - 3:00 p.m.

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.

Wind and Percussion Chamber Ensembles (Lower Years)  Wed  3:00 p.m. - 5:00 p.m.

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.

Wind and Percussion Chamber Ensembles (Lower Years)  Wed  1:00 p.m. - 3:00 p.m.

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.

Intensive Chamber Ensemble (Lower Years)  Wed  1:00 p.m. - 3:00 p.m.

Performance of contemporary music. An ensemble of variable size, including both instrumentalists and singers, will be formed to present several concerts of 20th-century music during the academic year. May be taken twice for credit. This course is not eligible for Credit/D/Fail grading.

Contemporary Players (Lower Years)  Wed  2:00 p.m. - 3:00 p.m.

Training on traditional instruments and their techniques, with emphasis on ensemble performance. Different sections focus on the music of different cultures, e.g., Bali, China, Ghana, Korea. May be taken twice for credit. This course is not eligible for Credit/D/Fail grading.

World Music Ensembles (Lower Years)  Wed  3:00 p.m. - 5:00 p.m.

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.

Intensive Chamber Ensemble (Lower Years)  Wed  1:00 p.m. - 3:00 p.m.

A survey of repertoire and performance issues. 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.

Introduction to Piano Chamber Music  Wed  2:00 p.m. - 3:00 p.m.
MUSC_V 100-E_002  MUSC_V 169  E  E_002  Intensive Chamber Ensemble (Lower Years)  W2
Intensive coaching in chamber ensemble for advanced players. Performance of works prepared is expected. May be taken twice for credit. Compulsory. No small ensemble (MUSC 154-164) and permission of the instructor. In Person Learning Arranged Arranged

MUSC_V 170-001  MUSC_V 170  001  Lyric Diction  W1-2
A study of the basic phonetics and accepted principles of lyric diction of the four languages most commonly used in concert and operatic repertoire: French, German, Italian, and English. In Person Learning Tue Thu 11:00 a.m. - 12:00 p.m.

MUSC_V 171-A_001  MUSC_V 171  A  A_001  Music Performance (Secondary)  W1-2
Private instruction, vocal or instrumental. In Person Learning Arranged Arranged

MUSC_V 200-001  MUSC_V 200  001  Chromatic Harmony and Voice Leading  W2
Harmonic and linear functions of common chromatic chords; mixture; chords and progressions of linear origin; tonal plans; Compositional and analytical exercises. Prerequisite (MUSC101) In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

MUSC_V 200-001  MUSC_V 200  D01  Chromatic Harmony and Voice Leading  W2
Harmonic and linear functions of common chromatic chords; mixture; chords and progressions of linear origin; tonal plans; Compositional and analytical exercises. Prerequisite (MUSC101) In Person Learning Fri 11:00 a.m. - 12:30 p.m.

MUSC_V 200-002  MUSC_V 200  D02  Chromatic Harmony and Voice Leading  W2
Harmonic and linear functions of common chromatic chords; mixture; chords and progressions of linear origin; tonal plans; Compositional and analytical exercises. Prerequisite (MUSC101) In Person Learning Fri 1:00 p.m. - 2:00 p.m.

MUSC_V 200-003  MUSC_V 200  D03  Chromatic Harmony and Voice Leading  W2
Harmonic and linear functions of common chromatic chords; mixture; chords and progressions of linear origin; tonal plans; Compositional and analytical exercises. Prerequisite (MUSC101) In Person Learning Fri 2:00 p.m. - 3:00 p.m.

MUSC_V 205-110  MUSC_V 205  110  Aural Skills III  W1
Continuation of MUSC 206. Restricted to B.Mus. students. Prerequisite: (One of (a) a score of 68% or higher in MUSC 256, or (b) pass the MUSC 256 Challenge Test). Students may register for MUSC 206 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class. In Person Learning Mon Wed 9:00 a.m. - 10:00 a.m.

MUSC_V 205-120  MUSC_V 205  120  Aural Skills III  W1
Continuation of MUSC 206. Restricted to B.Mus. students. Prerequisite: (One of (a) a score of 68% or higher in MUSC 256, or (b) pass the MUSC 256 Challenge Test). Students may register for MUSC 206 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class. In Person Learning Mon Wed 10:00 a.m. - 11:00 a.m.

MUSC_V 205-130  MUSC_V 205  130  Aural Skills III  W1
Continuation of MUSC 206. Restricted to B.Mus. students. Prerequisite: (One of (a) a score of 68% or higher in MUSC 256, or (b) pass the MUSC 256 Challenge Test). Students may register for MUSC 206 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class. In Person Learning Mon Wed 11:00 a.m. - 12:00 p.m.

MUSC_V 206-210  MUSC_V 206  210  Aural Skills IV  W2
Continuation of MUSC 206. Restricted to B.Mus. students. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of (a) a score of 68% or higher in MUSC 256, or (b) pass the MUSC 256 Challenge Test. Students may register for MUSC 206 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class. In Person Learning Mon Wed 9:00 a.m. - 10:00 a.m.

MUSC_V 206-220  MUSC_V 206  220  Aural Skills IV  W2
Continuation of MUSC 206. Restricted to B.Mus. students. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of (a) a score of 68% or higher in MUSC 256, or (b) pass the MUSC 256 Challenge Test. Students may register for MUSC 206 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class. In Person Learning Mon Wed 10:00 a.m. - 11:00 a.m.

MUSC_V 206-230  MUSC_V 206  230  Aural Skills IV  W2
Continuation of MUSC 206. Restricted to B.Mus. students. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of (a) a score of 68% or higher in MUSC 256, or (b) pass the MUSC 256 Challenge Test. Students may register for MUSC 206 prior to meeting the pre-requisite but will be required to withdraw if the pre-requisite is not met by the first day of class. In Person Learning Mon Wed 11:00 a.m. - 12:00 p.m.

MUSC_V 207_C_001  MUSC_V 207  C  C_001  Composition II  W1-2
Composition II. Permission of Composition Division based on submission of scores. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Mon 12:00 p.m. - 1:00 p.m.

MUSC_V 207_C_002  MUSC_V 207  C  C_002  Composition II  W1-2
Composition II. Permission of Composition Division based on submission of scores. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Mon 12:00 p.m. - 1:00 p.m.

MUSC_V 220-001  MUSC_V 220  001  History of Music III  W1
The Development of Western music from circa 1800 to circa 1900. Prerequisite: All of MUSC 121, MUSC 156. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

MUSC_V 221-001  MUSC_V 221  001  History of Music IV  W1
The Development of Western music from circa 1900; an introduction to jazz and popular music and to music of selected non-Western societies. Prerequisite: All of MUSC 220, MUSC 221. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

MUSC_V 225-001  MUSC_V 225  001  Opera Repertoire II  W1-2
Operatic repertoire. See MUSC 135. In Person Learning Mon Wed 11:00 a.m. - 12:00 p.m.

MUSC_V 236_C_001  MUSC_V 236  C  C_001  Piano Repertoire II  W1-2
Continuation of MUSC 126. In Person Learning Thu 3:00 p.m. - 5:00 p.m.

MUSC_V 241-001  MUSC_V 241  001  Class Piano II  W1-2
Continuation of MUSC 141. In Person Learning Mon Wed Fri 2:00 p.m. - 3:00 p.m.

MUSC_V 241-002  MUSC_V 241  002  Class Piano II  W1-2
Continuation of MUSC 141. In Person Learning Mon Wed Fri 3:00 p.m. - 4:00 p.m.

MUSC_V 249-001  MUSC_V 249  001  Collaboration Piano II  W1-2
Further development of skills and performance practice with primary emphasis on voice/piano partnership principles and repertoire. Strong sight-reading skills essential. For Piano majors; open to others by audition. Prerequisite [MUSC149] In Person Learning Wed 2:00 p.m. - 3:00 p.m.
MUSC V 271 A 001 MUSIC V 271 A A 001 Music Performance (Secondary) WI-2

Private instruction, social or instrumental. Prerequisite: One of MUSC 171, MUSC 172, MUSC 181, MUSC 182, MUSC 183, MUSC 191, MUSC 192, MUSC 193.

Concepts essential to understanding and performing art music, since 1900, in which functional triadic harmony is absent or subsidiary to other musical processes. Detailed consideration of works of major composers up to the present, through analysis, composition, and musicianship exercises. Prerequisite: MUSC 100.

MUSC V 300 D01 MUSIC V 300 D01 Compositional and Analytical Approaches to Post-Tonal Music WI

Concepts essential to understanding and performing art music, since 1900, in which functional triadic harmony is absent or subsidiary to other musical processes. Detailed consideration of works of major composers up to the present, through analysis, composition, and musicianship exercises. Prerequisite: MUSC 100.

MUSC V 300 D02 MUSIC V 300 D02 Compositional and Analytical Approaches to Post-Tonal Music WI

Concepts essential to understanding and performing art music, since 1900, in which functional triadic harmony is absent or subsidiary to other musical processes. Detailed consideration of works of major composers up to the present, through analysis, composition, and musicianship exercises. Prerequisite: MUSC 100.

MUSC V 307 C 001 MUSIC V 307 C C 001 Composition III WI-2

Creation of MUSC 307T. Prerequisite: MUSC207T and permission of Composition Division based on submission of scores. The credit value for this course will be determined in consultation with the student prior to the registration.

MUSC V 311 D01 MUSIC V 311 D01 Fundamentals of Conducting WI

The study of string, woodwind, brass and percussion instruments; orchestral sections and scoring for various small ensembles. Activities include demonstrations of instruments, scoring projects, analysis and listening. For credit towards the B.A. in Music, not open to other students. Prerequisite: MUSC 200 and completion of the second-year piano requirements.

MUSC V 311 D02 MUSIC V 311 D02 Fundamentals of Conducting WI

The relation of conducting gestures to choral sound; development of practical skills in directing ensembles and reading scores, considering instruments' special characteristics. Prerequisite: MUSC 200. and completion of the second-year piano requirement.

MUSC V 312 D01 MUSIC V 312 D01 Instrumental Conducting WI

The relation of conducting gestures to choral sound; development of practical skills in directing ensembles and reading scores, considering instruments' special characteristics. Prerequisite: MUSC 200. and completion of the second-year piano requirement.

MUSC V 315 D01 MUSIC V 315 D01 Choral Conducting WI

Study of acoustics, audio technology, and electroacoustic composition. Composition of original works using the UMK Electroacoustic Music Studio or students' own software/hardware. Prerequisite: MUSC 119 and one of MUSC 100, MUSC 103. Permission of instructor is also required.

MUSC V 319 A 001 MUSIC V 319 A A 001 Electroacoustic Music WI-1

Study of acoustics, audio technology, and electroacoustic composition. Composition of original works using the UMK Electroacoustic Music Studio or students' own software/hardware. Prerequisite: MUSC 119 and one of MUSC 100, MUSC 103. Permission of instructor is also required.

MUSC V 320 D01 MUSIC V 320 D01 Computer Music WI-2

The study of computer applications to music, focusing on digital synthesis techniques and languages, methods of algorithmic composition, and the design of music editors. Prerequisite: [MUSC175] or permission of instructor.

MUSC V 322 D01 MUSIC V 322 D01 History of Popular Music WI

An introductory course for which previous musical backgrounds is helpful, but not required. Contents include a discussion of musical concepts, evolutions of forms, style, and media and detailed study of selected works from the concert repertoire. Popular forms of music (jazz, folk, rock, etc) not included. Not for credit towards the B.A. in Music. Prerequisite: MUSC 100.

MUSC V 326 A 001 MUSIC V 326 A A 001 Music Appreciation WI-2

An introductory course for which previous musical backgrounds is helpful, but not required. Contents include a discussion of musical concepts, evolutions of forms, style, and media and detailed study of selected works from the concert repertoire. Popular forms of music (jazz, folk, rock, etc) not included. Not for credit towards the B.A. in Music. Prerequisite: MUSC 100.

MUSC V 333 D01 MUSIC V 333 D01 Accompanying on the Harpsichord WI-2

Basic techniques and styles of continuo playing. Open to keyboard players with no previous harpsichord experience. Prerequisite: None

In Person Learning Aranged

Aranged

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

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

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

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

10:00 a.m. - 11:30 a.m.

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

10:30 a.m. - 12:00 p.m.

10:30 a.m. - 12:00 p.m.

10:00 a.m. - 11:30 a.m.
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<tr>
<th>Course Code</th>
<th>Lecture Code</th>
<th>Title</th>
<th>Type</th>
<th>Credits</th>
<th>Time</th>
<th>Days</th>
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<tr>
<td>MUSC_V 336-001</td>
<td>MUSC_V 336</td>
<td>Opera Theatre Techniques I</td>
<td>In Person Learning</td>
<td>3</td>
<td>Mon-Wed</td>
<td>1:00 p.m.-3:00 p.m.</td>
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<tr>
<td>MUSC_V 330-001</td>
<td>MUSC_V 330_C</td>
<td>Opera Workshop I</td>
<td>In Person Learning</td>
<td>3</td>
<td>Mon-Wed</td>
<td>4:00 p.m.-7:00 p.m.</td>
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<tr>
<td>MUSC_V 340-001</td>
<td>MUSC_V 340</td>
<td>Piano Pedagogy I Theory and Studio Management</td>
<td>In Person Learning</td>
<td>3</td>
<td>Thu</td>
<td>1:00 p.m.-2:30 p.m.</td>
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<td>MUSC_V 340-001</td>
<td>MUSC_V 340_C</td>
<td>Keyboard Harmony and Transposition</td>
<td>In Person Learning</td>
<td>3</td>
<td>Tue</td>
<td>1:00 p.m.-2:00 p.m.</td>
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<td>MUSC_V 354-001</td>
<td>MUSC_V 354</td>
<td>Baroque Music</td>
<td>W2</td>
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<td>MUSC_V 360-A-001</td>
<td>MUSC_V 360_A</td>
<td>String Chamber Ensembles (Upper Years)</td>
<td>W1</td>
<td>3</td>
<td>Tue</td>
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<tr>
<td>MUSC_V 361-A-001</td>
<td>MUSC_V 361_A</td>
<td>Piano Chamber Ensembles (Upper Years)</td>
<td>W1</td>
<td>3</td>
<td>Wed</td>
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<tr>
<td>MUSC_V 362-A-001</td>
<td>MUSC_V 362_A</td>
<td>Wind and Percussion Chamber Ensembles (Upper Years)</td>
<td>W1</td>
<td>3</td>
<td>Fri</td>
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<tr>
<td>MUSC_V 362-B-001</td>
<td>MUSC_V 362_B</td>
<td>Wind and Percussion Chamber Ensembles (Upper Years)</td>
<td>W1</td>
<td>3</td>
<td>Tue</td>
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<td>MUSC_V 362-C-001</td>
<td>MUSC_V 362_C</td>
<td>Wind and Percussion Chamber Ensembles (Upper Years)</td>
<td>W1</td>
<td>3</td>
<td>Fri</td>
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<td>MUSC_V 362-E-001</td>
<td>MUSC_V 362_E</td>
<td>Wind and Percussion Chamber Ensembles (Upper Years)</td>
<td>W1</td>
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<tr>
<td>MUSC_V 363-001</td>
<td>MUSC_V 363</td>
<td>History and Repertoire of the Guitar and Related Instruments</td>
<td>W1</td>
<td>3</td>
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<td>MUSC_V 365-001</td>
<td>MUSC_V 365</td>
<td>Song Repertoire I</td>
<td>W1</td>
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<td>MUSC_V 366-A-001</td>
<td>MUSC_V 366_A</td>
<td>University Choral Union (Upper Years)</td>
<td>W1</td>
<td>3</td>
<td>Thu</td>
<td>5:00 p.m.-7:00 p.m.</td>
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<tr>
<td>MUSC_V 371_S-001</td>
<td>MUSC_V 371_S</td>
<td>Music Performance (Secondary)</td>
<td>W1</td>
<td>3</td>
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<td>3:30 p.m.-4:30 p.m.</td>
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<td>MUSC_V 392-A-001</td>
<td>MUSC_V 392_A</td>
<td>Special Projects</td>
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<td>MUSC_V 392-B-002</td>
<td>MUSC_V 392_B</td>
<td>Special Projects</td>
<td>W2</td>
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<td>MUSC_V 392-C-003</td>
<td>MUSC_V 392_C</td>
<td>Special Projects</td>
<td>W1</td>
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<td>MUSC_V 393-A-001</td>
<td>MUSC_V 393_A</td>
<td>Selected Topics in Music</td>
<td>W1</td>
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<td>MUSC_V 393_B</td>
<td>Selected Topics in Music</td>
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<td>MUSC_V 393_C</td>
<td>Selected Topics in Music</td>
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MUSIC_V 403-D_001 MUSIC_V 403-D_001 Selected Topics in Music W1 See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students. In Person Learning Mon Wed 10:30 a.m. - 12:30 p.m.

MUSIC_V 403-E_001 MUSIC_V 403-E_001 Selected Topics in Music W1 See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students. In Person Learning Mon 8:00 a.m. - 9:30 a.m.

MUSIC_V 403-F_001 MUSIC_V 403-F_001 Selected Topics in Music W1 See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students. In Person Learning Wed 1:00 p.m. - 3:00 p.m.

MUSIC_V 403-H_001 MUSIC_V 403-H_001 Selected Topics in Music W1 See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students. In Person Learning Thu 1:00 p.m. - 3:00 p.m.

MUSIC_V 403-I_001 MUSIC_V 403-I_001 Selected Topics in Music W2 See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students. In Person Learning Tue 1:00 p.m. - 3:00 p.m.

MUSIC_V 403-R_001 MUSIC_V 403-R_001 Selected Topics in Music W2 See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students. In Person Learning Mon 1:00 p.m. - 3:00 p.m.

MUSIC_V 403-U_001 MUSIC_V 403-U_001 Selected Topics in Music W1 See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students. In Person Learning Thu 3:00 a.m. - 12:00 p.m.

MUSIC_V 403-W_001 MUSIC_V 403-W_001 Selected Topics in Music W1 See School of Music schedule for description and prerequisites. Restricted to B. Mus. and B.A. in Music students. In Person Learning Thu 10:30 a.m. - 12:00 p.m.

MUSIC_V 403-X_001 MUSIC_V 403-X_001 Selected Topics in Music W2 Continuation of MUSIC 367. 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. - 3:30 p.m.

MUSIC_V 407-C_001 MUSIC_V 407-C_001 Composition IV W1-2 Analytical approaches that complement Sinekarian analysis, including motivic construction, harmonic rhythm and phrase rhythm, chromaticism and enharmonicism, features of musical form, aspects of structure and hierarchy on the small and large scale. Prerequisite: MUSC 206. In Person Learning Wed 10:00 a.m. - 1:00 p.m.

MUSIC_V 411-001 MUSIC_V 411-001 Analysis of Tonal Music W1 Analysis of late- and post-romantic works within a theoretical framework that bridges earlier to later works. Assignments in various formats, emphasizing analysis but possibly including composition. Prerequisite: MUSC 206. In Person Learning Tue Thu 10:00 a.m. - 12:30 p.m.

MUSIC_V 412-001 MUSIC_V 412-001 Analytical Studies in the Development of Musical Modernism (1860 - 1940) W1 Analytical study of the diverse concert music repertoire since 1850, including orchestral, chamber, solo, and electro-acoustic genres. Applicable theories of pitch and rhythm, with reference to composer’s own writings. Prerequisite: MUSIC 306. W1-2 In Person Learning Wed Fri 1:00 p.m. - 3:30 p.m.

MUSIC_V 413-001 MUSIC_V 413-001 Contemporary Art Music: Theory and Analysis W2 A technical approach to the diverse concert music repertoire since 1950, including orchestral, chamber, solo, and electro-acoustic genres. Applicable theories of pitch and rhythm, with reference to composer’s own writings. Prerequisite: MUSIC 306. In Person Learning Mon Wed 10:30 a.m. - 12:30 p.m.

MUSIC_V 414-001 MUSIC_V 414-001 Counterpoint W1 Analysis and composition of pieces that rely on the control and development of imitation, polyphonic textures. Models to be taken from one or more European historical repertoires. Prerequisite: MUSIC 206. In Person Learning Mon 1:00 p.m. - 3:30 p.m.

MUSIC_V 430-001 MUSIC_V 430-001 Music Technology Capstone Project W1-2 Supervised individual music technology project on an approved topic. Restricted to students in the Minor in Applied Music Technology. Prerequisite: MUSIC 419. And permission of the Instructor. In Person Learning Mon Wed 1:00 p.m. - 3:30 p.m.

MUSIC_V 432-001 MUSIC_V 432-001 Topics in World Music W1 The history, theory, style, organization, and forms of the music of a particular culture in its aesthetic and cultural context. Students should consult the School as to which music culture will be covered in a particular year. May be repeated once for credit if different cultures are covered. Prerequisite: MUSIC 328 or instructor’s permission. In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.

MUSIC_V 436-001 MUSIC_V 436-001 Topics in World Music W2 The history, theory, style, organization, and forms of the music of a particular culture in its aesthetic and cultural context. Students should consult the School as to which music culture will be covered in a particular year. May be repeated once for credit if different cultures are covered. Prerequisite: MUSIC 328 or instructor’s permission. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.

MUSIC_V 439-001 MUSIC_V 439-001 Accompanying on the Harpsichord II W1-2 Advanced study in the accompaniment of harpsichord and lute. Emphasis on performance and the art of playing in restricted style. Prerequisite: MUSIC 317. In Person Learning Mon Wed 10:30 a.m. - 12:30 p.m.

MUSIC_V 439-001 MUSIC_V 439-001 Opera Workshop II W2 A continuation of MUSIC 339. In Person Learning Mon Wed 4:00 p.m. - 7:00 p.m.

MUSIC_V 440-C_001 MUSIC_V 440-C_001 Song Interpretation W1-2 Interpretation and performance practice of Art Song repertoire for voice and piano collaborations. Restricted to Minors and BMus in Music 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.

MUSIC_V 446-001 MUSIC_V 446-001 Establishing a Career in Music W2 Best practices of the contemporary business of music, focusing on understanding present market conditions, and on targeting specific opportunities through grant-writing, resumes, press kits, publicity, networking, and marketing. Restricted to fourthyear B.Mus. students. May be taken twice for credit. Open to students by audition, with credit, as stipulated by their faculties. Restricted to students with third-year standing or above. This course is not eligible for Credit/D/Fail grading. Prerequisite: MUSIC 155. In Person Learning Mon Wed 9:30 a.m. - 12:00 a.m.

MUSIC_V 453-A_001 MUSIC_V 453-A_001 University Singers (Upper Voices) W1-2 Advanced study in the performing arts of voice and ensembles. Emphasis on musical, vocal, and acting techniques. Prerequisite: MUSIC 155. In Person Learning Thu 1:00 p.m. - 3:00 p.m.
### Course Listing

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Format</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>MUSC_V 512-A_001</td>
<td>Contemporary Players (Upper Years)</td>
<td>1.00</td>
<td>Recommended pre-requisite: one of MUSC 410, MUSC 411, MUSC 412, MUSC 413. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>12:00 p.m. - 1:00 p.m.</td>
<td>A_001</td>
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<tr>
<td>MUSC_V 512-B_001</td>
<td>Jazz Ensemble (Upper Years)</td>
<td>1.00</td>
<td>Recommended pre-requisite: one of MUSC 400, MUSC 411, MUSC 412, MUSC 413. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>8:00 a.m. - 9:30 a.m.</td>
<td>A_001</td>
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<tr>
<td>MUSC_V 509-B_001</td>
<td>Advanced Musical Analysis</td>
<td>1.00</td>
<td>Recommended pre-requisite: one of MUSC 400, MUSC 411, MUSC 412, MUSC 413. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>10:00 a.m. - 11:30 a.m.</td>
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<td>MUSC_V 509-C_001</td>
<td>Advanced Musical Analysis</td>
<td>1.00</td>
<td>Recommended pre-requisite: one of MUSC 400, MUSC 411, MUSC 412, MUSC 413. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>10:00 a.m. - 11:30 a.m.</td>
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<tr>
<td>MUSC_V 506-A_001</td>
<td>Readings in Orchestral Repertoire</td>
<td>1.00</td>
<td>Standard expertise for orchestral instrumentation. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>9:30 a.m. - 10:30 a.m.</td>
<td>A_001</td>
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<td>MUSC_V 507-C_001</td>
<td>Composition</td>
<td>1.00</td>
<td>The composition of original music for orchestral and/or electronic media. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>12:00 p.m. - 1:30 p.m.</td>
<td>A_001</td>
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<tr>
<td>MUSC_V 508-C_001</td>
<td>Composition</td>
<td>1.00</td>
<td>The composition of original music for orchestral and/or electronic media. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>12:00 p.m. - 1:30 p.m.</td>
<td>A_001</td>
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<td>MUSC_V 509-B_001</td>
<td>Advanced Orchestration and Arranging</td>
<td>1.00</td>
<td>Approved by the Director, School of Music, is required. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>1:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>MUSC_V 512-A_001</td>
<td>Directed Individual Studies</td>
<td>1.00</td>
<td>Approved by the Director, School of Music, is required. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>7:00 p.m. - 9:30 p.m.</td>
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<td>MUSC_V 512-B_001</td>
<td>Directed Individual Studies</td>
<td>1.00</td>
<td>Approved by the Director, School of Music, is required. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>7:00 p.m. - 9:30 p.m.</td>
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<td>MUSC_V 512-C_001</td>
<td>Directed Individual Studies</td>
<td>1.00</td>
<td>Approved by the Director, School of Music, is required. This course is not eligible for Credit/D/Fail grading.</td>
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<td>7:00 p.m. - 9:30 p.m.</td>
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<tr>
<td>MUSC_V 512-D_001</td>
<td>Directed Individual Studies</td>
<td>1.00</td>
<td>Approved by the Director, School of Music, is required. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>7:00 p.m. - 9:30 p.m.</td>
<td>A_001</td>
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MUSC_V 512-E_001  MUSC_V 512 E E_001 Directed Individual Studies W1-2
Approval by the Director, School of Music, is required. This course is not eligible for Credit/No Credit grading. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged

MUSC_V 512-E_010  MUSC_V 512 E E_010 Directed Individual Studies W1-2
Approval by the Director, School of Music, is required. This course is not eligible for Credit/No Credit grading. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged

MUSC_V 520-A_001  MUSC_V 520 A A_001 Introduction to Music Research W1 Principal resources of the research library. This course is not eligible for Credit/No Credit grading. In Person Learning Mon-We 9:00 a.m. - 10:00 a.m.

MUSC_V 521-C_001  MUSC_V 521 C C_001 Seminar in Performance Practices W1-2 Studies in the theoretical and practical problems of musical interpretation. This course is not eligible for Credit/No Credit grading. In Person Learning Arranged Arranged

MUSC_V 521-D_001  MUSC_V 521 D D_001 Seminar in Performance Practices W1-2 Studies in the theoretical and practical problems of musical interpretation. This course is not eligible for Credit/No Credit grading. In Person Learning Mon-We 1:00 p.m. - 4:00 p.m.

MUSC_V 524-B_001  MUSC_V 524 B B_001 Seminar in Renaissance Music W2 This course is not eligible for Credit/No Credit grading. In Person Learning Tue 1:00 p.m. - 3:30 p.m.

MUSC_V 527-H_001  MUSC_V 527 H H_001 Seminar in Nineteenth-Century Music W1 This course is not eligible for Credit/No Credit grading. In Person Learning Thu 1:00 p.m. - 3:30 p.m.

MUSC_V 529-T_001  MUSC_V 529 T T_001 Introduction to Ethnomusicology W1 Preliminary studies in the discipline of ethnomusicology, with an emphasis on history and orientations. This course is not eligible for Credit/No Credit grading. In Person Learning Tue 1:00 p.m. - 3:30 p.m.

MUSC_V 530-B_001  MUSC_V 530 B B_001 Topics in Ethnomusicology W2 Topics involving methodology and fieldwork in non-Western traditions. Topics vary and students should consult the School as to areas of focus in any given term. This course is not eligible for Credit/No Credit grading. In Person Learning Thu 1:00 p.m. - 3:30 p.m.

MUSC_V 531-B_001  MUSC_V 531 B B_001 Seminar in Ethnomusicology W1 Research studies in selected areas or regions of world music cultures. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/No Credit grading. In Person Learning Wed 10:00 a.m. - 12:30 p.m.

MUSC_V 532-J_001  MUSC_V 532 J J_001 Advanced Studies in Music History and Methodology W2 Research seminar on a core or emerging topic in music history or musicology. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/No Credit grading. In Person Learning Mon-We 9:30 a.m. - 11:00 a.m.

MUSC_V 532-W_001  MUSC_V 532 W W_001 Advanced Studies in Music History and Methodology W1 Research seminar on a core or emerging topic in music history or musicology. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/No Credit grading. In Person Learning Thu 10:00 a.m. - 12:30 p.m.

MUSC_V 533-R_001  MUSC_V 533 R R_001 Advanced Studies in Music Theory W2 Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/No Credit grading. In Person Learning Wed 1:00 p.m. - 3:30 p.m.

MUSC_V 533-D_001  MUSC_V 533 D D_001 Advanced Studies in Music Theory W1 Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/No Credit grading. In Person Learning Mon-We 10:10 a.m. - 12:30 p.m.

MUSC_V 533-E_001  MUSC_V 533 E E_001 Advanced Studies in Music Theory W2 Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/No Credit grading. In Person Learning Tue 1:00 p.m. - 3:30 p.m.

MUSC_V 533-F_001  MUSC_V 533 F F_001 Advanced Studies in Music Theory W1 Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/No Credit grading. In Person Learning Wed 1:00 p.m. - 3:30 p.m.

MUSC_V 533-G_001  MUSC_V 533 G G_001 Advanced Studies in Music Theory W2 Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/No Credit grading. In Person Learning Thu 1:00 p.m. - 3:30 p.m.

MUSC_V 533-R_001  MUSC_V 533 R R_001 Advanced Studies in Music Theory W2 Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/No Credit grading. In Person Learning Mon 1:00 p.m. - 3:30 p.m.

MUSC_V 533-U_001  MUSC_V 533 U U_001 Advanced Studies in Music Theory W1 Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/No Credit grading. In Person Learning Thu 12:00 p.m. - 2:30 p.m.

MUSC_V 533-Y_001  MUSC_V 533 Y Y_001 Advanced Studies in Music Theory W2 Research seminar on a core or emerging topic in music theory. May be repeated to a maximum of 12 credits if different topics are covered. This course is not eligible for Credit/No Credit grading. In Person Learning Thu 1:00 p.m. - 3:30 p.m.

MUSC_V 535-001  MUSC_V 535 001 Art Song: Interpretation, Collaboration, and Performance W1-2 This course is not eligible for Credit/No Credit grading. In Person Learning Fri 1:00 p.m. - 3:30 p.m.

MUSC_V 537-C_001  MUSC_V 537 C C_001 Seminar in the Literature of Opera W1-2 Special topics related to the bibliography, history, repertoire and pedagogy of operatic music. This course is not eligible for Credit/No Credit grading. Prerequisite: [MUSC22, MUSC351, MUSC457, MUSC459, MUSC520]
In Person Learning Tue 11:00 a.m. - 1:00 p.m.

MUSC_V 539-C_001  MUSC_V 539 C C_001 Opera Production W1-2 Stylistic and technical studies and participation in the production of opera performances. May be repeated for credit in accordance with program requirements. This course is not eligible for Credit/No Credit grading. Prerequisite: MUSC459 In Person Learning Mon-We 4:00 p.m. - 7:00 p.m.
MUSC_V 544-A_001  MUSC_V 544 A A_001  Seminar in Conducting and Repertoire I  WI-2
Advanced study of conducting techniques and of representative major compositions and literature (earlier historical periods). Emphasis on knowledge and conducting skills that can communicate a thorough understanding of genres, forms, form, textures, and style in rehearsal and performance. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to M.Mus. Conducting (Choral, Orchestral, Wind) or permission of the instructor.
In Person Learning  Mon  5:00 p.m. - 7:00 p.m.

MUSC_V 544-B_001  MUSC_V 544 B B_001  Seminar in Conducting and Repertoire I  WI-2
Advanced study of conducting techniques and of representative major compositions and literature (earlier historical periods). Emphasis on knowledge and conducting skills that can communicate a thorough understanding of genres, forms, form, textures, and style in rehearsal and performance. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to M.Mus. Conducting (Choral, Orchestral, Wind) or permission of the instructor.
In Person Learning  Arranged  Arranged

MUSC_V 545-A_001  MUSC_V 545 A A_001  Seminar in Conducting and Repertoire II  WI-2
Advanced study of conducting techniques and of representative major compositions and literature (later historical periods). Emphasis on knowledge and conducting skills that can communicate a thorough understanding of genres, forms, form, textures, and style in rehearsal and performance. Prerequisite: Restricted to M.Mus. Conducting (Choral, Orchestral, Wind) or permission of the instructor.
In Person Learning  Mon Wed  1:00 p.m. - 3:00 p.m.

MUSC_V 545-B_001  MUSC_V 545 B B_001  Seminar in Conducting and Repertoire II  WI-2
Advanced study of conducting techniques and of representative major compositions and literature (later historical periods). Emphasis on knowledge and conducting skills that can communicate a thorough understanding of genres, forms, form, textures, and style in rehearsal and performance. Prerequisite: Restricted to M.Mus. Conducting (Choral, Orchestral, Wind) or permission of the instructor.
In Person Learning  Tue Thu  4:00 p.m. - 6:00 p.m.

MUSC_V 545-C_001  MUSC_V 545 C C_001  Seminar in Conducting and Repertoire II  WI-2
Advanced study of conducting techniques and of representative major compositions and literature (later historical periods). Emphasis on knowledge and conducting skills that can communicate a thorough understanding of genres, forms, form, textures, and style in rehearsal and performance. Prerequisite: Restricted to M.Mus. Conducting (Choral, Orchestral, Wind) or permission of the instructor.
In Person Learning  Mon  6:00 p.m. - 8:00 p.m.

MUSC_V 546-A_001  MUSC_V 546 A A_001  Master’s Thesis  WI-2
This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.
In Person Learning  Arranged  Arranged

MUSC_V 546-A_002  MUSC_V 546 A A_002  Master's Thesis  WI-2
This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.
In Person Learning  Arranged  Arranged

MUSC_V 546-A_003  MUSC_V 546 A A_003  Master’s Thesis  WI-2
This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.
In Person Learning  Arranged  Arranged

MUSC_V 546-A_004  MUSC_V 546 A A_004  Master’s Thesis  WI-2
This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.
In Person Learning  Mon  12:00 p.m. - 1:00 p.m.

MUSC_V 550-A_001  MUSC_V 550 A A_001  Large Instrumental Ensemble  WI-2
Symphony Orchestra or Wind Ensemble. Open only to graduate students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to M.Mus. Conducting (Choral, Orchestral, Wind) or permission of the instructor.
In Person Learning  Mon Wed  4:00 p.m. - 6:00 p.m.

MUSC_V 550-A_002  MUSC_V 550 A A_002  Large Instrumental Ensemble  WI-2
Symphony Orchestra or Wind Ensemble. Open only to graduate students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to M.Mus. Conducting (Choral, Orchestral, Wind) or permission of the instructor.
In Person Learning  Tue Thu  4:00 p.m. - 7:00 p.m.

MUSC_V 550-A_003  MUSC_V 550 A A_003  Large Instrumental Ensemble  WI-2
Symphony Orchestra or Wind Ensemble. Open only to graduate students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to M.Mus. Conducting (Choral, Orchestral, Wind) or permission of the instructor.
In Person Learning  Mon Wed  3:00 p.m. - 4:00 p.m.

MUSC_V 550-B_001  MUSC_V 550 B B_001  Large Instrumental Ensemble  WI-2
Symphony Orchestra or Wind Ensemble. Open only to graduate students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to M.Mus. Conducting (Choral, Orchestral, Wind) or permission of the instructor.
In Person Learning  Arranged  Arranged

MUSC_V 550-C_001  MUSC_V 550 C C_001  Large Instrumental Ensemble  WI-2
Symphony Orchestra or Wind Ensemble. Open only to graduate students. This course is not eligible for Credit/D/Fail grading. Prerequisite: Restricted to M.Mus. Conducting (Choral, Orchestral, Wind) or permission of the instructor.
In Person Learning  Mon Wed  6:00 p.m. - 8:00 p.m.

MUSC_V 553-A_001  MUSC_V 553 A A_001  University Singers  WI-2
Open only to graduate students. This course is not eligible for Credit/D/Fail grading.
In Person Learning  Thu  1:00 p.m. - 3:00 p.m.

MUSC_V 554-A_001  MUSC_V 554 A A_001  University Choral Union  WI-2
Open only to graduate students. This course is not eligible for Credit/D/Fail grading.
In Person Learning  Tue Thu  5:00 p.m. - 7:00 p.m.

MUSC_V 556-A_001  MUSC_V 556 A A_001  Vocal Chamber Ensemble  WI-2
Open only to graduate students. This course is not eligible for Credit/D/Fail grading.
In Person Learning  Thu  7:00 p.m. - 9:30 p.m.

MUSC_V 556-B_001  MUSC_V 556 B B_001  Vocal Chamber Ensemble  WI-2
Open only to graduate students. This course is not eligible for Credit/D/Fail grading.
In Person Learning  Thu  7:00 p.m. - 9:30 p.m.

MUSC_V 556-C_001  MUSC_V 556 C C_001  Vocal Chamber Ensemble  WI-2
Open only to graduate students. This course is not eligible for Credit/D/Fail grading.
In Person Learning  Mon Wed  4:30 p.m. - 6:00 p.m.

MUSC_V 557-A_001  MUSC_V 557 A A_001  Early Music Ensemble  WI-2
Open only to graduate students. This course is not eligible for Credit/D/Fail grading.
In Person Learning  Mon  1:00 p.m. - 3:00 p.m.

MUSC_V 560-A_001  MUSC_V 560 A A_001  String Chamber Ensembles  WI-2
Open only to graduate students. This course is not eligible for Credit/D/Fail grading.
In Person Learning  Mon Wed Fri  3:00 p.m. - 6:00 p.m.

MUSC_V 560-C_001  MUSC_V 560 C C_001  String Chamber Ensembles  WI-2
Open only to graduate students. This course is not eligible for Credit/D/Fail grading.
In Person Learning  Arranged  Arranged
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<th>Course Code</th>
<th>Location</th>
<th>Instructor</th>
<th>Title</th>
<th>Credits</th>
<th>Days</th>
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<td>MUSC_V 560-E_001</td>
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<td>E</td>
<td>E_001</td>
<td>String Chamber Ensembles</td>
<td>W1-2</td>
<td>Open only to graduate students. This course is not eligible for Credit/D/Fail grading.</td>
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<td>MUSC_V 560-A_001</td>
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<td>A</td>
<td>A_001</td>
<td>Piano Chamber Ensembles</td>
<td>W1-2</td>
<td>Open only to graduate students. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>MUSC_V 562-A_001</td>
<td>C_001</td>
<td>A</td>
<td>A_001</td>
<td>Wind and Percussion Chamber 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>
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<td>B</td>
<td>B_001</td>
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<td>MUSC_V 562-E_001</td>
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<td>E</td>
<td>E_001</td>
<td>Wind and Percussion Chamber 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 562-A_001</td>
<td>C_001</td>
<td>A</td>
<td>A_001</td>
<td>Contemporary Players</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 564-A_001</td>
<td>C_001</td>
<td>A</td>
<td>A_001</td>
<td>Jazz Ensemble</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 565-A_001</td>
<td>C_001</td>
<td>A</td>
<td>A_001</td>
<td>World Music Ensembles</td>
<td>W1-2</td>
<td>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 565-B_001</td>
<td>C_001</td>
<td>B</td>
<td>B_001</td>
<td>World Music Ensembles</td>
<td>W1-2</td>
<td>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 565-D_001</td>
<td>C_001</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>C_001</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_002</td>
<td>C_001</td>
<td>A</td>
<td>A_002</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>C_001</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>C_001</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>C_001</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>C_001</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>C_001</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>C_001</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_717</td>
<td>C_001</td>
<td>D</td>
<td>D_717</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 600-A_001</td>
<td>C_001</td>
<td>A</td>
<td>A_001</td>
<td>Readings in Orchestral Repertoire</td>
<td>W1-2</td>
<td>Continuation of MUSC 561. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>MUSC_V 607-C_001</td>
<td>C_001</td>
<td>C</td>
<td>C_001</td>
<td>Composition</td>
<td>W1-2</td>
<td>Further study for doctoral candidates in Composition. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>
The pagan mythology of pre-Christian Scandinavia and its later appropriations and recycling.

Examine the technical, narrative, and aesthetic features of Northern European films. Credit will be granted for only one of SCAN 414 or NORD 414.

Selected topics for advanced study, such as activism, ethnicity, gender, identity, migration, sexuality, decolonization. Credit will be granted for only one of SCAN 332 or NORD 332.

Multidisciplinary approaches to solving pressing challenges in natural resources. Diversifying perspectives of natural resources and land stewardship. Skill-building in written and verbal communication, collaboration, and critical thinking.

Maritime propulsion systems; ship engines; steering; ship vibrations; on-board systems (piping, HVAC, electricity); advanced propulsion systems. This course is not eligible for Credit/D/Fail grading.

Basic terminology; planning; scheduling; budgeting and cost accounting; risk management; quality control; shipbuilding applications. This course is not eligible for Credit/D/Fail grading.

Credit will be granted for only one of SCAN 333 or NORD 333.

Examine current and emerging research in the circumpolar North. Credit will be granted for only one of SCAN 332 or NORD 332.

Examine the preliminary design of a purpose ship. Students work individually and in teams, using advanced design software and databases. The common special topic will be explored in the current or coming year. Credit will be granted for only one of NAME 580, NAME 578. Recommended co-requisite: All of NAME 501, NAME 522, NAME 502, NAME 581. Name 578.

Examine current and emerging research in Nordic cultural studies. Find out which special topic will be explored in the current or coming year at https://cenes.ubc.ca/courses.

Examine the technical, narrative, and aesthetic features of Northern European films. Credit will be granted for only one of SCAN 332 or NORD 332.

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Examine the technical, narrative, and aesthetic features of Northern European films. Credit will be granted for only one of SCAN 332 or NORD 332.

Examine current and emerging research in the circumpolar North. Credit will be granted for only one of SCAN 332 or NORD 332.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Type</th>
<th>Description</th>
<th>In Person</th>
<th>Arranged</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>NRES V 103-101</td>
<td>100</td>
<td>Pathways in Natural Resources (W1)</td>
<td></td>
<td>Exploration of disciplines within natural resources, including majors in the B.Sc. in Natural Resources degree, potential career pathways, and graduate education options. In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>NRES V 103-101</td>
<td>201</td>
<td>Pathways in Natural Resources (W2)</td>
<td></td>
<td>Exploration of disciplines within natural resources, including majors in the B.Sc. in Natural Resources degree, potential career pathways, and graduate education options. Current issues and cases in Forestry and Land Food Systems are examined with a focus on integration of first year subjects and exposure to both first nations and Western perspectives. Credit will be granted for only one of NRES 100 or FRST 100. This course is not eligible for Credit/Fail grading.</td>
<td>In Person</td>
<td></td>
<td>4:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>NRES V 110-301</td>
<td>110</td>
<td>Land One: First Year Integration Seminar (W2-2)</td>
<td></td>
<td>Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to look-up claims; small class experience. Credit will be granted for only one of NRES 100 or FRST 100 or UFS 100. This course is not eligible for Credit/Fail grading. (3-0-0) Equivalency: FRST 100, UFS 100.</td>
<td>In Person</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>NRES V 120-101</td>
<td>150</td>
<td>Scholarly Writing and Argumentation in Natural Resources (W1)</td>
<td></td>
<td>Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to look-up claims; small class experience. Credit will be granted for only one of NRES 100 or FRST 100 or UFS 100. This course is not eligible for Credit/Fail grading. (3-0-0) Equivalency: FRST 100, UFS 100.</td>
<td>Hybrid Learning</td>
<td>Men/Wed Fri</td>
<td>11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>NRES V 120-102</td>
<td>150</td>
<td>Scholarly Writing and Argumentation in Natural Resources (W1)</td>
<td></td>
<td>Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to look-up claims; small class experience. Credit will be granted for only one of NRES 100 or FRST 100 or UFS 100. This course is not eligible for Credit/Fail grading. (3-0-0) Equivalency: FRST 100, UFS 100.</td>
<td>Hybrid Learning</td>
<td>Men/Wed Fri</td>
<td>3:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>NRES V 120-103</td>
<td>150</td>
<td>Scholarly Writing and Argumentation in Natural Resources (W1)</td>
<td></td>
<td>Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to look-up claims; small class experience. Credit will be granted for only one of NRES 100 or FRST 100 or UFS 100. This course is not eligible for Credit/Fail grading. (3-0-0) Equivalency: FRST 100, UFS 100.</td>
<td>Hybrid Learning</td>
<td>Tue/Thu</td>
<td>11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>NRES V 120-104</td>
<td>150</td>
<td>Scholarly Writing and Argumentation in Natural Resources (W1)</td>
<td></td>
<td>Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to look-up claims; small class experience. Credit will be granted for only one of NRES 100 or FRST 100 or UFS 100. This course is not eligible for Credit/Fail grading. (3-0-0) Equivalency: FRST 100, UFS 100.</td>
<td>Hybrid Learning</td>
<td>Tue/Thu</td>
<td>2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>NRES V 120-201</td>
<td>150</td>
<td>Scholarly Writing and Argumentation in Natural Resources (W2)</td>
<td></td>
<td>Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to look-up claims; small class experience. Credit will be granted for only one of NRES 100 or FRST 100 or UFS 100. This course is not eligible for Credit/Fail grading. (3-0-0) Equivalency: FRST 100, UFS 100.</td>
<td>In Person</td>
<td>Arranged</td>
<td>10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>NRES V 120-202</td>
<td>150</td>
<td>Scholarly Writing and Argumentation in Natural Resources (W2)</td>
<td></td>
<td>Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to look-up claims; small class experience. Credit will be granted for only one of NRES 100 or FRST 100 or UFS 100. This course is not eligible for Credit/Fail grading. (3-0-0) Equivalency: FRST 100, UFS 100.</td>
<td>In Person</td>
<td>Arranged</td>
<td>10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>NRES V 120-203</td>
<td>150</td>
<td>Scholarly Writing and Argumentation in Natural Resources (W2)</td>
<td></td>
<td>Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to look-up claims; small class experience. Credit will be granted for only one of NRES 100 or FRST 100 or UFS 100. This course is not eligible for Credit/Fail grading. (3-0-0) Equivalency: FRST 100, UFS 100.</td>
<td>In Person</td>
<td>Arranged</td>
<td>10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>NRES V 120-204</td>
<td>150</td>
<td>Scholarly Writing and Argumentation in Natural Resources (W2)</td>
<td></td>
<td>Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to look-up claims; small class experience. Credit will be granted for only one of NRES 100 or FRST 100 or UFS 100. This course is not eligible for Credit/Fail grading. (3-0-0) Equivalency: FRST 100, UFS 100.</td>
<td>In Person</td>
<td>Arranged</td>
<td>10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>NRES V 120-205</td>
<td>150</td>
<td>Scholarly Writing and Argumentation in Natural Resources (W2)</td>
<td></td>
<td>Communicating concepts of forestry and links to human and environmental activities through writing, elements of argumentation, evaluating evidence, and searching for and citing references to look-up claims; small class experience. Credit will be granted for only one of NRES 100 or FRST 100 or UFS 100. This course is not eligible for Credit/Fail grading. (3-0-0) Equivalency: FRST 100, UFS 100.</td>
<td>In Person</td>
<td>Arranged</td>
<td>10:00 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>NRES V 200-101</td>
<td>200</td>
<td>Forest Plant Biology I (W1)</td>
<td></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 200 or FRST 200. (2-0-0) Prerequisite: BIOS 125. Equivalency: FRST 200.</td>
<td>In Person</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>NRES V 201-101</td>
<td>201</td>
<td>Forest Ecology (W1)</td>
<td></td>
<td>The structure and function of forest ecosystems, including: ecogenetics, productivity, nutrient, carbon and water cycling, soils, the physical environment, populaion and community ecology, disturbance ecology, ecological succession, biological diversity and ecological resilience. Credit will be granted for only one of NRES 201 or FRST 201. (3-0-0) Corequisite: One of NRES 100, FRST 100. Equivalency: FRST 201.</td>
<td>In Person</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>NRES V 210-101</td>
<td>210</td>
<td>Forest Plant Biology II (W2)</td>
<td></td>
<td>The functional biology of trees and other forest plants in their environment, with emphasis on gametogenesis. Credit will be granted for only one of NRES 210 or FRST 210. (3-0-0) Prerequisite: One of NRES 200, FRST 200. Equivalency: FRST 210.</td>
<td>In Person</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>NRES V 211-101</td>
<td>211</td>
<td>Forest Classification and Silvics (W2)</td>
<td></td>
<td>Forest classification and the application of silvics in forest management, including woodland forest classification systems, the Biogeoclimatic Ecosystem Classification System, and ecosystem diagnosis in the field. Credit will be granted for only one of NRES 211 or FRST 211. (3-2-0) Prerequisite: One of NRES 201, FRST 201. Equivalency: FRST 211.</td>
<td>In Person</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>NRES V 225-101</td>
<td>225</td>
<td>Communications Strategies (W1)</td>
<td></td>
<td>Strategies for thinking critically and writing effectively about topics that engage practitioners in Forestry. Planning, drafting and editing of professional quality documents for specialists and other stakeholders. Developing oral presentation skills. Credit will be granted for only one of NRES 225 or WOOD 225. This course is not eligible for Credit/Fail grading. (3-0-0) Prerequisite: Three credits of first-year English. Equivalency: WOOD 225.</td>
<td>In Person</td>
<td>Men/Wed</td>
<td>3:00 p.m. - 4:10 p.m.</td>
</tr>
<tr>
<td>NRES V 225-102</td>
<td>225</td>
<td>Communications Strategies (W1)</td>
<td></td>
<td>Strategies for thinking critically and writing effectively about topics that engage practitioners in Forestry. Planning, drafting and editing of professional quality documents for specialists and other stakeholders. Developing oral presentation skills. Credit will be granted for only one of NRES 225 or WOOD 225. This course is not eligible for Credit/Fail grading. (3-0-0) Prerequisite: Three credits of first-year English. Equivalency: WOOD 225.</td>
<td>In Person</td>
<td>Men/Wed</td>
<td>3:00 p.m. - 4:10 p.m.</td>
</tr>
<tr>
<td>NRES V 225-201</td>
<td>225</td>
<td>Communications Strategies (W2)</td>
<td></td>
<td>Strategies for thinking critically and writing effectively about topics that engage practitioners in Forestry. Planning, drafting and editing of professional quality documents for specialists and other stakeholders. Developing oral presentation skills. Credit will be granted for only one of NRES 225 or WOOD 225. This course is not eligible for Credit/Fail grading. (3-0-0) Prerequisite: Three credits of first-year English. Equivalency: WOOD 225.</td>
<td>In Person</td>
<td>Men/Wed</td>
<td>3:00 p.m. - 4:10 p.m.</td>
</tr>
</tbody>
</table>

**Notes:** Equivalency: FRST 150, LFS 150.
### Course Descriptions

#### NRES_V 225-202
**Introduction to Geomatics for Natural Resource Management**

- **Credits:** 3
- **Prerequisites:** Second-year standing. Corequisite: One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: FRST 231. [3-2-0]

#### NRES_V 225-203
**Introduction to Geomatics for Natural Resource Management**

- **Credits:** 3
- **Prerequisites:** Second-year standing. Corequisite: One of MATH 100, MATH 180, MATH 184, MATH 190. Equivalency: FRST 231. [3-2-0]

#### NRES_V 231-201
**Introduction to Biometrics**

- **Credits:** 3
- **Prerequisites:** Basic biological concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. Credit will be granted for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340

#### NRES_V 241-202
**Intermediate Geomatics for Natural Resource Management**

- **Credits:** 3
- **Prerequisites:** Basic biophysical concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. Credit will be granted for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340

#### NRES_V 241-201
**Intermediate Geomatics for Natural Resource Management**

- **Credits:** 3
- **Prerequisites:** Basic biophysical concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. Credit will be granted for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340

#### NRES_V 241-101
**Introduction to Geometrics for Natural Resource Management**

- **Credits:** 3
- **Prerequisites:** Basic biophysical concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. Credit will be granted for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340

#### NRES_V 241-102
**Introduction to Geometrics for Natural Resource Management**

- **Credits:** 3
- **Prerequisites:** Basic biophysical concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. Credit will be granted for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340

#### NRES_V 443-201
**Remote Sensing for Ecosystem Management**

- **Credits:** 3
- **Prerequisites:** Basic biophysical concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. Credit will be granted for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340

#### NRES_V 500-001
**Neuroscience I**

- **Credits:** 3
- **Prerequisites:** Basic biophysical concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. Credit will be granted for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340

#### NRES_V 501-001
**Neuroscience II**

- **Credits:** 3
- **Prerequisites:** Basic biophysical concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. Credit will be granted for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340

#### NRES_V 510-A_101
**Topics in Neurodata**

- **Credits:** 3
- **Prerequisites:** Basic biophysical concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. Credit will be granted for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340

#### NRES_V 510-B_101
**Topics in Neurodata**

- **Credits:** 3
- **Prerequisites:** Basic biophysical concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. Credit will be granted for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340

#### NRES_V 510-C_101
**Topics in Neurodata**

- **Credits:** 3
- **Prerequisites:** Basic biophysical concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. Credit will be granted for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340

#### NRES_V 549-001
**Master's Thesis**

- **Credits:** 6
- **Prerequisites:** Basic biophysical concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. Credit will be granted for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340

#### NRES_V 549-002
**Master's Thesis**

- **Credits:** 6
- **Prerequisites:** Basic biophysical concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. Credit will be granted for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340

#### NRES_V 549-003
**Master's Thesis**

- **Credits:** 6
- **Prerequisites:** Basic biophysical concepts related to interpretation of remote sensing data for land management, including the use of films and filters, and interpretation of air photographs, and other imagery. Credit will be granted for only one of NRES 341, NRES 340, CONS 340. Prerequisite: NRES 241. Third-year standing. Equivalency: NRES 340, CONS 340
NRSC_V 553-101  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  Mon  7:00 a.m. - 8:00 a.m.

NRSC_V 553-101  Sensory Systems  W2  Basic systems-level mechanisms underpinning sensory transduction, perception and movement. Restricted to students in the MSc or PhD in Neuroscience. This course is not eligible for Credit/D/Fail grading. [3-0-0]  In Person Learning  Fri  8:00 a.m. - 11:00 a.m.

NRSC_V 553-101  Cognition and Emotion  W2  Systems-level mechanisms underlying cognition and affective behaviour in health and disease. Restricted to students in the MSc or PhD in Neuroscience. This course is not eligible for Credit/D/Fail grading. [3-0-0]  In Person Learning  Fri  8:00 a.m. - 11:00 a.m.

NRSC_V 649-001  Doctoral Dissertation  W1-2  In Person Learning  Arranged  Arranged

NRSC_V 649-002  Doctoral Dissertation  W1  In Person Learning  Arranged  Arranged

NRSC_V 649-003  Doctoral Dissertation  W2  In Person Learning  Arranged  Arranged

NSCI_V 140-101  The Learning Brain  W1  Applications and implications of neuroscience for society and the individual, with a focus on neuroplasticity and neuroeducation. [3-0-0]  In Person Learning  Tue Thu  2:00 p.m. - 3:30 p.m.

NSCI_V 140-201  The Learning Brain  W2  Applications and implications of neuroscience for society and the individual, with a focus on neuroplasticity and neuroeducation. [3-0-0]  In Person Learning  Tue Thu  12:30 p.m. - 2:00 p.m.

NSCI_V 200-001  Fundamentals of Cellular and Molecular Neuroscience  W1  Introduction to the field of neuroscience in general, and to the fields of cellular and molecular neuroscience in particular, with emphasis on neuroanatomy, neurophysiology, and neuropharmacology. This course is not eligible for Credit/D/Fail grading. [3-0-0]  Prerequisite: Second-year standing in the Neuroscience specialization.  In Person Learning  Mon Wed  12:00 p.m. - 2:00 p.m.

NSCI_V 201-001  Fundamentals of Behavioural and Cognitive Neuroscience  W2  Emphasis on the relationship between behaviour and cognitive processes. This course is not eligible for Credit/D/Fail grading. [3-0-0]  Prerequisite: NSCI 200.  In Person Learning  Tue Thu  2:00 p.m. - 3:30 p.m.

NSCI_V 300-101  Laboratory Techniques for the Neurosciences  W1  Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [1-3-0]  Prerequisite: Third-year status in the neuroscience specialization.  In Person Learning  Thu  11:00 a.m. - 12:00 p.m.

NSCI_V 300-201  Laboratory Techniques for the Neurosciences  W2  Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [3-0-0]  Prerequisite: Third-year status in the neuroscience specialization.  In Person Learning  Thu  4:00 p.m. - 5:00 p.m.

NSCI_V 300-101  Laboratory Techniques for the Neurosciences  W1  Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [3-0-0]  Prerequisite: Third-year status in the neuroscience specialization.  In Person Learning  Mon  11:00 a.m. - 2:00 p.m.

NSCI_V 300-102  Laboratory Techniques for the Neurosciences  W1  Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [3-0-0]  Prerequisite: Third-year status in the neuroscience specialization.  In Person Learning  Tue  11:00 a.m. - 2:00 p.m.

NSCI_V 300-103  Laboratory Techniques for the Neurosciences  W1  Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [3-0-0]  Prerequisite: Third-year status in the neuroscience specialization.  In Person Learning  Wed  11:00 a.m. - 2:00 p.m.

NSCI_V 300-121  Laboratory Techniques for the Neurosciences  W2  Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [3-0-0]  Prerequisite: Third-year status in the neuroscience specialization.  In Person Learning  Mon  11:00 a.m. - 2:00 p.m.

NSCI_V 300-122  Laboratory Techniques for the Neurosciences  W2  Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [3-0-0]  Prerequisite: Third-year status in the neuroscience specialization.  In Person Learning  Tue  2:00 p.m. - 5:00 p.m.

NSCI_V 300-123  Laboratory Techniques for the Neurosciences  W2  Laboratory techniques for investigating nervous system function, and for establishing relationships between nervous system function, behaviour, and cognition. This course is not eligible for Credit/D/Fail grading. [3-0-0]  Prerequisite: Third-year status in the neuroscience specialization.  In Person Learning  Wed  11:00 a.m. - 2:00 p.m.

NSCI_V 301-001  Neuroethics, Ethics, and Society  W2  Ethical issues associated with neuroscience, and the impact of neuroscience on society. This course is not eligible for Credit/D/Fail grading. [3-0-0]  Prerequisite: All of NSCI 201, PSYC 277.  In Person Learning  Mon  2:00 p.m. - 5:00 p.m.

NSCI_V 302-001  Mechanisms of Nervous System Dysfunction and Recovery  W1  Physiological mechanisms of neurological and psychiatric disorders and recovery from those disorders. This course is not eligible for Credit/D/Fail grading. [3-0-0]  Prerequisite: NSCI 201.  In Person Learning  Mon Wed  2:00 p.m. - 3:30 p.m.

NSCI_V 303-001  Foundations of Computational Neuroscience  W2  Introduction to the field of neuroscience in general, and to the fields of cellular and molecular neuroscience in particular, with emphasis on neuroanatomy, neurophysiology, and neuropharmacology. This course is not eligible for Credit/D/Fail grading. [3-0-0]  Prerequisite: All of NSCI 201, PSYC 277.  In Person Learning  Tue Thu  11:00 a.m. - 12:30 p.m.

NSCI_V 303-001  Foundations of Computational Neuroscience  W2  Introduction to the field of neuroscience in general, and to the fields of cellular and molecular neuroscience in particular, with emphasis on neuroanatomy, neurophysiology, and neuropharmacology. This course is not eligible for Credit/D/Fail grading. [3-0-0]  Prerequisite: NSCI 201.  In Person Learning  Tue Thu  11:00 a.m. - 12:30 p.m.

NSCI_V 304-001  Neuroethics, Ethics, and Society  W2  Ethical issues associated with neuroscience, and the impact of neuroscience on society. This course is not eligible for Credit/D/Fail grading. [3-0-0]  Prerequisite: All of NSCI 201, PSYC 277.  In Person Learning  Mon  2:00 p.m. - 5:00 p.m.

NSCI_V 305-001  Cooperative Work Placement I  W1  Cooperative work placement is not eligible for Credit/D/Fail grading. [3-0-0]  Prerequisite: Co-op workshops, and third-year standing in the neuroscience specialization.  In Person Learning  Arranged  Arranged

NSCI_V 306-110  Sensorimotor Systems  W2  Sensorimotor systems.  In Person Learning  Arranged  Arranged

NSCI_V 306-110  Sensorimotor Systems  W2  Sensorimotor systems.  In Person Learning  Arranged  Arranged
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### Description

- **Cooperative Work Placement I**
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  - **In Person Learning:** Arranged
  - **Notes:** Arranged

- **Cooperative Work Placement II**
  - **Credits:** 510
  - **In Person Learning:** Arranged

- **Cooperative Work Placement III**
  - **Credits:** 610
  - **In Person Learning:** Arranged

- **Neuroscience Capstone**
  - **Credits:** 2
  - **In Person Learning:** Arranged

- **Directed Studies in Neuroscience I**
  - **Credits:** 1
  - **In Person Learning:** Arranged

- **Directed Studies in Neuroscience II**
  - **Credits:** 2
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- **Directed Studies in Neuroscience III**
  - **Credits:** 3
  - **In Person Learning:** Arranged

- **Directed Studies in Neuroscience IV**
  - **Credits:** 4
  - **In Person Learning:** Arranged

- **Advanced Topics in Cellular and Molecular Neuroscience**
  - **Credits:** 4
  - **Online Learning:** Arranged

- **Stress and Strategies to Promote Well-Being**
  - **Credits:** 3
  - **In Person Learning:** Arranged

- **Directed Investigation of a Neuroscience Research Question**
  - **Credits:** 6
  - **In Person Learning:** Arranged

- **Directed Investigation of a Neuroscience Research Question II**
  - **Credits:** 7
  - **In Person Learning:** Arranged

- **Directed Investigation of a Neuroscience Research Question III**
  - **Credits:** 8
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- **Directed Investigation of a Neuroscience Research Question IV**
  - **Credits:** 9
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- **Introduction to Foundational Knowledge Related to Stress, Stressors, Resilience, Social Support, and Strategies to Foster Physical, Mental, Emotional, and Spiritual Health**
  - **Credits:** 10
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- **Introduction to Foundational Knowledge Related to Stress, Stressors, Resilience, Social Support, and Strategies to Foster Physical, Mental, Emotional, and Spiritual Health II**
  - **Credits:** 11
  - **Online Learning:** Arranged

- **Introduction to Foundational Knowledge Related to Stress, Stressors, Resilience, Social Support, and Strategies to Foster Physical, Mental, Emotional, and Spiritual Health III**
  - **Credits:** 12
  - **Online Learning:** Arranged

- **Introduction to Foundational Knowledge Related to Stress, Stressors, Resilience, Social Support, and Strategies to Foster Physical, Mental, Emotional, and Spiritual Health IV**
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<td>Theoretical Perspectives in Nursing: Primary Health Care</td>
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<td>0.02</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</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>8:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</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>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>NURS_V 321-002</td>
<td>Foundational Skills and Competencies for Clinical Practice II</td>
<td>0.01</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>NURS_V 322-001</td>
<td>Theoretical Perspectives in Nursing: Infants, Children, Youth and their Families</td>
<td>0.01</td>
<td>W1</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>NURS_V 330-001</td>
<td>Critical Inquiry and Leadership Synthesis</td>
<td>0.01</td>
<td>W1</td>
<td>8:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>NURS_V 344-002</td>
<td>Theoretical Perspectives in Nursing: Adults/Older Adults and their Families</td>
<td>0.01</td>
<td>W1</td>
<td>7:00 a.m. - 7:30 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>NURS_V 345-001</td>
<td>Foundational Skills and Competencies for Clinical Practice I</td>
<td>0.01</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>NURS_V 345-002</td>
<td>Theoretical Perspectives in Nursing: Childbearing Individuals and their Families</td>
<td>0.01</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>NURS_V 346-001</td>
<td>Theoretical Perspectives in Nursing: Infants, Children, Youth and their Families</td>
<td>0.01</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>NURS_V 346-002</td>
<td>Theoretical Perspectives in Nursing: Infants, Children, Youth and their Families</td>
<td>0.01</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>NURS_V 350-002</td>
<td>Critical Inquiry and Research in Health Care Practice</td>
<td>0.01</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>NURS_V 351-002</td>
<td>Leadership, Policy, and Informatics</td>
<td>0.02</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>NURS_V 352-001</td>
<td>Theoretical Perspectives in Nursing: Complexities in Seniors Care</td>
<td>0.01</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>NURS_V 353-002</td>
<td>Theoretical Perspectives in Nursing: People Living with Mental Health Challenges and Their Families</td>
<td>0.02</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>NURS_V 354-001</td>
<td>Critical Inquiry and Research in Health Care Practice</td>
<td>0.01</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</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>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>
Clinical practice to integrate and consolidate professional nursing knowledge, skills and competencies in the context of primary health care. This course is not eligible for Credit/D/Fail grading.

Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 351, NURS 360.

Corequisite: NURS 301 and one of NURS 312, NURS 401.

In Person Learning West Thu Fri
8:00 a.m. - 8:10 a.m.

NURS 530-002

Clinical practice to integrate and consolidate professional nursing knowledge, skills and competencies in the context of primary health care. This course is not eligible for Credit/D/Fail grading.

Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 351, NURS 360.

Corequisite: NURS 301 and one of NURS 312, NURS 401.

In Person Learning Arranged
Arranged

NURS 530-001

Nursing Practice with Childbearing Individuals and Families

W1

Students will apply theory and concepts from a life course perspective in provision of nursing care to persons living with mental health challenges and their families. This course is not eligible for Credit/D/Fail grading.

Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 301 and one of NURS 312, NURS 401.

In Person Learning West Thu Fri
8:00 a.m. - 8:10 a.m.

NURS 530-002

Nursing Practice with Childbearing Individuals and Families

W2

Students will apply theory and concepts from a life course perspective in provision of nursing care to persons living with mental health challenges and their families. This course is not eligible for Credit/D/Fail grading.

Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 301 and one of NURS 312, NURS 401.

In Person Learning West Thu Fri
8:00 a.m. - 8:10 a.m.

NURS 530-001

Nursing Practice with Childbearing Individuals and Families

W1

Clinical practice to integrate and consolidate professional nursing knowledge, skills and competencies in the care of childbearing individuals, infants, and their families. This course is not eligible for Credit/D/Fail grading.

Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 301 and one of NURS 312, NURS 401.

In Person Learning West Thu Fri
9:00 a.m. - 10:00 p.m.

NURS 530-002

Nursing Practice with Childbearing Individuals and Families

W2

Nursing practice to integrate and consolidate professional nursing knowledge, skills and competencies in the care of infants, children, youth and their families. This course is not eligible for Credit/D/Fail grading.

Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 301 and one of NURS 312, NURS 401.

In Person Learning West Thu Fri
9:30 p.m. - 10:00 p.m.

NURS 530-001

Clinical practice to integrate and consolidate professional nursing knowledge, skills and competencies in the care of infants, children, youth and their families. This course is not eligible for Credit/D/Fail grading.

Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 301 and one of NURS 312, NURS 401.

In Person Learning West Thu Fri
9:30 p.m. - 10:00 p.m.

NURS 530-002

Nursing Practice with Infants, Children, Youth and their Families: Practicum

W2

Nursing practice to consolidate nursing knowledge, theory, evidence, and practice, and facilitate the transition to professional practice. This course is not eligible for Credit/D/Fail grading.

Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: NURS 345 and one of NURS 323, NURS 401.

In Person Learning West Thu Fri
9:30 a.m. - 10:00 p.m.

NURS 530-001

Foundational Skills and Competencies for Clinical Practice IV

W1

Students are prepared with the skills and competencies for clinical practice in simulated acute and community settings through a variety of modalities and learning activities. This course is not eligible for Credit/D/Fail grading.

Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360. Corequisite: Either (a) all of NURS 345, NURS 346, NURS 366 or (b) all of NURS 302, NURS 363, NURS 368, NURS 362.

In Person Learning Arranged
Arranged

NURS 530-002

Foundational Skills and Competencies for Clinical Practice V

W2

Students are guided to consolidate skills and competencies for clinical practice through a variety of modalities and learning activities. This course is not eligible for Credit/D/Fail grading.

Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 352, NURS 360, NURS 363, NURS 362, NURS 366, NURS 401. Corequisite: NURS 430.

In Person Learning Arranged
Arranged

NURS 531-001

Consolidated Practice Experience

W2

Nursing practice to consolidate nursing knowledge, theory, evidence, and practice, and facilitate the transition to professional practice. This course is not eligible for Credit/D/Fail grading.

Prerequisite: All of NURS 300, NURS 310, NURS 321, NURS 322, NURS 330, NURS 351, NURS 352, NURS 360, NURS 363, NURS 362, NURS 364, NURS 366. Corequisite: NURS 430.

In Person Learning Mon
8:00 a.m. - 12:00 p.m.

NURS 531-002

Theoretical Perspectives in Nursing: Special Topics in Complex and Urgent Health Challenges across Settings/Populations

W2

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

In Person Learning Fri
8:00 a.m. - 10:00 a.m.

NURS 532-002

Ethics and Politics of Nursing

W2

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

In Person Learning Arranged
Arranged

NURS 532-001

Ethics and Politics of Nursing

W2

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

Online Learning Arranged
Arranged

NURS 534-001

Research and Evidence-Based Practice

W1

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

In Person Learning Tue
8:00 a.m. - 12:00 p.m.

NURS 534-002

Research and Evidence-Based Practice

W2

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

In Person Learning Thu
9:00 a.m. - 12:00 p.m.

NURS 534-001

Research and Evidence-Based Practice

W1

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

Online Learning Wed
1:00 p.m. - 4:00 p.m.

NURS 534-002

Research and Evidence-Based Practice

W2

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

In Person Learning Thu
9:00 a.m. - 12:00 p.m.

NURS 536-001

Health Promotion in Practice

W1

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

In Person Learning Mon
1:00 p.m. - 4:00 p.m.

NURS 536-001

Health Promotion in Practice

W1

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

In Person Learning Tue
1:00 p.m. - 4:00 p.m.

NURS 537-002

Pharmacology and Therapeutics in Primary Care

W2

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

In Person Learning Wed
1:00 p.m. - 4:00 p.m.

NURS 537-002
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Days</th>
<th>Time</th>
<th>Delivery Method</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS_V 548-001</td>
<td>Pathophysiological Processes for Nurse Practitioners</td>
<td>W1</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>Online Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>NURS_V 530-101</td>
<td>Pathophysiological Processes for Nurse Practitioners</td>
<td>W1</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>Online Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>NURS_V 530-002</td>
<td>Clinical Procedures in Primary Care Settings</td>
<td>W2</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>NURS_V 530-201</td>
<td>Clinical Procedures in Primary Care Settings</td>
<td>W2</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>NURS_V 530-103</td>
<td>Clinical Procedures in Primary Care Settings</td>
<td>W2</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>NURS_V 511-001</td>
<td>Theoretical Foundations of Nursing Practice</td>
<td>W1</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>NURS_V 511-101</td>
<td>Theoretical Foundations of Nursing Practice</td>
<td>W1</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
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<tr>
<td>NURS_V 511-002</td>
<td>Theoretical Foundations of Nursing Practice</td>
<td>W1</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>NURS_V 511-102</td>
<td>Theoretical Foundations of Nursing Practice</td>
<td>W1</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>NURS_V 512-001</td>
<td>Leadership in Nursing and Health</td>
<td>W1</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon</td>
</tr>
<tr>
<td>NURS_V 520-001</td>
<td>Administrative Leadership in Nursing</td>
<td>W1</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>Online Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>NURS_V 530-002</td>
<td>Advanced Practice in Nursing</td>
<td>W2</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>NURS_V 531-002</td>
<td>Theoretical Foundations of Clinical Education</td>
<td>W2</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon</td>
</tr>
<tr>
<td>NURS_V 535-001</td>
<td>Design of Clinical Informatics Solutions</td>
<td>W1</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>Online Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>NURS_V 536-002</td>
<td>Planning and Implementation in Clinical Informatics</td>
<td>W2</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>Online Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>NURS_V 541-001</td>
<td>Clinical Nursing Education</td>
<td>W1</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Tue</td>
</tr>
<tr>
<td>NURS_V 542-002</td>
<td>Social Epidemiology: Special Populations</td>
<td>W2</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Mon</td>
</tr>
<tr>
<td>NURS_V 543-001</td>
<td>Qualitative Methods and Analysis</td>
<td>W1</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>NURS_V 544-001</td>
<td>Quantitative Research Methods and Analytic Strategies in Nursing and Health Sciences</td>
<td>W1</td>
<td>1:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Location</td>
<td>Days</td>
<td>Time</td>
<td>Notes</td>
</tr>
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<tr>
<td>NURS_V 552-002</td>
<td>Methods in Nursing Science.</td>
<td>In Person Learning</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 504. Corequisite: NURS 511. In Person Learning Tue 9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>NURS_V 552-001</td>
<td>Methods in Nursing Science.</td>
<td>In Person Learning</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 504. Corequisite: NURS 511. Online Learning Tue 9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>NURS_V 554-002</td>
<td>Advanced Research Methods.</td>
<td>In Person Learning</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: All of NURS 504, NURS 548, NURS 551. In Person Learning Wed 9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>NURS_V 560-001</td>
<td>The Politics of Health Policy.</td>
<td>In Person Learning</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading. Corequisite: NURS 511. Or be enrolled in the MHLP program. In Person Learning Wed 1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>NURS_V 571-001</td>
<td>Directed Studies in Nursing</td>
<td>In Person Learning</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Tue 9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>NURS_V 572-002</td>
<td>PRIMARY CARE III</td>
<td>In Person Learning</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Tue 1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>NURS_V 576-001</td>
<td>Topics in Social and Environmental Planning to Foster Health of Populations</td>
<td>In Person Learning</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>Characteristics of social and built environments for their impact on the health of populations. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon 1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>NURS_V 577-A-001</td>
<td>Graduate Practicum in Nursing</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>NURS_V 577-A-002</td>
<td>Graduate Practicum in Nursing</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>NURS_V 577-B-001</td>
<td>Graduate Practicum in Nursing</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>NURS_V 580-001</td>
<td>The Philosophy of Evidence</td>
<td>In Person Learning</td>
<td>W1</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>Students not enrolled in the doctoral program require permission of instructor. This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 511. In Person Learning Wed 1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>NURS_V 581-003</td>
<td>Leadership in Knowledge Application and Translation</td>
<td>In Person Learning</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: NURS 580. In Person Learning Thu 1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>NURS_V 585-5_S-002</td>
<td>Special Topics in Nursing</td>
<td>In Person Learning</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Wed 1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>NURS_V 586-H-002</td>
<td>Specialized Domains of Nursing Practice</td>
<td>In Person Learning</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Wed 1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>NURS_V 586-I-002</td>
<td>Specialized Domains of Nursing Practice</td>
<td>In Person Learning</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading. Online Learning Thu 12:30 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>NURS_V 590-A-001</td>
<td>Directed Studies in Nursing</td>
<td>In Person Learning</td>
<td>W1-2</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>NURS_V 590-A-101</td>
<td>Directed Studies in Nursing</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>NURS_V 590-A-022</td>
<td>Directed Studies in Nursing</td>
<td>In Person Learning</td>
<td>W2</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>NURS_V 590-S-001</td>
<td>Directed Studies in Nursing</td>
<td>In Person Learning</td>
<td>W1-2</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>NURS_V 590-S-101</td>
<td>Directed Studies in Nursing</td>
<td>In Person Learning</td>
<td>W1</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>NURS_V 590-S-102</td>
<td>Directed Studies in Nursing</td>
<td>In Person Learning</td>
<td>W2</td>
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<tr>
<td>NURS_V 591-002</td>
<td>Critical and Professional Issues in NP Practice</td>
<td>In Person Learning</td>
<td>W2</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Tue 9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>NURS_V 596-001</td>
<td>Culminating Project</td>
<td>In Person Learning</td>
<td>W1-2</td>
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<td>Week</td>
<td>Type</td>
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<td>NURS_V 596-101</td>
<td>Culminating Project</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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<td>NURS_V 596-201</td>
<td>Culminating Project</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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<td>NURS_V 599-001</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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<td>NURS_V 599-101</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>
<td>Arranged</td>
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<td>NURS_V 599-202</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>
<td>Arranged</td>
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<tr>
<td>NURS_V 601-001</td>
<td>Doctoral Seminar</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>NURS_V 601-101</td>
<td>Doctoral Seminar</td>
<td>W1</td>
<td>In Person Learning</td>
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<td>NURS_V 601-201</td>
<td>Doctoral Seminar</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
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<tr>
<td>OBST_V 502-001</td>
<td>Physiology of the Mother, Fetus and Newborn</td>
<td>W1</td>
<td>Functional development of the placenta and major organ systems in the fetal and newborn period in man and animals.</td>
<td>In Person Learning</td>
<td>Tue</td>
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<tr>
<td>OBST_V 503-001</td>
<td>Fetal and Placental Metabolism</td>
<td>W2</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>OBST_V 506-001</td>
<td>Seminars in Reproductive Biology</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>Course Code</td>
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<td>Title</td>
<td>Term</td>
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<td>OBST_V 649-001</td>
<td>649</td>
<td>Doctoral Dissertation</td>
<td>W1-2</td>
<td>In Person Learning</td>
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<tr>
<td>OBST_V 649-002</td>
<td>649</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>In Person Learning</td>
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<tr>
<td>OBST_V 649-003</td>
<td>649</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
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<tr>
<td>ONCO_V 502-001</td>
<td>502</td>
<td>Concepts in Oncology</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>ONCO_V 510-001</td>
<td>510</td>
<td>Seminars in Oncology</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>ONCO_V 510-101</td>
<td>510</td>
<td>Seminars in Oncology</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>ONCO_V 510-102</td>
<td>510</td>
<td>Seminars in Oncology</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>ONCO_V 548-A_001</td>
<td>548</td>
<td>Oncology Rotation I</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>ONCO_V 548-B_001</td>
<td>548</td>
<td>Oncology Rotation II</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>ONCO_V 549-001</td>
<td>549</td>
<td>Master of Science 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>ONCO_V 549-002</td>
<td>549</td>
<td>Master of Science 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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<td>ONCO_V 549-003</td>
<td>549</td>
<td>Master of Science 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>ORNT_V 400-002</td>
<td>400</td>
<td>Orientation to Medical School and Profession</td>
<td>W1</td>
<td>A general introduction to the medical school including beliefs and values embedded within the curriculum. The overall curricular design and expectations regarding evaluation are discussed. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ORPA_V 508-301</td>
<td>508</td>
<td>Advanced Orthopaedics I</td>
<td>W1-2</td>
<td>Selected topics in orthopaedic surgery and related basic sciences. Given in alternate years. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ORPA_V 509-301</td>
<td>509</td>
<td>Advanced Orthopaedics II</td>
<td>W1-2</td>
<td>The second year of the above program which will be given in alternate years. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ORPA_V 715-301</td>
<td>715</td>
<td>Orthopaedic Clinic</td>
<td>W1-2</td>
<td>Evaluation of new patients and diagnosis and treatment of appropriate diseases. Basic signs and clinical features are both stressed in the total management of the patient. Two hours per week in the Outpatient Department under supervision of an orthopaedics faculty member.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ORPA_V 716-301</td>
<td>716</td>
<td>Orthopaedic Bedside Clinic</td>
<td>W1-2</td>
<td>Evaluation of orthopaedic diseases and injuries in patients at bedside. A review of clinical features is correlated with relevant physiology and pathology.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ORPA_V 717-301</td>
<td>717</td>
<td>Orthopaedic Grand Rounds</td>
<td>W1-2</td>
<td>Formal presentations by the orthopaedic residents, fellows, faculty and guests. Subject matter includes the whole spectrum of orthopaedics.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ORPA_V 718-301</td>
<td>718</td>
<td>Rheumatology Conference</td>
<td>W1-2</td>
<td>Evaluation of patients with rheumatological disorders are presented for discussion and evaluation in this combined conference, which rheumatologists and orthopaedic surgeons who have a special interest in reconstructive surgery attend. During each weekly two hour session, patients with difficult management problems are presented for clinical evaluation and discussion of medical and orthopaedic treatment.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>ORPA_V 719-301</td>
<td>719</td>
<td>Orthopaedic Surgical Anatomy</td>
<td>W1-2</td>
<td>A course in clinical anatomy as applied to orthopaedics. A regional approach involving surgical dissections in cadavers. Each session lasts two hours. Emphasis is on surgical anatomical approach.</td>
<td>In Person Learning</td>
</tr>
</tbody>
</table>
Weekly lectures by orthopaedic faculty and guest faculty from other departments. Lecture topics include applied physiology, anatomy, and pathology as they relate to orthopaedic diseases.

A series of seminars is given weekly, and during each 2-hour session a topic in clinical orthopaedics is reviewed. The subject matter includes the whole spectrum of orthopaedics. One or more faculty members are in attendance at each seminar.

Case presentation in pediatria orthopaedics, stressing history, physical findings and total management of the patient, including a review of pediatric fractures with a max.

The practical application of orthopaedics in the operating room with discussion of techniques of surgery, anatomy, pathology, pathophysiology and complications of diseases.

Orthopaedic trauma residents are reviewed, with emphasis being placed on applied basic science, surgical anatomy, diagnosis and definitive management. These sessions are supervised by a faculty member and are held weekly, each session lasting one hour.

A review of musculoskeletal oncology and related problems with presentation of clinical and laboratory information, radiographs and pathological materials. One and one-half hours monthly.

Onto physical therapy, current research is examined for its relation to personal and social determinants of health. [0-3] 0-3 0-3 0-3

Fundamentals of occupational therapy, including values and beliefs, conceptual models, client-centered principles, and practice process frameworks are introduced. Professional reasoning is demonstrated through resolution of case-based client occupational issues. Critical appraisal of therapy from an integrated understanding of occupation and health. This course is not eligible for Credit/D/Fail grading. [1-2] 1-2 1-2 1-2

Labs, simulations and tutorials provide opportunities to practice evidence 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. [1-0-1.5]

Explores human occupation, conceptualized as all activities people do based on need, obligation or preference. As the core construct of the discipline of occupational science and practice of occupational therapy, human occupation is examined for its relation to personal and social determinants of health. [1-0-1.5]

A 3-term course, builds upon year 1 to further develop professional reasoning skills, synthesize theory and practice approaches in occupational therapy, and provide opportunities to acquire assessment and intervention skills according to the competencies required by occupational therapy practice. This course is not eligible for Credit/D/Fail grading. [0-3-3]

Conception of profession, reflexivity, cultural humility and collaboration are introduced to develop the skills of a self-directed, culturally safe, lifelong learner, who consciously uses theory, evidence and critical thinking skills to maintain, evaluate and improve their practice of occupational therapy. This course is not eligible for Credit/D/Fail grading.

The practical application of orthopaedics in the operating room with discussion of techniques of surgery, anatomy, pathology, pathophysiology and complications of diseases.

Appraisal of 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. (2-3-2-3)

Preparation for practice concepts to facilitate integration of knowledge and skills introduced in terms 1 & 2 of MOT program; description of emerging Occupational Therapy competencies for a total of 5 weeks of supervised fieldwork experience in affiliated agencies is required. This course is not eligible for Credit/D/Fail grading.

A 3-term course, builds upon year 1 to further develop professional reasoning skills, synthesize theory and practice approaches in occupational therapy, and provide opportunities to acquire assessment and intervention skills according to the competencies required by occupational therapy practice. This course is not eligible for Credit/D/Fail grading.

Developing Evidence for Occupational Therapy Practice

Emphasis on research and critical thinking skills in the framing of occupational science and practice of occupational therapy.

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 skills to maintain, evaluate and improve occupational therapy practice.

To address inequities and meet the occupational needs of diverse communities, students will learn, critique and apply program development principles. Program development principles include needs assessment, program design, budgeting and resource planning, marketing, program evaluation, and proposal writing and presentation. This course is not eligible for Credit/D/Fail grading.

Evidence of integration and synthesis of complex knowledge and skills provided throughout the MOT program to demonstrate Occupational Therapy advanced competencies for a total of 16 weeks of supervised fieldwork experience in affiliated health agencies. This course is not eligible for Credit/D/Fail grading.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Required/Recommended</th>
<th>Duration</th>
<th>Delivery Model</th>
<th>Enrolled</th>
<th>Notes</th>
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<tr>
<td>OSOT_V 558-002</td>
<td>Occupational Therapy Practice: Fieldwork III</td>
<td>0.5</td>
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<td>In Person Learning</td>
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<tr>
<td>OSOT_V 558-01</td>
<td>Occupational Therapy Practice: Fieldwork III</td>
<td>0.5</td>
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<td>OSOT_V 558-1</td>
<td>Occupational Therapy Practice: Fieldwork III</td>
<td>1.0</td>
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<td>OSOT_V 558-2</td>
<td>Occupational Therapy Practice: Fieldwork III</td>
<td>1.0</td>
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<td>In Person Learning</td>
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<tr>
<td>PATH_V 300-001</td>
<td>Background to Medical Laboratory Science</td>
<td>3.0</td>
<td></td>
<td>In Person Learning</td>
<td>Mon</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>PATH_V 301-001</td>
<td>Basic and Physical Biochemistry in Medical Laboratory Science</td>
<td>3.0</td>
<td></td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>8:00 a.m. - 10:00 a.m.</td>
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<tr>
<td>PATH_V 301-002</td>
<td>Basic and Physical Biochemistry in Medical Laboratory Science</td>
<td>3.0</td>
<td></td>
<td>In Person Learning</td>
<td>Wed</td>
<td>1:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>PATH_V 301-003</td>
<td>Cancer Genetics, Molecular Genetics, Tissue Culture &amp; Cytology</td>
<td>3.0</td>
<td></td>
<td>In Person Learning</td>
<td>Fri</td>
<td>9:00 a.m. - 1:00 p.m.</td>
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<tr>
<td>PATH_V 303-001</td>
<td>Clinical Pathology</td>
<td>3.0</td>
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<td>In Person Learning</td>
<td>Mon</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<td>PATH_V 303-003</td>
<td>Diagnostic Histology</td>
<td>4.0</td>
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<td>In Person Learning</td>
<td>Thu</td>
<td>1:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>PATH_V 304-001</td>
<td>Normal Human Histology</td>
<td>3.0</td>
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<td>In Person Learning</td>
<td>Fri</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>PATH_V 305-001</td>
<td>Modern Microscopy</td>
<td>3.0</td>
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<td>In Person Learning</td>
<td>Tue</td>
<td>1:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>PATH_V 306-001</td>
<td>Safety for Medical Laboratory Scientists</td>
<td>3.0</td>
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<td>In Person Learning</td>
<td>Fri</td>
<td>9:00 a.m. - 1:00 p.m.</td>
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<tr>
<td>PATH_V 327-001</td>
<td>Receptor Biology, Myology, Virology and Parasitology</td>
<td>3.0</td>
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<td>In Person Learning</td>
<td>Mon</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>PATH_V 375-001</td>
<td>Introduction to Human Pathology</td>
<td>3.0</td>
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<td>In Person Learning</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>PATH_V 375-002</td>
<td>Introduction to Human Pathology</td>
<td>3.0</td>
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<td>In Person Learning</td>
<td>Tue Thu</td>
<td>1:30 p.m. - 3:00 p.m.</td>
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<tr>
<td>PATH_V 402-001</td>
<td>Medical Laboratory Science: Hematology</td>
<td>3.0</td>
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<td>In Person Learning</td>
<td>Mon</td>
<td>12:00 p.m. - 2:00 p.m.</td>
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<td>PATH_V 404-001</td>
<td>Diagnostic Histology</td>
<td>4.0</td>
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<td>In Person Learning</td>
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<td>PATH_V 405-001</td>
<td>Seminar in Current Topics</td>
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<td>In Person Learning</td>
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<td>PATH_V 406-001</td>
<td>Clinical Chemistry</td>
<td>3.0</td>
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<td>In Person Learning</td>
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<td>9:00 a.m. - 11:00 a.m.</td>
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<td>PATH_V 407-001</td>
<td>Medical Laboratory Toxicology, Analytical, Clinical</td>
<td>3.0</td>
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<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>PATH_V 408-001</td>
<td>Research and Career Skills</td>
<td>3.0</td>
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<td>In Person Learning</td>
<td>Mon</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>515</td>
<td>Immunopathology</td>
<td>Seminar</td>
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<tr>
<td>417 A</td>
<td>Human Bacterial Infections</td>
<td>Seminar</td>
<td></td>
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<td>In Person Learning Mon 10:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>417</td>
<td>Viral Infections in Humans</td>
<td>Seminar</td>
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<td>In Person Learning Mon 10:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>418</td>
<td>Medical Laboratory Science</td>
<td>Seminar</td>
<td></td>
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<td>In Person Learning Mon 10:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>411</td>
<td>Clerkship in Laboratory Medicine</td>
<td>Seminar</td>
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<td>In Person Learning Mon 10:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>501</td>
<td>Foundations of Human Histopathology</td>
<td>Seminar</td>
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<td>In Person Learning Mon 10:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>502</td>
<td>Current Topics in Pathology Research</td>
<td>Seminar</td>
<td></td>
<td></td>
<td>In Person Learning Mon 10:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>531</td>
<td>Molecular and Cell Biology of Cancer</td>
<td>Seminar</td>
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<td></td>
<td>In Person Learning Mon 10:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>516</td>
<td>Basic Epidemiology for Infection Control</td>
<td>Seminar</td>
<td></td>
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<td>In Person Learning Mon 10:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>547</td>
<td>Techniques in Molecular Biology</td>
<td>Seminar</td>
<td></td>
<td></td>
<td>In Person Learning Mon 10:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>548 B</td>
<td>Directed Studies</td>
<td>Seminar</td>
<td></td>
<td></td>
<td>In Person Learning Mon 10:00 a.m. - 10:30 a.m.</td>
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<tr>
<td>548 C</td>
<td>Directed Studies</td>
<td>Seminar</td>
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<td>In Person Learning Mon 10:00 a.m. - 10:30 a.m.</td>
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<td>548 K</td>
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<td>548 O</td>
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<td>In Person Learning Mon 10:00 a.m. - 10:30 a.m.</td>
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<td>549 A</td>
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</table>

**Notes:**
- Code: Course code.
- Name: Course title.
- Type: Type of course (Seminar, Directed Studies).
- Class: Class type (Seminar).
- Days: Days of the week.
- Notes: Additional information about the course (e.g., prerequisites, instructions).

**Course Descriptions:**
- Immunopathology: Study of the immune system and its role in disease.
- Viral Infections in Humans: Study of viral infections and their transmission.
- Medical Laboratory Science: Directed Studies: Focus on laboratory techniques.
- Clerkship in Laboratory Medicine: Practical experience in laboratory medicine.
- Foundations of Human Histopathology: Study of microscopic anatomy.
- Current Topics in Pathology Research: Focus on current research topics.
- Basic Epidemiology for Infection Control: Study of infection control.
- Techniques in Molecular Biology: Study of molecular biology techniques.
- Directed Studies: Directed study programs.

**Course Notes:**
- Some courses require attendance and may be offered in different formats (In Person Learning, Online Learning).
- Credit/D/Fail grading is not applicable for some courses.
<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Delivery</th>
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<th>Notes</th>
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<tbody>
<tr>
<td>PCTH 398</td>
<td>Foundations of Microbiology I</td>
<td>3-0-0</td>
<td>Introductory principles of drug action. Historical and present day medical and non-medical use of drugs.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>PCTH 399</td>
<td>Microbial Infections</td>
<td>3-0-0</td>
<td>A series of experimental demonstrations and individual laboratory experiments illustrating the basic principles of pharmacology.</td>
<td>In Person Learning</td>
<td>Mon-Wed Fri</td>
<td>3:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>PCTH 300</td>
<td>Introductory Pharmacology Laboratory</td>
<td>2-0</td>
<td>Pharmacological modulation of physiological systems in health and disease.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>2:00 p.m. - 5:10 p.m.</td>
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<tr>
<td>PCTH 303</td>
<td>Pharmacology in Health and Disease</td>
<td>3-0-0</td>
<td>The principles and applications underlying the action and disposition of therapeutic agents (including alternative medicine) in the body.</td>
<td>In Person Learning</td>
<td>Mon-Wed Fri</td>
<td>3:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>PCTH 325</td>
<td>Retinal Basis of Drug Therapy</td>
<td>2-0</td>
<td>Co-operative Work Placement I:</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>PCTH 399</td>
<td>Co-operative Work Placement I</td>
<td>2-0</td>
<td>Co-operative Work Placement II:</td>
<td>In Person Learning</td>
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<tr>
<td>PCTH 400</td>
<td>Systematic Pharmacology</td>
<td>4-0-0</td>
<td>A series of demonstrations, group, and individual laboratory experiments designed to illustrate the concepts and hypotheses of pharmacology.</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>PCTH 402</td>
<td>Systematic Pharmacology Laboratory</td>
<td>4-0-0</td>
<td>The techniques, including methods of statistical analysis, used to detect and measure the actions of endogenous or exogenous chemicals, using chemical assays and bioassays as appropriate.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>1:00 p.m. - 3:00 p.m.</td>
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<tr>
<td>PCTH 448</td>
<td>Directed Studies in Pharmacology</td>
<td>2-0</td>
<td>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</td>
<td>In Person Learning</td>
<td>Arranged</td>
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</tr>
<tr>
<td>Code</td>
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<td>Type</td>
<td>Day/Time</td>
<td>Location</td>
<td>Notes</td>
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<td>PCTH</td>
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<td>W1</td>
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<td>5</td>
<td>Seminar in Pharmacology or Therapeutics</td>
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<td>W1-2</td>
<td>Arranged</td>
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<td>Co-operative Work Placement III</td>
<td>In Person</td>
<td>W1</td>
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<td>Directed Studies in Pharmacology</td>
<td>In Person</td>
<td>W1-2</td>
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<td>Seminar in Pharmacology or Therapeutics</td>
<td>In Person</td>
<td>W1-2</td>
<td>Arranged</td>
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<tr>
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<td>In Person</td>
<td>W1-2</td>
<td>Arranged</td>
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<tr>
<td></td>
<td>0.25</td>
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<td>In Person</td>
<td>W1-2</td>
<td>Arranged</td>
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<tr>
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<td>W1-2</td>
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<td>Directed Studies in Pharmacology</td>
<td>In Person</td>
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</table>

In special cases, with the approval of the department head, advanced courses may be arranged. This course is not eligible for Credit/D/Fail grading.

The credit value for this course will be determined in consultation with the student prior to the registration.

The credit value for this course is not eligible for Credit/D/Fail grading.

Restricted to students admitted to the Co-operative Education Program in Pharmacology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PCTH399.

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.

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.

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

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.

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

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.

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.

Regular classwork and would be expected to attend all seminars. This course is not eligible for Credit/D/Fail grading.

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.

Restricted to Honours Pharmacology students. This course is not eligible for Credit/D/Fail grading.

The credit value for this course is not eligible for Credit/D/Fail grading.

Restricted to Honours Pharmacology students. This course is not eligible for Credit/D/Fail grading.

This course is not eligible for Credit/D/Fail grading.
<table>
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<th>Course Code</th>
<th>Title</th>
<th>Format</th>
<th>Schedule</th>
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<tr>
<td>M 100-011</td>
<td>Basic Persian I</td>
<td>In Person Learning</td>
<td>Mon Wed 3:30 p.m. - 4:30 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>M 101-021</td>
<td>Basic Persian II</td>
<td>In Person Learning</td>
<td>Tue Thu 3:30 p.m. - 4:30 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>M 104-021</td>
<td>Persian Reading and Writing for Persian-Speaking Students</td>
<td>In Person Learning</td>
<td>Wed 3:30 p.m. - 4:30 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>M 200-011</td>
<td>Intermediate-Low Persian I</td>
<td>In Person Learning</td>
<td>Mon Wed 12:00 p.m. - 1:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>M 201-021</td>
<td>Intermediate-Low Persian II</td>
<td>In Person Learning</td>
<td>Tue Thu 12:00 p.m. - 1:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>M 103-011</td>
<td>Intermediate-High Persian I</td>
<td>In Person Learning</td>
<td>Mon Wed 12:00 p.m. - 1:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>M 104-011</td>
<td>Intermediate-High Persian II</td>
<td>In Person Learning</td>
<td>Tue Thu 12:00 p.m. - 1:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<td>M 333-011</td>
<td>Persian Media</td>
<td>In Person Learning</td>
<td>Mon Wed 12:00 p.m. - 1:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>M 400-011</td>
<td>Persian Short Story for Native and Heritage Speakers</td>
<td>In Person Learning</td>
<td>Mon Wed 5:00 p.m. - 6:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>M 401-021</td>
<td>Contemporary Iranian Cinema for Advanced Speakers of Persian</td>
<td>In Person Learning</td>
<td>Mon Wed 5:00 p.m. - 6:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>M 451-011</td>
<td>Persian through Ukhranbeh for Advanced Speakers of Persian</td>
<td>In Person Learning</td>
<td>Mon Wed 8:00 a.m - 9:00 a.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>PHAR 180-01</td>
<td>Pharmaceutical Topics and Communication Seminar I</td>
<td>In Person Learning</td>
<td>Tue (Alternate weeks) 8:00 a.m. - 10:00 a.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>PHAR 200-01</td>
<td>Biochemical Pharmacology</td>
<td>In Person Learning</td>
<td>Tue Thu 12:00 p.m. - 2:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>PHAR 203-01</td>
<td>Drug Delivery Technologies and Personalized Medicine Theory and Laboratory</td>
<td>In Person Learning</td>
<td>Tue Thu 12:00 p.m. - 2:00 p.m.</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
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</table>
Theoretical and practical knowledge of biopharmaceuticals, pharmacoeconomics, pharmacology, and precision medicine as they apply to pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading.

In Person Learning Thu (alternate weeks)
8:00 a.m. - 12:00 p.m.

Theoretical and practical knowledge of biopharmaceuticals, pharmacoeconomics, pharmacology, and precision medicine as they apply to pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading.

In Person Learning Tue (alternate weeks)
8:00 a.m. - 12:00 p.m.

Theoretical and practical knowledge of biopharmaceuticals, pharmacoeconomics, pharmacology, and precision medicine as they apply to pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading.

In Person Learning Thu (alternate weeks)
8:00 a.m. - 12:00 p.m.

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.

Population-level study design and critical appraisal skills in evidence evaluations, with a special emphasis on evidence-based pharmacy practice. This course is not eligible for Credit/D/Fail grading.

In Person Learning Mon Wed
9:30 a.m. - 11:00 a.m.

Current topics in the Pharmaceutical and Biotechnology Industry and intermediate level skills for a short presentation. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 180.

In Person Learning Thu
12:00 p.m. - 2:00 p.m.

Basic pharmacokinetic concepts: metabolism, clearance, volume of distribution, half-life, and therapeutic clearance. Basic pharmacogenetic concepts of genetic polymorphisms. This course is not eligible for Credit/D/Fail grading.

In Person Learning Wed Mon
11:00 a.m. - 12:30 a.m.

Advocated nanomedicine concepts for drug packaging, delivery, and efficacy. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 202.

In Person Learning Wed Fri
9:30 a.m. - 11:00 a.m.

Theoretical and practical knowledge of the foundational techniques used in pharmaceutical research in both Academic Research and the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 203, PHAR 204.

In Person Learning Mon
2:00 p.m. - 4:00 p.m.

Theoretical and practical knowledge of the foundational techniques used in pharmaceutical research in both Academic Research and the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 203, PHAR 204.

In Person Learning Thu
8:00 a.m. - 10:00 a.m.

Theoretical and practical knowledge of the foundational techniques used in pharmaceutical research in both Academic Research and the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 203, PHAR 204.

In Person Learning Tue
2:00 p.m. - 4:00 p.m.

Theoretical and practical knowledge of the foundational techniques used in pharmaceutical research in both Academic Research and the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 203, PHAR 204.

In Person Learning Wed
2:00 p.m. - 4:00 p.m.

Theoretical and practical knowledge of the foundational techniques used in pharmaceutical research in both Academic Research and the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 203, PHAR 204.

In Person Learning Wed
2:00 p.m. - 4:00 p.m.

Population-level study design and critical appraisal skills in evidence evaluations, with a special emphasis on evidence-based pharmacy practice and the practical application of population-level data analysis and interpretation. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 205.

In Person Learning Mon
9:00 a.m. - 12:00 p.m.

Structure and mechanisms of action of drugs used in the treatment of major chronic diseases: heart disease, cancer, lung disease, and diabetes. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, PHAR 202.

In Person Learning Thu
11:00 a.m. - 12:30 a.m.

Theoretical and practical knowledge of the analytical sciences commonly used in Academic Research and as well as the Pharmaceutical and Biotechnology Industries. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.

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

Theoretical and practical knowledge of the analytical sciences commonly used in Academic Research as well as the Pharmaceutical and Biotechnology Industries. The course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.

In Person Learning Mon
1:00 p.m. - 3:00 p.m.

Theoretical and practical knowledge of the analytical sciences commonly used in Academic Research as well as the Pharmaceutical and Biotechnology Industries. The course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.

In Person Learning Wed
2:00 p.m. - 4:00 p.m.

Theoretical and practical knowledge of the analytical sciences commonly used in Academic Research as well as the Pharmaceutical and Biotechnology Industries. The course is not eligible for Credit/D/Fail grading. Prerequisite: All of CHEM 211, CHEM 233, CHEM 235, PHAR 204.

In Person Learning Fri
2:00 p.m. - 5:00 p.m.
PHAR 433-001

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

In Person Learning

Pharmacoeconomics

W1

Skills and concepts in pharmacoeconomics as applied to market practice and dosing. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 202.

PHAR 432-001

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

In Person Learning

Adverse Drug Reactions

W1

Therapeutically important privileged scaffolds and functional groups, and selectivity achieved through different chemical modifications. This course is not eligible for Credit/D/Fail grading. Prerequisite: W1 of CHEM 233, PHAR 202.

PHAR 431-001

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

In Person Learning

Functional Foods

W2

Basic principles of biostatistics and epidemiology. Application of epidemiologic and statistical knowledge in the area of health outcomes. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 205.

PHAR 430-001

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

In Person Learning

Advanced Pharmacokinetics

W1

Preliminary skills and concepts for planning, delivering and evaluating a scientific presentation using selected topics in the pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 203.

PHAR 429-001

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

In Person Learning

Clinical Chemistry

W1

Principles, practices and procedures of medical laboratory clinical chemistry. This course is not eligible for Credit/D/Fail grading. Prerequisite: CHEM 233.

PHAR 428-001

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

In Person Learning

Advanced Anesthetics and Analgesics

W1

Advanced concepts in anesthetic and analgesic drugs, their uses and abuses. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 106.

PHAR 427-001

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

In Person Learning

Drug Structures in Medicinal Chemistry

W1

Therapeutically important privileged scaffolds and functional groups, and selectivity achieved through different chemical modifications. This course is not eligible for Credit/D/Fail grading. Prerequisite: W1 of CHEM 233, PHAR 202.

PHAR 426-001

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

In Person Learning

Allopathic Antimicrobials

W1

Advanced concepts in the design and development of antimicrobial drugs. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 280.

PHAR 425-001

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

In Person Learning

Biologics

W2

Biologics as a therapeutic; how biologics are developed as drugs; synthesis and unique properties of biologic as drugs. This course is not eligible for Credit/D/Fail grading.

PHAR 424-001

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

In Person Learning

Funding and Therapeutics in the Canadian Health Care System

W2

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

PHAR 423-001

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

In Person Learning

Selected Topics

W1

Therapeutically important privileged scaffolds and functional groups, and selectivity achieved through different chemical modifications. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 308.

PHAR 422-001

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

In Person Learning

Pharmacokinetics

W1

Advanced drug evaluation skills and understanding the role of, and the methods and principles used in, health economics and economic evaluation in healthcare, with a focus on health technology assessment studies. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 205.

PHAR 421-001

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

In Person Learning

Precision Medicine

W1

Therapeutically important privileged scaffolds and functional groups, and selectivity achieved through different chemical modifications. This course is not eligible for Credit/D/Fail grading.

PHAR 420-001

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

In Person Learning

Therapeutically important privileged scaffolds and functional groups, and selectivity achieved through different chemical modifications. This course is not eligible for Credit/D/Fail grading.

PHAR 419-001

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

In Person Learning

Adverse Drug Reactions

W2

Molecular and physiological basis of common adverse drug reactions (ADRs). Aids in the context of current understanding of drug metabolism and pharmacogenetics. New approaches to prediction, detection and treatment. This course is not eligible for Credit/D/Fail grading.

PHAR 418-001

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

In Person Learning

Clinical Chemistry

W1

Principles, practices and procedures of medical laboratory clinical chemistry. This course is not eligible for Credit/D/Fail grading. Prerequisite: CHEM 233.

PHAR 417-001

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

In Person Learning

Drug Structures in Medicinal Chemistry

W1

Basic principles of biostatistics and epidemiology. Application of epidemiologic and statistical knowledge in the area of health outcomes.

PHAR 416-001

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

In Person Learning

Functional Foods

W2

Basic principles of biostatistics and epidemiology. Application of epidemiologic and statistical knowledge in the area of health outcomes.

PHAR 415-001

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

In Person Learning

Advanced Pharmacokinetics

W1

Preliminary skills and concepts for planning, delivering and evaluating a scientific presentation using selected topics in the pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 203.

PHAR 414-001

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

In Person Learning

Selected Topics

W1

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

PHAR 413-001

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

In Person Learning

Advanced Pharmacokinetics

W1

Preliminary skills and concepts for planning, delivering and evaluating a scientific presentation using selected topics in the pharmaceutical sciences. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR 203.

PHAR 412-001

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

In Person Learning

Clinical Pharmacy

W1

Basic principles of biostatistics and epidemiology. Application of epidemiologic and statistical knowledge in the area of health outcomes.

PHAR 411-001

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

In Person Learning

Functional Foods

W2

Basic principles of biostatistics and epidemiology. Application of epidemiologic and statistical knowledge in the area of health outcomes.

PHAR 410-001

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

In Person Learning

Selected Topics

W1

This course is not eligible for Credit/D/Fail grading.
<p>| PHAR_Y 518-001 | PHAR_Y 508 | 001 | Advanced Applications in Pharmaceutical Research | W1-2 | Pharmacokinetic applications in therapeutic drug monitoring and patient care, specific drugs and disease states, effects of age and concomitant drug administration. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHAR502 | In Person Learning | Arranged | Arranged |
| PHAR_Y 510 | C | 001 | Advanced Pharmacology | W1-2 | A study of physical and chemical properties of pharmaceutical systems with emphasis on formulation and preparative aspects. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| PHAR_Y 511 C_001 | PHAR_Y 510 | C | Advanced Pharmacology | W1-2 | A study of problems in pharmacology with emphasis on biopharmaceutical aspects. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| PHAR_Y 511 E_001 | PHAR_Y 511 | E | Advanced Pharmacology | W1-2 | A study of problems in pharmacology with emphasis on biopharmaceutical aspects. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| PHAR_Y 511 E_004 | PHAR_Y 511 | E | Advanced Pharmacology | W1-2 | A study of problems in pharmacology with emphasis on biopharmaceutical aspects. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| PHAR_Y 515 | 001 | Nanomedicines | W2 | Nano-sized drug delivery systems and their interactions with biological systems. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Wed Fri | 9:30 a.m. - 11:00 a.m. |
| PHAR_Y 520 | 001 | Applied Omics Science for Drug Discovery and Development | W1 | General principles of genomics, proteomics, glycomics, and metabolomics; advanced functional omics techniques and their applications in pharmaceutical research. | In Person Learning | Arranged | Arranged |
| PHAR_Y 521 | 002 | Basic Theory &amp; Practice of Scanning Electron Microscopy and Dynamic Light Scattering | W2 | Sample preparation, standard &amp; advanced imaging techniques; image interpretation &amp; quantification, applications in pharmaceutical research. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Mon Wed Fri | 8:00 a.m. - 10:30 a.m. |
| PHAR_Y 522 | 001 | Basic Theory and Practice of Liquid Chromatography - Mass Spectrometry in Pharmaceutical Research | W1 | Fundamental and practical knowledge and skills in high performance liquid chromatography and tandem mass spectrometry. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| PHAR_Y 522 | 002 | Basic Theory and Practice of Liquid Chromatography - Mass Spectrometry in Pharmaceutical Research | W1 | Fundamental and practical knowledge and skills in high performance liquid chromatography and tandem mass spectrometry. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| PHAR_Y 523 | 001 | Basic Theory &amp; Practice of Isothermal Titration Calorimetry | W1 | Isothermal titration calorimetry: thermodynamic concepts and practical applications in measuring molecular interactions. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| PHAR_Y 524 | 001 | Cell Culture and New Biomedical Approaches | W1 | Basic cell culture techniques and novel insights into alternative methods in biomedical research. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| PHAR_Y 533 A_01A | PHAR_Y 533 | A | A_01A | Clinical Clerkships I | W1-2 | Required clinical rotations of four weeks duration in selected specialty areas in medicine and clinical pharmacy. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| PHAR_Y 534 T | 01T | T | 01T | Clinical Clerkships II | W1-2 | Elective clinical rotations of 4 weeks duration in hospital, office or clinic locations. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Arranged | Arranged |
| PHAR_Y 546-001 | PHAR_Y 546 | 001 | Biology of Diabetes from Cell to Society | W2 | Advanced course in endocrinology and patient care for diabetes and obesity focusing on healthcare quality improvement, patient safety and optimizing outcomes. This course is not eligible for Credit/D/Fail grading. Equivalency: PHRM346. | In Person Learning | Wed | 9:00 a.m. - 10:00 a.m. |
| PHAR_Y 546-001 | PHAR_Y 546 | 001 | M.Sc. Seminar | W1-2 | Attendance at regular seminars throughout the session and presentation of one or more papers on selected topics. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Wed Fri | 12:00 p.m. - 1:00 p.m. |
| PHAR_Y 546-002 | PHAR_Y 546 | 002 | M.Sc. Seminar | W1 | Attendance at regular seminars throughout the session and presentation of one or more papers on selected topics. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Wed | 12:00 p.m. - 1:00 p.m. |
| PHAR_Y 546-003 | PHAR_Y 546 | 003 | M.Sc. Seminar | W2 | Attendance at regular seminars throughout the session and presentation of one or more papers on selected topics. This course is not eligible for Credit/D/Fail grading. | In Person Learning | Wed | 12:00 p.m. - 1:00 p.m. |
| PHAR_Y 546 A_001 | PHAR_Y 546 | A | A_001 | Master's Thesis | W1 | This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. | In Person Learning | Arranged | Arranged |
| PHAR_Y 546 A_002 | PHAR_Y 546 | A | A_002 | Master's Thesis | W2 | This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. | In Person Learning | Arranged | Arranged |
| PHAR_Y 546 A_003 | PHAR_Y 546 | A | A_003 | Master's Thesis | W1-2 | This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. | In Person Learning | Arranged | Arranged |
| PHAR_Y 546 B_001 | PHAR_Y 546 | B | B_001 | Master's Thesis | W1 | This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. | In Person Learning | Arranged | Arranged |
| PHAR_Y 546 B_002 | PHAR_Y 546 | B | B_002 | Master's Thesis | W2 | This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. | In Person Learning | Arranged | Arranged |
| PHAR_Y 546 B_003 | PHAR_Y 546 | B | B_003 | Master's Thesis | W1-2 | This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration. | In Person Learning | Arranged | Arranged |</p>
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<tr>
<th>Code</th>
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<th>Type</th>
<th>Credits</th>
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<td>General Pharmacy</td>
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<td>Pharmacy Management</td>
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<td>Advanced Pharmacy</td>
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<td>Clinical Pharmacy</td>
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<td>Industrial Pharmacy</td>
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<td>Veterinary Pharmacy</td>
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<td>Agricultural Pharmacy</td>
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<td>Environmental Pharmacy</td>
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<td>Emergency Pharmacy</td>
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<td>Community Pharmacy</td>
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<td>Spinal Surgery Pharmacy</td>
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<td>Orthopedic Pharmacy</td>
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<td>Otolaryngologic Pharmacy</td>
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<td>PHAR_V</td>
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<td>Neurologic Pharmacy</td>
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<tr>
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<td>Gastroenterologic Pharmacy</td>
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<td>PHAR_V</td>
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<td>Gynecologic Pharmacy</td>
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<td>PHAR_V</td>
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<td>Cardiovascular Surgery</td>
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<td>Cardiovascular Surgery Pharmacy</td>
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<td>Endocrine Surgery Pharmacy</td>
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<td>PHIL_V 101</td>
<td>001</td>
<td>In Person Learning</td>
<td>Introduction to Philosophy</td>
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<tr>
<td>PHIL_V 101</td>
<td>002</td>
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<td>Research in the Philosophical Sciences: Principles and Methods</td>
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<tr>
<td>PHIL_V 101</td>
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<td>In Person Learning</td>
<td>Scholarly Integrity and Research Ethics</td>
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<td>PHIL_V 101</td>
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<td>Seminar for Ph.D. Students</td>
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<td>PHIL_V 101</td>
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<td>Seminar for Ph.D. Students</td>
<td>Research in the Philosophical Sciences: Selected Topics</td>
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<tr>
<td>PHIL_V 101</td>
<td>006</td>
<td>Seminar for Ph.D. Students</td>
<td>Issues and Problems in Moral Philosophy</td>
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</tbody>
</table>

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

Basic problems and methods of philosophy. Topics such as the nature and scope of human knowledge, the relationship between mind and body, personal identity, free will, issues and problems in moral philosophy. Credit will be granted for only one of PHIL 100 or both PHIL 101 or PHIL 102.

Attendance at regular seminars throughout the session and presentation of one or more papers on selected topics. This course is not eligible for Credit/D/Fail grading.

Basic problems and methods of Philosophy. Topics such as the existence of God, the nature and scope of human knowledge, the relationship between mind and body, personal identity, free will, issues and problems in moral philosophy. Credit will be granted for only one of PHIL 100 or both PHIL 101 or PHIL 102.

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<th>Code</th>
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<td>PHIL_V 120-001</td>
<td>120</td>
<td></td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Multi-access Learning</td>
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<td>PHIL_V 120-002</td>
<td>120</td>
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<td>10:00 a.m. - 11:00 a.m.</td>
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<td>Multi-access Learning</td>
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<td>PHIL_V 120-003</td>
<td>120</td>
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<td>10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>PHIL_V 120-004</td>
<td>120</td>
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<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Multi-access Learning</td>
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</tbody>
</table>

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 101.
<p>| PHIL_V 120-001 | PHIL_V 120 | BRC | Introduction to Critical Thinking | W1 | Online Learning | Arranged | Arranged |
| PHIL_V 120-002 | PHIL_V 120 | BRC | Introduction to Critical Thinking | W1 | Online Learning | Arranged | Arranged |
| PHIL_V 120-003 | PHIL_V 120 | BRC | Introduction to Critical Thinking | W1 | Online Learning | Arranged | Arranged |
| PHIL_V 120-004 | PHIL_V 120 | BRC | Introduction to Critical Thinking | W1 | Online Learning | Arranged | Arranged |
| PHIL_V 120-005 | PHIL_V 120 | BRC | Introduction to Critical Thinking | W1 | Online Learning | Arranged | Arranged |
| PHIL_V 120-006 | PHIL_V 120 | BRC | Introduction to Critical Thinking | W1 | Online Learning | Arranged | Arranged |
| PHIL_V 120-007 | PHIL_V 120 | BRC | Introduction to Critical Thinking | W1 | Online Learning | Arranged | Arranged |
| PHIL_V 120-008 | PHIL_V 120 | BRC | Introduction to Critical Thinking | W1 | Online Learning | Arranged | Arranged |
| PHIL_V 120-009 | PHIL_V 120 | BRC | Introduction to Critical Thinking | W1 | Online Learning | Arranged | Arranged |
| PHIL_V 120-010 | PHIL_V 120 | BRC | Introduction to Critical Thinking | W1 | Online Learning | Arranged | Arranged |
| PHIL_V 120-011 | PHIL_V 120 | BRC | Introduction to Critical Thinking | W1 | Online Learning | Arranged | Arranged |
| PHIL_V 120-012 | PHIL_V 120 | BRC | Introduction to Critical Thinking | W1 | Online Learning | Arranged | Arranged |
| PHIL_V 230-104 | PHIL_V 210 | 104 | Introduction to Ethics | W1 | Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts. | In Person Learning | Fri | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 230-105 | PHIL_V 210 | 105 | Introduction to Ethics | W1 | Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts. | In Person Learning | Fri | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 230-106 | PHIL_V 210 | 106 | Introduction to Ethics | W1 | Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts. | In Person Learning | Fri | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 230-107 | PHIL_V 210 | 107 | Introduction to Ethics | W1 | Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts. | Multi-access Learning | Arranged | Arranged |
| PHIL_V 230-108 | PHIL_V 210 | 108 | Introduction to Ethics | W2 | Theories of obligation and value; moral reasoning; normative ethics, descriptive ethics and meta-ethics. Readings in classic and contemporary texts. | Multi-access Learning | Arranged | Arranged |
| PHIL_V 235-001 | PHIL_V 215 | 001 | Contemporary Moral Issues | W2 | Moral issues such as life and death decisions, paternities, markets, animal welfare, technology, and global justice. | In Person Learning | Tue Thu | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 235-002 | PHIL_V 215 | 002 | Contemporary Moral Issues | W1 | Moral issues such as life and death decisions, paternities, markets, animal welfare, technology, and global justice. | In Person Learning | Tue Thu | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 240-001 | PHIL_V 240 | 001 | Introduction to Epistemology | W1 | Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts. | In Person Learning | Tue Thu | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 240-002 | PHIL_V 240 | 002 | Introduction to Epistemology | W1 | Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts. | Online Learning | Tue Thu | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 240-003 | PHIL_V 240 | 003 | Introduction to Epistemology | W2 | Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts. | In Person Learning | Mon Wed | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 240-101 | PHIL_V 240 | 101 | Introduction to Epistemology | W2 | Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts. | In Person Learning | Fri | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 240-102 | PHIL_V 240 | 102 | Introduction to Epistemology | W2 | Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts. | In Person Learning | Fri | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 240-103 | PHIL_V 240 | 103 | Introduction to Epistemology | W2 | Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts. | In Person Learning | Fri | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 240-104 | PHIL_V 240 | 104 | Introduction to Epistemology | W2 | Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts. | In Person Learning | Fri | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 240-105 | PHIL_V 240 | 105 | Introduction to Epistemology | W1 | Topics in epistemology such as skepticism, truth, justification, a priori and a posteriori knowledge. Readings from classic and contemporary texts. | Multi-access Learning | Arranged | Arranged |
| PHIL_V 250-001 | PHIL_V 250 | 001 | Minds and Machines | W1 | Philosophical and theoretical issues that pertain to how mental phenomena fit into the material world. Examine questions such as whether a sophisticated enough computer should be deemed a conscious intelligent being. Focus on philosophical literature on consciousness, intelligence, animal minds and the mind-body relation. | In Person Learning | Tue Thu | 12:00 p.m. - 2:00 p.m. |
| PHIL_V 250-002 | PHIL_V 250 | 002 | Minds and Machines | W2 | Philosophical and theoretical issues that pertain to how mental phenomena fit into the material world. Examine questions such as whether a sophisticated enough computer should be deemed a conscious intelligent being. Focus on philosophical literature on consciousness, intelligence, animal minds and the mind-body relation. | In Person Learning | Mon Wed | 12:00 p.m. - 2:00 p.m. |
| PHIL_V 260-001 | PHIL_V 260 | 001 | Science and Society in the Contemporary World | W1 | A study of science's dialogue and its influence on subsequent philosophy. PHIL/CLST 211 or AMNE 215 and PHIL/CLST 212 or AMNE 216 are recommended. | In Person Learning | Tue Thu | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 260-101 | PHIL_V 260 | 101 | Science and Society in the Contemporary World | W1 | A study of science's dialogue and its influence on subsequent philosophy. Recommended pre-requisite: PHIL 210. | In Person Learning | Fri | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 260-102 | PHIL_V 260 | 102 | Science and Society in the Contemporary World | W1 | A study of science's dialogue and its influence on subsequent philosophy. Recommended pre-requisite: PHIL 210. | In Person Learning | Fri | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 260-103 | PHIL_V 260 | 103 | Science and Society in the Contemporary World | W1 | A study of science's dialogue and its influence on subsequent philosophy. Recommended pre-requisite: PHIL 210. | In Person Learning | Fri | 10:00 a.m. - 11:00 a.m. |
| PHIL_V 310-001 | PHIL_V 310 | 001 | The Philosophy of Plato | W1 | A study of Plato's dialogues and his influence on subsequent philosophy. PHIL/CLST 211 or AMNE 215 and PHIL/CLST 212 or AMNE 216 are recommended. | In Person Learning | Tue Thu | 10:00 a.m. - 11:00 a.m. |</p>
<table>
<thead>
<tr>
<th>Code</th>
<th>Section</th>
<th>Credit</th>
<th>Course Title</th>
<th>Mode</th>
<th>Fall Term</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>PHIL_V</td>
<td>313</td>
<td>001</td>
<td>Medieval Philosophy</td>
<td>PI</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>313</td>
<td>002</td>
<td>Medieval Philosophy</td>
<td>PI</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>314</td>
<td>001</td>
<td>Philosophy in the 17th Century</td>
<td>PI</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>314</td>
<td>002</td>
<td>Philosophy in the 17th Century</td>
<td>PI</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>315</td>
<td>001</td>
<td>Philosophy in the 18th Century</td>
<td>PI</td>
<td>10:00 a.m. - 11:30 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>315</td>
<td>002</td>
<td>Philosophy in the 18th Century</td>
<td>PI</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHIL_V</td>
<td>316</td>
<td>001</td>
<td>Philosophy After 1800</td>
<td>PI</td>
<td>10:00 a.m. - 11:30 a.m.</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHIL_V</td>
<td>316</td>
<td>002</td>
<td>Philosophy After 1800</td>
<td>PI</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>320</td>
<td>001</td>
<td>Logic: Metatheory and Computability</td>
<td>PI</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>321</td>
<td>001</td>
<td>Induction, Decision and Game Theory</td>
<td>PI</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>321</td>
<td>002</td>
<td>Induction, Decision and Game Theory</td>
<td>PI</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>324</td>
<td>001</td>
<td>Philosophy of Logic</td>
<td>PI</td>
<td>10:00 a.m. - 11:30 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>326</td>
<td>001</td>
<td>Philosophy of Language I</td>
<td>PI</td>
<td>10:00 a.m. - 11:30 a.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>326</td>
<td>002</td>
<td>Philosophy of Language I</td>
<td>PI</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>330</td>
<td>001</td>
<td>Social and Political Philosophy</td>
<td>PI</td>
<td>10:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>330</td>
<td>002</td>
<td>Social and Political Philosophy</td>
<td>PI</td>
<td>10:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>331</td>
<td>001</td>
<td>Business and Professional Ethics</td>
<td>PI</td>
<td>10:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>331</td>
<td>002</td>
<td>Business and Professional Ethics</td>
<td>PI</td>
<td>10:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>331</td>
<td>003</td>
<td>Business and Professional Ethics</td>
<td>PI</td>
<td>10:00 a.m. - 12:30 p.m.</td>
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<td>PHIL_V</td>
<td>331</td>
<td>004</td>
<td>Business and Professional Ethics</td>
<td>PI</td>
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<td>PHIL_V</td>
<td>331</td>
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<td>PHIL_V</td>
<td>331</td>
<td>006</td>
<td>Business and Professional Ethics</td>
<td>PI</td>
<td>10:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>332</td>
<td>001</td>
<td>Environmental Ethics</td>
<td>PI</td>
<td>10:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>PHIL_V</td>
<td>332</td>
<td>002</td>
<td>Environmental Ethics</td>
<td>PI</td>
<td>10:00 a.m. - 12:30 p.m.</td>
<td>In Person Learning</td>
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</tbody>
</table>

The course descriptions and prerequisite information for each course are available in the document.
In Person Learning
W2 335
333
Bio-Medical Ethics

Online Learning

Hybrid Learning

Ethics for the Sciences
Philosophy of Religion
Philosophy of Law

Philosophical exploration of ethical issues in the non-medical sciences, including topics such as intellectual integrity, responsible conduct of research, protection of human subjects, ethics of animal experimentation, and the social responsibilities of scientists. Credit will be granted for only one of PHIL 333 or PHIL 337.

Bio-Medical Ethics

Philosophical approaches to historical problems of inequality and social harm, with readings drawn from historical and contemporary sources. Topics to be studied may include slavery, colonialism, labour, and the position of women in society.

Philosophical approaches to historical problems of equality and social harm, with readings drawn from historical and contemporary sources. Topics to be studied may include slavery, colonialism, labour, and the position of women in society.

Topics include abortion, death and euthanasia, genetic engineering, behaviour modification, compulsory treatment, experimentation with human beings and animals, and the relationship between professionals and their patients, subjects or clients. No philosophical background is required.

A critical and analytical examination of arguments for and arguments against the existence of God and other related topics.

Introductions to Continental Philosophy

A critical and analytical examination of arguments for and arguments against the existence of God and other related topics.

Arranged

A critical and analytical examination of arguments for and arguments against the existence of God and other related topics.

Moral problems arising in the health sciences, especially in medicine but also in biology, psychology, and social work. Topics include abortion, death and euthanasia, genetic engineering, behaviour modification, compulsory treatment, experimentation with human beings and animals, and the relationship between professionals and their patients, subjects or clients. No philosophical background is required.

In Person Learning
Thu Thu
3:30 p.m. - 5:00 p.m.

In Person Learning
Mon Wed Fri
9:30 a.m. - 11:00 a.m.

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

In Person Learning
Mon Wed Fri
11:00 a.m. - 12:30 p.m.

In Person Learning
Mon Wed Fri
3:00 p.m. - 4:30 p.m.

In Person Learning
Thu Thu
3:00 p.m. - 4:30 p.m.

In Person Learning
W2 2:00 p.m. - 3:00 p.m.

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

In Person Learning
Wed
6:00 p.m. - 7:00 p.m.

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

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

In Person Learning
Mon Wed Fri
9:30 a.m. - 11:00 a.m.

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

In Person Learning
Mon Wed Fri
3:30 p.m. - 5:00 p.m.

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

In Person Learning
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9:30 a.m. - 11:00 a.m.

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In Person Learning
Mon Wed Fri
3:30 p.m. - 5:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>PHIL_V 360-001</td>
<td>360</td>
<td>Introduction to History and Philosophy of Science</td>
<td>An examination of historical, conceptual and methodological conditions of scientific knowledge through detailed consideration of important episodes in the history of science. Credit will be granted for one of PHIL 360 or HIST 383. Equivalency: HIST 383. In Person Learning Tue Thu 12:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 362-A_001</td>
<td>362</td>
<td>History and Philosophy of Economics from Aristotle to Adam Smith</td>
<td>The development of economic thought from Aristotle to Adam Smith, focusing primarily on the conceptual foundations of economics, particularly the problems of value, distribution and economic growth. Credit will be granted for one of PHIL 362 or ECON 318. Equivalency: ECON 318. In Person Learning Mon Wed Fri 12:30 p.m. - 1:30 p.m.</td>
</tr>
<tr>
<td>PHIL_V 364-001</td>
<td>364</td>
<td>Existentialism</td>
<td>Meaning, identity and alienation as explored in the works of Sartre, Dostoevsky, Tolstoy, Sartre, and Camus. In Person Learning Wed 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 365-001</td>
<td>365</td>
<td>Philosophy of Science</td>
<td>Issues common to all sciences. Philosophical questions including the character of scientific laws, theories and revolutions, the nature of scientific confirmation, causality, explanation and prediction, and the use of logic and probability. Difficulties in the interpretation of atomic physics and questions about relationships between biology and psychology. No philosophical background is assumed. In Person Learning Mon Wed Fri 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 367</td>
<td>371</td>
<td>Foundations of Chinese Thought</td>
<td>Early Chinese thought (Confucianism, Daoism, Mohism, Legalism). In contemporary implications, and the role of philosophy and religion in human flourishing. Credit will only be granted for one of PHIL 371 or ASIA 371. Equivalency: ASIA 371. In Person Learning Thu 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 370</td>
<td>370</td>
<td>Philosophy of Science</td>
<td>The development of economic thought from Aristotle to Adam Smith, focusing primarily on the conceptual foundations of economics, particularly the problems of value, distribution and economic growth. Credit will be granted for one of PHIL 370 or ASIA 370. Equivalency: ASIA 370. Online Learning Fri 1:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 371</td>
<td>371</td>
<td>Philosophy of Science</td>
<td>The development of economic thought from Aristotle to Adam Smith, focusing primarily on the conceptual foundations of economics, particularly the problems of value, distribution and economic growth. Credit will be granted for one of PHIL 371 or ASIA 371. Equivalency: ASIA 371. In Person Learning Mon Wed Fri 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 372</td>
<td>372</td>
<td>Philosophy of Science</td>
<td>The development of economic thought from Aristotle to Adam Smith, focusing primarily on the conceptual foundations of economics, particularly the problems of value, distribution and economic growth. Credit will be granted for one of PHIL 372 or ASIA 372. Equivalency: ASIA 372. In Person Learning Mon Wed Fri 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 375</td>
<td>375</td>
<td>Philosophy of Science</td>
<td>The development of economic thought from Aristotle to Adam Smith, focusing primarily on the conceptual foundations of economics, particularly the problems of value, distribution and economic growth. Credit will be granted for one of PHIL 375 or ASIA 375. Equivalency: ASIA 375. In Person Learning Mon Wed Fri 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 378</td>
<td>378</td>
<td>Philosophy of Science</td>
<td>The development of economic thought from Aristotle to Adam Smith, focusing primarily on the conceptual foundations of economics, particularly the problems of value, distribution and economic growth. Credit will be granted for one of PHIL 378 or ASIA 378. Equivalency: ASIA 378. In Person Learning Mon Wed Fri 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 381</td>
<td>381</td>
<td>Philosophy of Science</td>
<td>The development of economic thought from Aristotle to Adam Smith, focusing primarily on the conceptual foundations of economics, particularly the problems of value, distribution and economic growth. Credit will be granted for one of PHIL 381 or ASIA 381. Equivalency: ASIA 381. In Person Learning Mon Wed Fri 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 384</td>
<td>384</td>
<td>Philosophy of Science</td>
<td>The development of economic thought from Aristotle to Adam Smith, focusing primarily on the conceptual foundations of economics, particularly the problems of value, distribution and economic growth. Credit will be granted for one of PHIL 384 or ASIA 384. Equivalency: ASIA 384. In Person Learning Mon Wed Fri 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 385</td>
<td>385</td>
<td>Philosophy of Science</td>
<td>The development of economic thought from Aristotle to Adam Smith, focusing primarily on the conceptual foundations of economics, particularly the problems of value, distribution and economic growth. Credit will be granted for one of PHIL 385 or ASIA 385. Equivalency: ASIA 385. In Person Learning Mon Wed Fri 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 386</td>
<td>386</td>
<td>Philosophy of Science</td>
<td>The development of economic thought from Aristotle to Adam Smith, focusing primarily on the conceptual foundations of economics, particularly the problems of value, distribution and economic growth. Credit will be granted for one of PHIL 386 or ASIA 386. Equivalency: ASIA 386. In Person Learning Mon Wed Fri 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 387</td>
<td>387</td>
<td>Philosophy of Science</td>
<td>The development of economic thought from Aristotle to Adam Smith, focusing primarily on the conceptual foundations of economics, particularly the problems of value, distribution and economic growth. Credit will be granted for one of PHIL 387 or ASIA 387. Equivalency: ASIA 387. In Person Learning Mon Wed Fri 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 390</td>
<td>390</td>
<td>Philosophy of Science</td>
<td>The development of economic thought from Aristotle to Adam Smith, focusing primarily on the conceptual foundations of economics, particularly the problems of value, distribution and economic growth. Credit will be granted for one of PHIL 390 or ASIA 390. Equivalency: ASIA 390. In Person Learning Mon Wed Fri 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 391</td>
<td>391</td>
<td>Philosophy of Science</td>
<td>The development of economic thought from Aristotle to Adam Smith, focusing primarily on the conceptual foundations of economics, particularly the problems of value, distribution and economic growth. Credit will be granted for one of PHIL 391 or ASIA 391. Equivalency: ASIA 391. In Person Learning Mon Wed Fri 12:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PHIL_V 392</td>
<td>392</td>
<td>Philosophy of Science</td>
<td>The development of economic thought from Aristotle to Adam Smith, focusing primarily on the conceptual foundations of economics, particularly the problems of value, distribution and economic growth. Credit will be granted for one of PHIL 392 or ASIA 392. Equivalency: ASIA 392. In Person Learning Mon Wed Fri 12:00 p.m. - 3:00 p.m.</td>
</tr>
</tbody>
</table>
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 222, PHIL 320. Credit will be granted for only one of PHIL 470 or ASIA 470. Equivalency: ASIA 470.

For students in fourth-year Honours. The credit value for this course will be determined in consultation with the student prior to the registration.

**Topics in the Philosophy of Cognitive Science**

Topics such as probability and induction; foundations of measurement; theory construction. Recommended pre-requisite: PHIL 360. For students in fourth-year Honours. The credit value for this course will be determined in consultation with the student prior to the registration.

**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, Xunzi (Hsn-tzu), Nietzsche, and Zhuangzi (Chuang-tzu). Credit will be granted for only one of PHIL 470 or ASIA 470. Equivalency: ASIA 470.

Ways in which the "self" has been portrayed in eastern and western religious traditions. Thinkers to be considered include Aristotle, Mencius, Freud, Xunzi (Hsn-tzu), Nietzsche, and Zhuangzi (Chuang-tzu). Credit will be granted for only one of PHIL 470 or ASIA 470. Equivalency: ASIA 470.

**Philosophy of Mind**

Credit will be granted for only one of PHIL 485 or COGS 200. Prerequisite: One of PHIL 240, PHIL 255, or any 6 credits of Philosophy at the 200-level or above (except PHIL 220, PHIL 234, PHIL 320, PHIL 431).

The nature of the mental and physical; the relation between minds and bodies; the character of psychological explorations. Recommended pre-requisites: Either (a) PHIL 240 or (b) COGS 222. Credit will be granted for only one of PHIL 485 or ASIA 485. Equivalency: ASIA 485.

**Philosophy of Social Science**

Methodological, historical, philosophical and social science questions about biology. Prerequisite: Fourth-year standing in any degree program or 9 credits of philosophy.

**Topics in Continental Philosophy**

A study of European philosophers from amongst Husserl, Heidegger, Habermas, Foucault, Derrida, Lacan, Levinas, and others.

**Directed Reading**

Same as PHIL 486-9.

**Political Philosophy**

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

**Philosophy of Perception**

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

**Philosophy of Mind**

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

**Philosophy of Social Science**

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

**Philosophy of Biology**

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

**Honours Tutorial**

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

**Moral Philosophy**

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

**Metaphysics**

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

**Philosophy of Mind**

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

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

**Philosophy of Mind**

This course is not eligible for Credit/D/Fail grading.
PHRM_V 211-010  PHRM_V 131-001  Study Design and Interpretation I
Medication Management I
W2  Principles of clinical study design, focusing on biostatistical foundations, randomized controlled trials, and systematic review of randomized controlled trials. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 100.
In Person Learning  Tue/Thu  2:00 p.m. - 3:30 p.m.

PHRM_V 211-011  PHRM_V 141-001  Seminar: Pharmacists in Practice I
Medication Management II
W1  Current and future roles for pharmacists and controversies in pharmacy practice. This course is not eligible for Credit/D/Fail grading.
In Person Learning  Mon  1:00 p.m. - 2:00 p.m.

PHRM_V 211-012  PHRM_V 161-001  Technology in Healthcare
Medication Management II
W1  Knowledge and skills related to the role and applications of technology in health care. This course is not eligible for Credit/D/Fail grading.
In Person Learning  Fri  1:00 p.m. - 2:00 p.m.

PHRM_V 212-011  PHRM_V 211-010  Medication Management II
W1  Modules and integration activities focusing on nephrology and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.
In Person Learning  Thu  2:00 p.m. - 3:30 p.m.

PHRM_V 212-012  PHRM_V 211-011  Medication Management II
W1  Modules and integration activities focusing on nephrology and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.
In Person Learning  Thu  2:00 p.m. - 3:30 p.m.

PHRM_V 212-013  PHRM_V 211-012  Medication Management II
W1  Modules and integration activities focusing on nephrology and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.
In Person Learning  Thu  2:00 p.m. - 3:30 p.m.

PHRM_V 212-014  PHRM_V 211-013  Medication Management II
W1  Modules and integration activities focusing on nephrology and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.
In Person Learning  Thu  2:00 p.m. - 3:30 p.m.

PHRM_V 212-015  PHRM_V 211-014  Medication Management II
W1  Modules and integration activities focusing on nephrology and cardiovascular disorders. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.
In Person Learning  Thu  2:00 p.m. - 3:30 p.m.

PHRM_V 212-016  PHRM_V 211-015  Medication Management II
W1  Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.
In Person Learning  Thu  2:00 p.m. - 3:30 p.m.

PHRM_V 212-017  PHRM_V 211-016  Medication Management II
W1  Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.
In Person Learning  Thu  2:00 p.m. - 3:30 p.m.

PHRM_V 212-018  PHRM_V 211-017  Medication Management II
W1  Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.
In Person Learning  Thu  2:00 p.m. - 3:30 p.m.

PHRM_V 212-019  PHRM_V 211-018  Medication Management II
W1  Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.
In Person Learning  Thu  2:00 p.m. - 3:30 p.m.

PHRM_V 212-020  PHRM_V 211-019  Medication Management II
W1  Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.
In Person Learning  Thu  2:00 p.m. - 3:30 p.m.

PHRM_V 212-021  PHRM_V 211-020  Medication Management II
W1  Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.
In Person Learning  Thu  2:00 p.m. - 3:30 p.m.

PHRM_V 212-022  PHRM_V 211-021  Medication Management II
W1  Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.
In Person Learning  Thu  2:00 p.m. - 3:30 p.m.

PHRM_V 212-023  PHRM_V 211-022  Medication Management II
W1  Modules and integration activities focusing on nephrology, endocrinology, and neurology. This course is not eligible for Credit/D/Fail grading. Corequisite: PHRM 211.
In Person Learning  Thu  2:00 p.m. - 3:30 p.m.

PHRM_V 222-001  PHRM_V 231-001  Nutrition for Pharmacists
Nutrition for Pharmacists
W2  Foundations of nutrition, nutrition for healthy individuals through the lifespan, and selected clinical applications of nutrition in pharmacy practice. Prerequisite: PHRM 171.
In Person Learning  Wed  10:00 a.m. - 12:00 p.m.

PHRM_V 231-001  PHRM_V 241-001  Study Design and Interpretation II
 Seniors: Pharmacists in Practice II
W1  Principles of screening and diagnostic tests, clinical prediction rules, clinical practice guidelines, conflicts of interest, economic evaluation of therapeutics and medical technologies, harm-benefit analysis, and how to incorporate the best available evidence into practice. This course is not eligible for Credit/D/Fail grading.
In Person Learning  Wed  10:00 a.m. - 12:00 p.m.

PHRM_V 241-001  PHRM_V 251-001  Seminar: Pharmacists in Practice II
Institutional Practice Skills
W2  Preparation for experiential learning in the hospital setting. Focuses on enhancing familiarity with the care environment and developing skills suited for students to apply to patient care during institutional experiential rotations. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 171.
In Person Learning  Wed (Alternate weeks)  8:00 a.m. - 10:00 a.m.

PHRM_V 252-001  PHRM_V 262-001  Clinical Skills: Administration of Injections
Institutional Practice Skills
W1  Training for authorization to administer injections. Pass/Fail. This course is not eligible for Credit/D/Fail grading.
In Person Learning  Tue  8:00 a.m. - 10:00 a.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Format</th>
<th>Days</th>
<th>Start Time</th>
<th>End Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHRM_V 252</td>
<td>Clinical Skills: Administration of Injections</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>8:00 a.m.</td>
<td>12:00 p.m.</td>
</tr>
<tr>
<td>PHRM_V 261</td>
<td>Indigenous Health and Cultural Safety</td>
<td>Arranged</td>
<td>Mon</td>
<td>12:00 p.m.</td>
<td>3:00 p.m.</td>
</tr>
<tr>
<td>PHRM_V 270</td>
<td>Community Service Learning II</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>2:00 p.m.</td>
<td>5:10 p.m.</td>
</tr>
<tr>
<td>PHRM_V 304</td>
<td>Community Service Learning II</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>9:00 a.m.</td>
<td>12:00 p.m.</td>
</tr>
<tr>
<td>PHRM_V 300</td>
<td>Special Topics</td>
<td>In Person Learning</td>
<td>W1</td>
<td>12:30 p.m.</td>
<td>2:00 p.m.</td>
</tr>
<tr>
<td>PHRM_V 304</td>
<td>Directed Studies in Clinical Pharmacy</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>9:00 a.m.</td>
<td>12:00 p.m.</td>
</tr>
</tbody>
</table>

The credit value for this course will be determined in consultation with the student prior to registration.

Individual assignments involving library and clinical investigation of specific problems relating to drug utilization and information topics.

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Individual assignments involving library and clinical investigation of specific problems relating to drug utilization and information topics.

The credit value for this course will be determined in consultation with the student prior to registration.

Individual assignments involving library and scholarly inquiry related to pharmacy education.

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<th>Course Code</th>
<th>Course Title</th>
<th>Module</th>
<th>Credit/D/Fail grading</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHRM-V 306 B_001</td>
<td>Directed Studies in Pharmacy Practice</td>
<td>W1-2</td>
<td>Individual assignments involving library and field work investigations of problems associated with pharmacy practice. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>PHRM-V 306 B_002</td>
<td>Directed Studies in Pharmacy Practice</td>
<td>W1-2</td>
<td>Individual assignments involving library and field work investigations of problems associated with pharmacy practice. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>PHRM-V 307 B_001</td>
<td>Directed Studies in Epidemiology and Health Outcomes</td>
<td>W1</td>
<td>Individual assignments involving scholarly inquiry related to epidemiology, or health outcomes. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>PHRM-V 307 B_002</td>
<td>Directed Studies in Epidemiology and Health Outcomes</td>
<td>W1</td>
<td>Individual assignments involving scholarly inquiry related to epidemiology, or health outcomes. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>PHRM-V 307 B_003</td>
<td>Directed Studies in Epidemiology and Health Outcomes</td>
<td>W1</td>
<td>Individual assignments involving scholarly inquiry related to epidemiology, or health outcomes. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>PHRM-V 311-001</td>
<td>Medication Management IV</td>
<td>W1</td>
<td>Modules and integration activities focusing on pharmacy, gastroenterology disorders; and oncology and palliative care. Prerequisite: All of PHRM-271, PHRM-272.</td>
<td>In Person Learning Thu 9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>PHRM-V 311-001</td>
<td>Medication Management IV</td>
<td>W1</td>
<td>Modules and integration activities focusing on pharmacy, gastroenterology disorders; and oncology and palliative care. Prerequisite: All of PHRM-271, PHRM-272.</td>
<td>In Person Learning Mon 2:00 p.m. - 5:10 p.m.</td>
</tr>
<tr>
<td>PHRM-V 311-002</td>
<td>Medication Management IV</td>
<td>W1</td>
<td>Modules and integration activities focusing on pharmacy, gastroenterology disorders; and oncology and palliative care. Prerequisite: All of PHRM-271, PHRM-272.</td>
<td>In Person Learning Mon 2:00 p.m. - 5:10 p.m.</td>
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<td>In Person Learning Mon 2:00 p.m. - 5:10 p.m.</td>
</tr>
<tr>
<td>PHRM-V 311-004</td>
<td>Medication Management IV</td>
<td>W1</td>
<td>Modules and integration activities focusing on pharmacy, gastroenterology disorders; and oncology and palliative care. Prerequisite: All of PHRM-271, PHRM-272.</td>
<td>In Person Learning Mon 2:00 p.m. - 5:10 p.m.</td>
</tr>
<tr>
<td>PHRM-V 311-005</td>
<td>Medication Management IV</td>
<td>W1</td>
<td>Modules and integration activities focusing on pharmacy, gastroenterology disorders; and oncology and palliative care. Prerequisite: All of PHRM-271, PHRM-272.</td>
<td>In Person Learning Mon 2:00 p.m. - 5:10 p.m.</td>
</tr>
<tr>
<td>PHRM-V 311-006</td>
<td>Medication Management IV</td>
<td>W1</td>
<td>Modules and integration activities focusing on pharmacy, gastroenterology disorders; and oncology and palliative care. Prerequisite: All of PHRM-271, PHRM-272.</td>
<td>In Person Learning Mon 2:00 p.m. - 5:10 p.m.</td>
</tr>
<tr>
<td>PHRM-V 312-001</td>
<td>Medication Management V</td>
<td>W2</td>
<td>Modules and integration activities focusing on reproductive health, sexual health, and genitourinary disorders; special infectious diseases; and toxicology. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PHRM-271, PHRM-272.</td>
<td>In Person Learning Thu 2:00 p.m. - 5:10 p.m.</td>
</tr>
<tr>
<td>PHRM-V 312-001</td>
<td>Medication Management V</td>
<td>W2</td>
<td>Modules and integration activities focusing on reproductive health, sexual health, and genitourinary disorders; special infectious diseases; and toxicology. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PHRM-271, PHRM-272.</td>
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<td>PHRM-V 312-003</td>
<td>Medication Management V</td>
<td>W2</td>
<td>Modules and integration activities focusing on reproductive health, sexual health, and genitourinary disorders; special infectious diseases; and toxicology. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PHRM-271, PHRM-272.</td>
<td>In Person Learning Mon 2:00 p.m. - 5:10 p.m.</td>
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<tr>
<td>PHRM-V 312-004</td>
<td>Medication Management V</td>
<td>W2</td>
<td>Modules and integration activities focusing on reproductive health, sexual health, and genitourinary disorders; special infectious diseases; and toxicology. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PHRM-271, PHRM-272.</td>
<td>In Person Learning Mon 2:00 p.m. - 5:10 p.m.</td>
</tr>
<tr>
<td>PHRM-V 312-005</td>
<td>Medication Management V</td>
<td>W2</td>
<td>Modules and integration activities focusing on reproductive health, sexual health, and genitourinary disorders; special infectious diseases; and toxicology. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PHRM-271, PHRM-272.</td>
<td>In Person Learning Mon 2:00 p.m. - 5:10 p.m.</td>
</tr>
<tr>
<td>PHRM-V 312-006</td>
<td>Medication Management V</td>
<td>W2</td>
<td>Modules and integration activities focusing on reproductive health, sexual health, and genitourinary disorders; special infectious diseases; and toxicology. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of PHRM-271, PHRM-272.</td>
<td>In Person Learning Mon 2:00 p.m. - 5:10 p.m.</td>
</tr>
<tr>
<td>PHRM-V 322-001</td>
<td>Peer Teaching in Pharmacy Skills</td>
<td>W1-2</td>
<td>Development and delivery of patient counseling role-playing activities. In Person Learning Arranged Arranged</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>PHRM-V 323-001</td>
<td>Pharmaceutical Care in Indigenous Health</td>
<td>W2</td>
<td>Indigenous health in Canada and the role pharmacists' cultural humility and safety can play when collaborating with other health professionals and Indigenous communities to provide care and healing. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning Wed 9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>PHRM-V 324-001</td>
<td>Primary Care Pharmacy Practice</td>
<td>W1</td>
<td>Strategies for leveraging opportunities and addressing barriers to effective pharmacist integration into multidisciplinary primary care teams and optimizing patient care. Co-requisite: PHRM 311.</td>
<td>In Person Learning Fri 9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>PHRM-V 325-001</td>
<td>Clinical Pharmacokinetics</td>
<td>W1</td>
<td>Lectures and discussions of topics on the application of pharmacokinetic principles and the use of therapeutic drug level monitoring in clinical pharmacy practice. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning Wed 9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Credits</td>
<td>Term</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
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</tr>
<tr>
<td>PHRM 226-001</td>
<td>Renal Pharmacotherapeutics</td>
<td>2</td>
<td>W1</td>
<td>Case-based approach to the pathophysiology, pharmacology, clinical pharmacokinetics, and pharmacotherapy. Emphasis on the integration and application of fundamental principles to clinical situations in renal patients. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.</td>
</tr>
<tr>
<td>PHRM 227-001</td>
<td>Toxicology and Preclinical Medicine</td>
<td>2</td>
<td>W1-2</td>
<td>Basic principles of toxicology and toxicokinetics. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 226-001.</td>
</tr>
<tr>
<td>PHRM 228-001</td>
<td>Pharmacology of Drugs of Misuse and Abuse</td>
<td>2</td>
<td>W1</td>
<td>Pharmacological, pharmacokinetic, and psychological aspects of drugs of misuse and abuse. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 226-001.</td>
</tr>
<tr>
<td>PHRM 329-001</td>
<td>Leadership Experience Applied to Pharmacy (LEAP)</td>
<td>2</td>
<td>W1-2</td>
<td>Leadership skills in preparation for the practice of pharmacy in direct or non-direct patient care settings and contexts. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing and a combined grade average of 70% in PHRM 211 and PHRM 212.</td>
</tr>
<tr>
<td>PHRM 330-001</td>
<td>Pharmacy Practice in Acute and Critically Ill Patients</td>
<td>2</td>
<td>W2</td>
<td>Pharmacological care concepts for managing acute and critically ill patients. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.</td>
</tr>
<tr>
<td>PHRM 332-001</td>
<td>Practical Applications of Pharmacoepidemiology &amp; Health Economics</td>
<td>2</td>
<td>W2</td>
<td>Principles and methods of collecting epidemiological and economic evidence used to assess the value of pharmaceuticals and services provided by pharmacists. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>PHRM 333-001</td>
<td>Pharmacotherapy in Oncology</td>
<td>2</td>
<td>W2</td>
<td>Common oncological diseases and their drug treatment. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>PHRM 340-001</td>
<td>Pre-Healthcare Leadership</td>
<td>2</td>
<td>W2</td>
<td>Basic mechanisms and the clinical management of acute and chronic pain. This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.</td>
</tr>
<tr>
<td>PHRM 341-001</td>
<td>Seminar: Pharmacists in Practice III</td>
<td>2</td>
<td>W2</td>
<td>Seminar course about current and potential roles for pharmacists. Students will also deliver an individual and a group seminar. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.</td>
</tr>
<tr>
<td>PHRM 346-001</td>
<td>Diabetes</td>
<td>2</td>
<td>W2</td>
<td>Current issues in diabetes from pathophysiology to patient care, with a focus on healthcare quality improvement, patient safety, and optimizing outcomes. Prerequisite: Third-year standing. Equivalency: PHAR 546.</td>
</tr>
<tr>
<td>PHRM 351-001</td>
<td>Practice Management and Leadership</td>
<td>1</td>
<td>W1</td>
<td>Application of management and leadership principles and skills to pharmacy practice. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 271, PHRM 272.</td>
</tr>
<tr>
<td>PHRM 441-001</td>
<td>Seminar: Advanced Topics in Pharmacy Practice</td>
<td>1</td>
<td>W1</td>
<td>Pharmacists in practice, emerging pharmacy practice issues and pharmacists as preceptors. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.</td>
</tr>
<tr>
<td>PHRM 450-001</td>
<td>PharmD Seminar</td>
<td>1</td>
<td>W1</td>
<td>Seminar course about current and potential roles for pharmacists. Students will also deliver an individual and a group seminar. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.</td>
</tr>
<tr>
<td>PHRM 451-001</td>
<td>Critical Appraisal of Pharmacoepidemiology Literature</td>
<td>1</td>
<td>W2</td>
<td>Principles of clinical study design, focusing on randomized controlled trials, systematic reviews, epidemiologic studies (cohort, case-control), pharmaco-economic analyses, clinical prediction rules, and guidelines. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>PHRM 452-001</td>
<td>Patient Assessment Skills</td>
<td>1</td>
<td>W2</td>
<td>Principles and practices of patient assessment, applied to the monitoring of drug efficacy and toxicity. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>PHRM 453-P11</td>
<td>Applied Pharmacometrics and Pharmacoepidemiology</td>
<td>1</td>
<td>W1</td>
<td>Pharmacometric measurement of drug therapy in common clinical situations. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>PHRM 453-P12</td>
<td>Applied Pharmacometrics and Pharmacoepidemiology</td>
<td>1</td>
<td>W2</td>
<td>Pharmacometric measurement of drug therapy in common clinical situations. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>PHRM 454-001</td>
<td>Practice Management</td>
<td>1</td>
<td>W2</td>
<td>Values, concepts, issues and responsibilities of individuals exercising leadership and management roles in pharmacy practice and health care settings. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>PHRM 462-001</td>
<td>Pharmacoepidemiology 2</td>
<td>1-2</td>
<td>W1-2</td>
<td>Pharmaceutical care concepts for managing acute and critically ill patients. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 461.</td>
</tr>
<tr>
<td>PHRM 462-002</td>
<td>Pharmacoepidemiology 2</td>
<td>1-2</td>
<td>W2</td>
<td>Pharmaceutical care concepts for managing acute and critically ill patients. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 461.</td>
</tr>
<tr>
<td>PHRM 463-001</td>
<td>Pharmacotherapeutics 3</td>
<td>1</td>
<td>W1</td>
<td>Cardiovascular disorders. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 461.</td>
</tr>
<tr>
<td>PHRM 464-001</td>
<td>Pharmacotherapeutics 4</td>
<td>1</td>
<td>W1</td>
<td>Infections diseases. Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 461.</td>
</tr>
</tbody>
</table>
Selected Advanced Pharmacy Practice Experience

1. **Pharmacotherapeutics 9**
   - **In Person Learning**
   - W2
   - Arranged

2. **Pharmacotherapeutics 8**
   - **Outpatient Advanced Pharmacy Practice Experience**
   - W1
   - Arranged

3. **Pharmacotherapeutics 7**
   - **In Patient and Health Authority-Based Advanced Pharmacy Practice Experience**
   - W1
   - Arranged

4. **Pharmacotherapeutics 6**
   - **Selected Advanced Pharmacy Practice Experience**
   - W1
   - Arranged

5. **Pharmacotherapeutics 5**
   - **Outpatient Advanced Pharmacy Practice Experience**
   - W1
   - Arranged

6. **Pharmacotherapeutics 4**
   - **In Patient and Health Authority-Based Advanced Pharmacy Practice Experience**
   - W1
   - Arranged

7. **Pharmacotherapeutics 3**
   - **In Person Learning**
   - W1
   - Arranged

8. **Pharmacotherapeutics 2**
   - **Selected Advanced Pharmacy Practice Experience**
   - W1
   - Arranged

9. **Pharmacotherapeutics 1**
   - **Outpatient Advanced Pharmacy Practice Experience**
   - W1
   - Arranged

10. **In Patient and Health Authority-Based Advanced Pharmacy Practice Experience**
    - In Person Learning
    - W1
    - Arranged

11. **In Person Learning**
    - W1
    - Arranged

12. **In Person Learning**
    - W1
    - Arranged

13. **In Person Learning**
    - W1
    - Arranged

14. **In Person Learning**
    - W1
    - Arranged

15. **In Person Learning**
    - W1
    - Arranged

16. **In Person Learning**
    - W1
    - Arranged

17. **In Person Learning**
    - W1
    - Arranged

18. **In Person Learning**
    - W1
    - Arranged

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.

Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in inpatient and/or health authority-based settings. Patient care will be provided for a wide range of therapeutic areas.

Pass/Fail. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHRM 371.
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.

Advanced Pharmacy Practice Experience - Outpatient

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.

Healthcare Quality Improvement

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: PHRM 451, PHRM 452, PHRM 453, PHRM 461.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Type</th>
<th>Delivery</th>
<th>Grading</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHRM_V 491-PL1</td>
<td>Advanced Pharmacy Practice Experience - Outpatient</td>
<td>W1</td>
<td>Online Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>PHRM_V 491-PL2</td>
<td>Advanced Pharmacy Practice Experience - Outpatient</td>
<td>W2</td>
<td>Online Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>PHRM_V 492-PL1</td>
<td>Advanced Pharmacy Practice Experience - Inpatient and Health Authority-Based</td>
<td>W1</td>
<td>Online Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>PHRM_V 492-PL2</td>
<td>Advanced Pharmacy Practice Experience - Inpatient and Health Authority-Based</td>
<td>W2</td>
<td>Online Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>PHRM_V 493-PL1</td>
<td>Advanced Pharmacy Practice Experience - Specialized Outpatient</td>
<td>W1</td>
<td>Online Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>PHRM_V 493-PL2</td>
<td>Advanced Pharmacy Practice Experience - Specialized Outpatient</td>
<td>W2</td>
<td>Online Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
</tbody>
</table>

- 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.

- Application of integrated problem-solving skills to resolve increasingly complex drug-therapy problems in a variety of specialized outpatient settings. 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.

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.
Comprehensive Examination

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.

Leadership and Organizational Behaviour

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

Clinical Practice I

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.

Clinical Practice II

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.

Clinical Decision-Making I

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

Clinical Decision-Making II

This course is not eligible for Credit/D/Fail grading. In Person Learning Fri 8:00 a.m. - 11:00 a.m.

Evidence-Informed Decision-Making in Healthcare

This course is not eligible for Credit/D/Fail grading. Prerequisite: All of PHRM 451, PHRM 452, PHRM 453, PHRM 461.

Exercise and Movement I

In Person Learning W1 8:00 a.m. - 11:00 a.m.

Exercise and Movement II

In Person Learning W2 8:00 a.m. - 11:00 a.m.

Exercise and Movement III

In Person Learning W2 12:00 p.m. - 3:00 p.m.

Patient Care

Advanced Pharmacy Practice Experience - Selected Direct Patient Care or Non-Direct Patient Care

Online Learning Arranged Arranged

Pathology for Physical Therapy I

This course is not eligible for Credit/D/Fail grading. In Person Learning Mon 8:00 a.m. - 1:00 p.m.

Pathology for Physical Therapy II

This course is not eligible for Credit/D/Fail grading. In Person Learning Fri 8:00 a.m. - 11:00 a.m.

Pathology for Physical Therapy II

This course is not eligible for Credit/D/Fail grading. In Person Learning Fri 12:00 p.m. - 5:00 p.m.

Leadership and Organizational Behaviour

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

Leadership and Organizational Behaviour

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

Leadership and Organizational Behaviour

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

Leadership and Organizational Behaviour

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Leadership and Organizational Behaviour

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

Leadership and Organizational Behaviour

This course is not eligible for Credit/D/Fail grading. Online Learning Arranged Arranged
<table>
<thead>
<tr>
<th>CRN</th>
<th>Section</th>
<th>Title</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>531</td>
<td>001</td>
<td>Pathology for Physical Therapy III</td>
<td>W1</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>
</tr>
<tr>
<td>534</td>
<td>001</td>
<td>Clinical Practice III</td>
<td>W2</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>
</tr>
<tr>
<td>544</td>
<td>001</td>
<td>Clinical Practice IVa</td>
<td>W1</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>
</tr>
<tr>
<td>545</td>
<td>001</td>
<td>Clinical Practice Vb</td>
<td>W1</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>
</tr>
<tr>
<td>552</td>
<td>001</td>
<td>Rehabilitation Research</td>
<td>W1-2</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>
</tr>
<tr>
<td>554</td>
<td>001</td>
<td>Clinical Practice V</td>
<td>W1-2</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>
</tr>
<tr>
<td>564</td>
<td>001</td>
<td>Clinical Practice VIA</td>
<td>W2</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>
</tr>
<tr>
<td>565</td>
<td>001</td>
<td>Clinical Practice VIB</td>
<td>W2</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>
</tr>
<tr>
<td>574</td>
<td>001</td>
<td>Clinical Practice VII</td>
<td>W1</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>
</tr>
<tr>
<td>574</td>
<td>002</td>
<td>Clinical Practice VII</td>
<td>W1-2</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>
</tr>
<tr>
<td>576</td>
<td>001</td>
<td>Clinical Decision Making V</td>
<td>W1-2</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>
</tr>
<tr>
<td>576</td>
<td>002</td>
<td>Clinical Decision Making V</td>
<td>W1-2</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>
</tr>
<tr>
<td>580</td>
<td>001</td>
<td>Orthopaedic Clinical Reasoning and Skills</td>
<td>W2</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Restricted to students in the Graduate Certificate in Orthopaedic Physical Therapy program. This course is not eligible for Credit/D/Fail grading. Prerequisites: RHSC 501. Corequisite: PHTH 581.</td>
</tr>
<tr>
<td>580</td>
<td>002</td>
<td>Orthopaedic Clinical Reasoning and Skills</td>
<td>W1</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Restricted to students in the Graduate Certificate in Orthopaedic Physical Therapy program. This course is not eligible for Credit/D/Fail grading. Prerequisites: RHSC 501. Corequisite: PHTH 581.</td>
</tr>
<tr>
<td>581</td>
<td>001</td>
<td>Evidence and Theory in Musculoskeletal Physical Therapy</td>
<td>W2</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Restricted to students in the Graduate Certificate in Orthopaedic Musculoskeletal Physical Therapy program. This course is not eligible for Credit/D/Fail grading. Prerequisites: RHSC 501. Corequisite: PHTH 581.</td>
</tr>
<tr>
<td>581</td>
<td>002</td>
<td>Evidence and Theory in Musculoskeletal Physical Therapy</td>
<td>W1</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Restricted to students in the Graduate Certificate in Orthopaedic Musculoskeletal Physical Therapy program. This course is not eligible for Credit/D/Fail grading. Prerequisites: RHSC 501. Corequisite: PHTH 581.</td>
</tr>
<tr>
<td>581-5</td>
<td>001</td>
<td>Introductory Physics</td>
<td>W1</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Kinematics, forces, energy, momentum, use of graphs and vectors in physics; thermal energy, heat transfer, Earth's energy balance, electricity. Students with credit for PHYS 12 may not obtain credit for this course unless they took AP (5), 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.</td>
</tr>
<tr>
<td>581-5</td>
<td>002</td>
<td>Introductory Physics</td>
<td>W1</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Kinematics, forces, energy, momentum, use of graphs and vectors in physics; thermal energy, heat transfer, Earth's energy balance, electricity. Students with credit for PHYS 12 may not obtain credit for this course unless they took AP (5), 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.</td>
</tr>
<tr>
<td>581-5</td>
<td>003</td>
<td>Introductory Physics</td>
<td>W1</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Kinematics, forces, energy, momentum, use of graphs and vectors in physics; thermal energy, heat transfer, Earth's energy balance, electricity. Students with credit for PHYS 12 may not obtain credit for this course unless they took AP (5), 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.</td>
</tr>
<tr>
<td>581-5</td>
<td>004</td>
<td>Introductory Physics</td>
<td>W1</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Kinematics, forces, energy, momentum, use of graphs and vectors in physics; thermal energy, heat transfer, Earth's energy balance, electricity. Students with credit for PHYS 12 may not obtain credit for this course unless they took AP (5), 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.</td>
</tr>
<tr>
<td>581-5</td>
<td>005</td>
<td>Introductory Physics</td>
<td>W1</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Kinematics, forces, energy, momentum, use of graphs and vectors in physics; thermal energy, heat transfer, Earth's energy balance, electricity. Students with credit for PHYS 12 may not obtain credit for this course unless they took AP (5), 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.</td>
</tr>
<tr>
<td>581-5</td>
<td>006</td>
<td>Introductory Physics</td>
<td>W1</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>Kinematics, forces, energy, momentum, use of graphs and vectors in physics; thermal energy, heat transfer, Earth's energy balance, electricity. Students with credit for PHYS 12 may not obtain credit for this course unless they took AP (5), 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.</td>
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<tr>
<td>Course Code</td>
<td>Section</td>
<td>Day(s)</td>
<td>Time</td>
<td>Credits</td>
<td>Location</td>
<td>Description</td>
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<td>PHYS V 100-TIA</td>
<td>W1</td>
<td>Wed</td>
<td>8:00 a.m. - 10:00 a.m.</td>
<td>3-0-2</td>
<td>Introductory Physics</td>
<td>Kinematics, force, energy, moment, 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 the calculus 12 is required. Physics 11 is required for first-year students, strongly recommended for others. In Person Learning</td>
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In Person Learning

PHYS_V 100-T11  
PHYS_V 100-T11  Introductory Physics  
In Person Learning  Thu  9:30 a.m. - 11:30 a.m.

PHYS_V 100-T21  
PHYS_V 100-T21  Introductory Physics  
In Person Learning  Thu  12:00 p.m. - 2:00 p.m.

PHYS_V 100-T31  
PHYS_V 100-T31  Introductory Physics  
In Person Learning  Fri  2:00 p.m. - 4:00 p.m.

PHYS_V 100-T41  
PHYS_V 100-T41  Introductory Physics  
In Person Learning  Fri  3:00 p.m. - 5:00 p.m.

PHYS_V 106-101  
PHYS_V 106-101  Enriched Physics I (lecture)  
In Person Learning  Mon Wed Fri  10:00 a.m. - 12:00 p.m.

PHYS_V 106-104  
PHYS_V 106-104  Enriched Physics I (lecture)  
In Person Learning  Mon Wed Fri  12:00 p.m. - 2:00 p.m.

PHYS_V 106-111  
PHYS_V 106-111  Enriched Physics I (lecture)  
In Person Learning  Tue  12:00 p.m. - 2:00 p.m.

PHYS_V 106-112  
PHYS_V 106-112  Enriched Physics I (lecture)  
In Person Learning  Wed  12:00 p.m. - 1:00 p.m.

PHYS_V 106-115  
PHYS_V 106-115  Enriched Physics I (lecture)  
In Person Learning  Wed  1:00 p.m. - 2:00 p.m.

PHYS_V 106-121  
PHYS_V 106-121  Enriched Physics I (lecture)  
In Person Learning  Mon  10:00 a.m. - 12:00 p.m.

PHYS_V 106-124  
PHYS_V 106-124  Enriched Physics I (lecture)  
In Person Learning  Mon  11:00 a.m. - 12:00 p.m.

PHYS_V 108-010  
PHYS_V 108-010  Enriched Physics II  
In Person Learning  Arranged  Arranged

PHYS_V 108-011  
PHYS_V 108-011  Enriched Physics II  
In Person Learning  Wed  11:00 a.m. - 12:00 p.m.

PHYS_V 108-020  
PHYS_V 108-020  Enriched Physics II  
In Person Learning  Wed  12:00 p.m. - 1:00 p.m.

PHYS_V 108-021  
PHYS_V 108-021  Enriched Physics II  
In Person Learning  Wed  1:00 p.m. - 2:00 p.m.

PHYS_V 108-022  
PHYS_V 108-022  Enriched Physics II  
In Person Learning  Wed  2:00 p.m. - 3:00 p.m.

PHYS_V 108-023  
PHYS_V 108-023  Enriched Physics II  
In Person Learning  Wed  3:00 p.m. - 4:00 p.m.

PHYS_V 108-024  
PHYS_V 108-024  Enriched Physics II  
In Person Learning  Wed  4:00 p.m. - 5:00 p.m.

PHYS_V 108-030  
PHYS_V 108-030  Enriched Physics II  
In Person Learning  Wed  5:00 p.m. - 6:00 p.m.

PHYS_V 108-031  
PHYS_V 108-031  Enriched Physics II  
In Person Learning  Wed  6:00 p.m. - 7:00 p.m.

PHYS_V 108-032  
PHYS_V 108-032  Enriched Physics II  
In Person Learning  Wed  7:00 p.m. - 8:00 p.m.

PHYS_V 108-033  
PHYS_V 108-033  Enriched Physics II  
In Person Learning  Wed  8:00 p.m. - 9:00 p.m.

PHYS_V 108-034  
PHYS_V 108-034  Enriched Physics II  
In Person Learning  Wed  9:00 p.m. - 10:00 p.m.

PHYS_V 117-101  
PHYS_V 117-101  Dynamics and Waves  
In Person Learning  Mon  11:00 a.m. - 12:00 p.m.

PHYS_V 117-102  
PHYS_V 117-102  Dynamics and Waves  
In Person Learning  Mon  12:00 p.m. - 1:00 p.m.
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<th>Days</th>
<th>Location</th>
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<td>PHYS_V 117-T1A</td>
<td>T1A</td>
<td>5:30 p.m. - 6:30 p.m.</td>
<td>Mon</td>
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<td>PHYS_V 117-T1B</td>
<td>T1B</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>Tue</td>
<td>In Person Learning</td>
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<td>PHYS_V 117-T1C</td>
<td>T1C</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>Wed</td>
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<td>PHYS_V 117-T1D</td>
<td>T1D</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>Thu</td>
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<td>PHYS_V 117-T1E</td>
<td>T1E</td>
<td>7:00 p.m. - 8:00 p.m.</td>
<td>Fri</td>
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In Person Learning: Mon - Fri from 5:30 p.m. to 6:30 p.m., 10:00 a.m. to 11:00 a.m., 1:00 p.m. to 2:00 p.m., 4:00 p.m. to 5:00 p.m., and 7:00 p.m. to 8:00 p.m.
PHYS_V 118 T2F

PHYS_V 118 T2G

PHYS_V 118 T2F Electricity, Light and Radiation

PHYS_V 118 T2G Electricity, Light and Radiation

PHYS_V 118 T2F Optics, electricity and magnetism, electric circuits, radioactivity, including biological applications. [3-0-

PHYS_V 118 T2G Optics, electricity and magnetism, electric circuits, radioactivity, including biological applications. [3-0-

PHYS_V 118 T1G

PHYS_V 118 T1G Experimental Physics Lab.

PHYS_V 118 T1E

PHYS_V 118 T1E Experimental Physics Lab.

PHYS_V 118 T1F

PHYS_V 118 T1F Experimental Physics Lab.

PHYS_V 118 T1D

PHYS_V 118 T1D Experimental Physics Lab.

PHYS_V 118 T1C

PHYS_V 118 T1C Experimental Physics Lab.

PHYS_V 118 T1B

PHYS_V 118 T1B Experimental Physics Lab.

PHYS_V 118 T1A

PHYS_V 118 T1A Experimental Physics Lab.

PHYS_V 119 T2G

PHYS_V 119 T2G Experimental Physics Lab.

PHYS_V 119 T2F

PHYS_V 119 T2F Experimental Physics Lab.

PHYS_V 119 T2E

PHYS_V 119 T2E Experimental Physics Lab.

PHYS_V 119 T2D

PHYS_V 119 T2D Experimental Physics Lab.

PHYS_V 119 T2C

PHYS_V 119 T2C Experimental Physics Lab.

PHYS_V 119 T2B

PHYS_V 119 T2B Experimental Physics Lab.

PHYS_V 119 T2A

PHYS_V 119 T2A Experimental Physics Lab.
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<th>Lecture Type</th>
<th>Notes</th>
<th>Section</th>
<th>Room</th>
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<tr>
<td>9:30 a.m. - 11:30 a.m.</td>
<td>Mon, Wed, Fri</td>
<td>Energy and Waves (Lecture)</td>
<td>In Person Learning</td>
<td>Minor, Week H</td>
<td>T2E</td>
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<td>11:00 a.m. - 12:00 p.m.</td>
<td>Tue</td>
<td>Energy and Waves (Lecture)</td>
<td>In Person Learning</td>
<td>Minor</td>
<td>W1</td>
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<td>8:00 a.m. - 10:00 a.m.</td>
<td>Fri</td>
<td>Energy and Waves (Lecture)</td>
<td>In Person Learning</td>
<td>Minor</td>
<td>131</td>
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<td>9:00 a.m. - 11:00 a.m.</td>
<td>Wed</td>
<td>Energy and Waves (Lecture)</td>
<td>In Person Learning</td>
<td>Minor</td>
<td>131</td>
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<tr>
<td>2:00 p.m. - 4:00 p.m.</td>
<td>Tue</td>
<td>Energy and Waves (Lecture)</td>
<td>In Person Learning</td>
<td>Minor</td>
<td>131</td>
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<tr>
<td>11:00 a.m. - 1:00 p.m.</td>
<td>Thu</td>
<td>3:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>Minor</td>
<td>131</td>
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<tr>
<td>9:00 a.m. - 11:00 a.m.</td>
<td>Mon, Wed, Fri</td>
<td>Energy and Waves (Lecture)</td>
<td>In Person Learning</td>
<td>Minor, Week H</td>
<td>T2E</td>
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<td>11:00 a.m. - 1:00 p.m.</td>
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<td>Energy and Waves (Lecture)</td>
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<td>2:00 p.m. - 4:00 p.m.</td>
<td>Tue</td>
<td>Energy and Waves (Lecture)</td>
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<td>3:00 p.m. - 5:00 p.m.</td>
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<td>3:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>Minor</td>
<td>131</td>
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</table>

**Course Description:**
- **Fluids, harmonic oscillator, travelling waves, standing waves, sound, and interference of light waves, including diffraction.** [3-0-1] Prerequisite: One of PHYS 12, PHYS 300. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.
- Including diffraction. [3-0-1] Prerequisite: One of PHYS 12, PHYS 300. 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 300. 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 300. 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 300. 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 300. 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 300. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.
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- Fluids, harmonic oscillator, travelling waves, standing waves, sound, and interference of light waves, including diffraction. [3-0-1] Prerequisite: One of PHYS 12, PHYS 300. Corequisite: One of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.
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<td>PHYS 157-101</td>
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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 101, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

Heat, thermodynamics, oscillations, waves, and sound. [3-0-1] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 101, 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 101, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.

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Heat, thermodynamics, oscillations, waves, and sound. [3-0-1] Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 101, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184.
PHYS_V 157-TSH PHYS_V 157 TSH Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Tue 12:30 p.m. - 1:30 p.m.

PHYS_V 157-TSI PHYS_V 157 TSI Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Fri 1:00 p.m. - 2:00 p.m.

PHYS_V 157-TSI PHYS_V 157 TSI Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Fri 10:00 a.m. - 11:00 a.m.

PHYS_V 157-TX1 PHYS_V 157 TX1 Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Thu 1:00 p.m. - 2:00 p.m.

PHYS_V 157-TX1 PHYS_V 157 TX1 Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Mon 9:00 a.m. - 10:00 a.m.

PHYS_V 157-TXM PHYS_V 157 TXM Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Thu 11:00 a.m. - 12:00 p.m.

PHYS_V 157-TXN PHYS_V 157 TXN Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Thu 1:00 p.m. - 2:00 p.m.

PHYS_V 157-T1P PHYS_V 157 T1P Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Fri 9:00 a.m. - 10:00 a.m.

PHYS_V 157-T1R PHYS_V 157 T1R Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Tue 9:30 a.m. - 10:30 a.m.

PHYS_V 157-T2A PHYS_V 157 T2A Introductory Physics for Engineers I W2 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Thu 1:00 p.m. - 2:00 p.m.

PHYS_V 157-TAI PHYS_V 157 TAI Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Fri 9:00 a.m. - 10:00 a.m.

PHYS_V 157-TB1 PHYS_V 157 TB1 Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Thu 1:00 p.m. - 2:00 p.m.

PHYS_V 157-TC1 PHYS_V 157 TC1 Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Thu 1:00 p.m. - 2:00 p.m.

PHYS_V 157-TD1 PHYS_V 157 TD1 Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Tue 10:10 a.m. - 11:30 a.m.

PHYS_V 157-TE1 PHYS_V 157 TE1 Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Mon 2:00 p.m. - 3:00 p.m.

PHYS_V 157-TF1 PHYS_V 157 TF1 Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Fri 2:00 p.m. - 3:00 p.m.

PHYS_V 157-TG1 PHYS_V 157 TG1 Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Fri 1:00 p.m. - 2:00 p.m.

PHYS_V 157-TH1 PHYS_V 157 TH1 Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Fri 2:00 p.m. - 3:00 p.m.

PHYS_V 157-TI1 PHYS_V 157 TI1 Introductory Physics for Engineers I W1 Heat, thermodynamics, oscillations, waves, and sound; (3-0-1) Prerequisite: One of PHYS 12, PHYS 100. Corequisite: One of MATH 103, MATH 105, MATH 110, MATH 120, MATH 180, MATH 184. In Person-Learning Fri 3:00 p.m. - 4:00 p.m.

PHYS_V 158-201 PHYS_V 158 201 Introductory Physics for Engineers II W2 Electricity and magnetism, DC and AC circuits, optics; (3-0-1) Prerequisite: PHYS 157. Corequisite: One of MATH 101, MATH 103, MATH 110. In Person-Learning Mon 8:00 a.m. - 10:00 a.m.

PHYS_V 158-202 PHYS_V 158 202 Introductory Physics for Engineers II W2 Electricity and magnetism, DC and AC circuits, optics; (3-0-1) Prerequisite: PHYS 157. Corequisite: One of MATH 101, MATH 103, MATH 110. In Person-Learning Mon 10:00 a.m. - 2:00 p.m.

PHYS_V 158-203 PHYS_V 158 203 Introductory Physics for Engineers II W2 Electricity and magnetism, DC and AC circuits, optics; (3-0-1) Prerequisite: PHYS 157. Corequisite: One of MATH 101, MATH 103, MATH 110. In Person-Learning Tue Thu 2:00 p.m. - 3:00 p.m.

PHYS_V 158-204 PHYS_V 158 204 Introductory Physics for Engineers II W2 Electricity and magnetism, DC and AC circuits, optics; (3-0-1) Prerequisite: PHYS 157. Corequisite: One of MATH 101, MATH 103, MATH 110. In Person-Learning Arranged Arranged
One of MATH 101, MATH 103, MATH 105, MATH 121.

Electricity and magnetism, DC and AC circuits, optics. [3-0-1] Prerequisite: PHYS 157. Corequisite:
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<th>Course Code</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Corequisites</th>
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<td>3-0</td>
<td>Introductory Physics for Engineers II</td>
<td>Electricity and magnetism, DC and AC circuits, optics.</td>
<td>One of MATH 101, MATH 103, MATH 105, MATH 112.</td>
<td>Wed</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<td>One of MATH 101, MATH 103, MATH 105, MATH 112.</td>
<td>Wed</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>Electricity and magnetism, DC and AC circuits, optics.</td>
<td>One of MATH 101, MATH 103, MATH 105, MATH 112.</td>
<td>Wed</td>
<td>9:30 a.m. - 10:30 a.m.</td>
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<td>Introductory Physics for Engineers II</td>
<td>Electricity and magnetism, DC and AC circuits, optics.</td>
<td>One of MATH 101, MATH 103, MATH 105, MATH 112.</td>
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<td>8:00 a.m. - 9:00 a.m.</td>
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<td>PHYS V 158-THI</td>
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<td>Introductory Physics Laboratory for Engineers</td>
<td>A laboratory course with emphasis on experimental design, measurement and analysis techniques.</td>
<td>One of MATH 101, MATH 103, MATH 105, MATH 112.</td>
<td>Wed</td>
<td>7:30 a.m. - 8:30 a.m.</td>
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<td>PHYS V 158-TIF</td>
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<td>Introductory Physics Laboratory for Engineers</td>
<td>A laboratory course with emphasis on experimental design, measurement and analysis techniques.</td>
<td>One of MATH 101, MATH 103, MATH 105, MATH 112.</td>
<td>Wed</td>
<td>6:00 a.m. - 7:00 a.m.</td>
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<td>One of MATH 101, MATH 103, MATH 105, MATH 112.</td>
<td>Wed</td>
<td>5:00 a.m. - 6:00 a.m.</td>
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<td>One of MATH 101, MATH 103, MATH 105, MATH 112.</td>
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<td>4:30 a.m. - 5:30 a.m.</td>
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<td>One of MATH 101, MATH 103, MATH 105, MATH 112.</td>
<td>Wed</td>
<td>1:00 a.m. - 2:00 a.m.</td>
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<td>One of MATH 101, MATH 103, MATH 105, MATH 112.</td>
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<td>PHYS V 159-LT2</td>
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<td>Introductory Physics Laboratory for Engineers</td>
<td>W2</td>
<td>1:00 p.m. - 4:00 p.m.</td>
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<td>Mon 8:00 a.m. - 12:00 p.m.</td>
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<td>Mechanics I</td>
<td>W1</td>
<td>121</td>
<td>Mechanics I</td>
<td>Mon 2:00 p.m. - 3:00 p.m.</td>
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<td>Mechanics I</td>
<td>W2</td>
<td>201</td>
<td>Mechanics I</td>
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<td>Mechanics I</td>
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<td>202</td>
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<td>Mechanics I</td>
<td>W2</td>
<td>203</td>
<td>Mechanics I</td>
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<td>Mechanics I</td>
<td>W2</td>
<td>204</td>
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<td>Thu 5:00 p.m. - 6:00 p.m.</td>
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<td>Mechanics I</td>
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<td>205</td>
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<td>Mechanics I</td>
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<td>206</td>
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<td>Mechanics I</td>
<td>W2</td>
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<td>208</td>
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<td>W2</td>
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<td>PHYS V 170-101</td>
<td>Mechanics I</td>
<td>W2</td>
<td>211</td>
<td>Mechanics I</td>
<td>Mon 4:00 p.m. - 5:00 p.m.</td>
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<td>W2</td>
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<td>W2</td>
<td>213</td>
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<td>Mechanics I</td>
<td>W2</td>
<td>214</td>
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<td>Thu 4:00 p.m. - 5:00 p.m.</td>
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<td>Mechanics I</td>
<td>W2</td>
<td>215</td>
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<td>Mechanics I</td>
<td>W2</td>
<td>216</td>
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<td>217</td>
<td>Mechanics I</td>
<td>Sun 4:00 p.m. - 5:00 p.m.</td>
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## PHYS-V 170 T2D

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<tr>
<td>170</td>
<td>Mechanics I</td>
<td>W2</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>Fri</td>
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Prerequisites: Either (a) one of PHYS 12, PHYS 100 and one of MATH 100, MATH 103, MATH 105, MATH 120, MATH 121, MATH 122; or (b) SCIE 001.

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 co-requisite: one of PHYS 12, PHYS 100 and one of MATH 100, MATH 103, MATH 105, MATH 120, MATH 121. [3-0-1]

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 co-requisite: one of MATH 100, MATH 103, MATH 105, MATH 120, MATH 121. [3-0-1]

Special relativity: Lorentz transformation, dynamics and conservation laws. Quantum physics: the experimental evidence for quantization; a qualitative discussion of the concepts of quantum mechanics and their application to simple systems of atoms and nuclei. [4-0-0] Prerequisite: Either (a) one of PHYS 12, PHYS 100 and one of MATH 100, MATH 103, MATH 105, MATH 120, MATH 121; or (b) SCIE 001.

Special relativity: Lorentz transformation, dynamics and conservation laws. Quantum physics: the experimental evidence for quantization; a qualitative discussion of the concepts of quantum mechanics and their application to simple systems of atoms and nuclei. [4-0-0] Prerequisite: Either (a) one of PHYS 12, PHYS 100 and one of MATH 100, MATH 103, MATH 105, MATH 120, MATH 121; or (b) SCIE 001.
PHYS V 203-201
PHYS V 203 201
Thermal Physics I
W2
In Person Learning
Tue Thu
9:00 a.m. - 11:00 a.m.

PHYS V 210-101
PHYS V 210 101
Introduction to Computational Physics
W1
In Person Learning
Thu

PHYS V 210-102
PHYS V 210 102
Introduction to Computational Physics
W1
In Person Learning
Tue

PHYS V 230-1LA
PHYS V 230 11A
Introduction to Computational Physics
W1
In Person Learning
Mon Wed
12:00 p.m. - 1:00 p.m.

PHYS V 230-1LB
PHYS V 230 11B
Introduction to Computational Physics
W1
In Person Learning
Mon Wed
3:30 p.m. - 4:00 p.m.

PHYS V 236-201
PHYS V 236 201
Intermediate Mechanics
W2
In Person Learning
Mon Wed Fri
11:00 a.m. - 12:00 p.m.

PHYS V 236-202
PHYS V 236 202
Intermediate Mechanics
W2
In Person Learning
Tue
3:00 p.m. - 4:00 p.m.

PHYS V 236-21B
PHYS V 236 21B
Intermediate Mechanics
W2
In Person Learning
Tue
3:00 p.m. - 4:00 p.m.

PHYS V 236-21C
PHYS V 236 21C
Intermediate Mechanics
W2
In Person Learning
Tue
11:00 a.m. - 12:00 p.m.

PHYS V 239-1LA
PHYS V 239 11A
Intermediate Experimental Physics I
W1
In Person Learning
Mon Wed
11:00 a.m. - 12:00 p.m.

PHYS V 239-1LB
PHYS V 239 11B
Intermediate Experimental Physics I
W1
In Person Learning
Thu

PHYS V 239-11C
PHYS V 239 11C
Intermediate Experimental Physics I
W1
In Person Learning
Fri
2:00 p.m. - 5:00 p.m.

PHYS V 239-1LD
PHYS V 239 11D
Intermediate Experimental Physics I
W1
In Person Learning
Mon
2:00 p.m. - 5:00 p.m.

PHYS V 239-21A
PHYS V 239 21A
Intermediate Experimental Physics I
W1
In Person Learning
Tue
11:00 a.m. - 12:30 p.m.

PHYS V 239-21A
PHYS V 239 21A
Intermediate Experimental Physics II
W2
Thermodynamics experiments, modern physics experiments and use of computers in data analysis. (0-3-1*) Preerequisite: PHYS 219. Corequisite: MATH 215.
In Person Learning
Tue
2:00 p.m. - 5:00 p.m.

PHYS V 239-21B
PHYS V 239 21B
Intermediate Experimental Physics II
W2
Thermodynamics experiments, modern physics experiments and use of computers in data analysis. (0-3-1*) Preerequisite: PHYS 219. Corequisite: MATH 215.
In Person Learning
Wed
2:00 p.m. - 5:00 p.m.

PHYS V 239-21C
PHYS V 239 21C
Intermediate Experimental Physics II
W2
Thermodynamics experiments, modern physics experiments and use of computers in data analysis. (0-3-1*) Preerequisite: PHYS 219. Corequisite: MATH 215.
In Person Learning
Thu
2:00 p.m. - 5:00 p.m.

PHYS V 239-21D
PHYS V 239 21D
Intermediate Experimental Physics II
W2
Thermodynamics experiments, modern physics experiments and use of computers in data analysis. (0-3-1*) Preerequisite: PHYS 219. Corequisite: MATH 215.
In Person Learning
Fri
2:00 p.m. - 5:00 p.m.

PHYS V 239-21A
PHYS V 239 21A
Intermediate Experimental Physics II
W2
Thermodynamics experiments, modern physics experiments and use of computers in data analysis. (0-3-1*) Prequisite: PHYS 219. Corequisite: MATH 215.
In Person Learning
Arranged

PHYS V 239-21A
PHYS V 239 21A
Co-operative Work Placement I
W2
Arranged

PHYS V 239-21A
PHYS V 239 21A
Co-operative Work Placement II
W2
Appointed and supervised clerical or technical work experience in an industrial or educational setting for a minimum of 3.5 months. Normally taken during the winter term of the second year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Physics. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHYS 200.
In Person Learning
Arranged

PHYS V 239-21A
PHYS V 239 21A
Co-operative Work Placement III
W2
Arranged
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<td>3-0-1</td>
<td>Electricity and Magnetism</td>
<td>Principles and applications of quantum mechanics, wave mechanics, the Schrödinger equation, expectation values, Hermitian operators, commuting observables, one-dimensional systems, harmonic oscillators, angular momentum, three-dimensional systems. [3-0-1] Prerequisite: One of PHYS 200, PHYS 250. Corequisite: One of MATH 257, MATH 316, PHYS 312.</td>
</tr>
<tr>
<td>PHYS_V 306-101</td>
<td>3-0-1</td>
<td>Electricity and Magnetism</td>
<td>Maxwell’s equations and their applications, electrical fields and potentials of static charge distributions, current, fields of moving charges, magnetic fields, electromagnetic induction. [3-0-1] Prerequisite: One of PHYS 202, PHYS 208, PHYS 212, PHYS 216, PHY 216, SCI 301 and one of MATH 217, MATH 227, MATH 213 and one of MATH 212, MATH 251.</td>
</tr>
<tr>
<td>PHYS_V 306-102</td>
<td>3-0-1</td>
<td>Electricity and Magnetism</td>
<td>Maxwell’s equations and their applications, electrical fields and potentials of static charge distributions, current, fields of moving charges, magnetic fields, electromagnetic induction. [3-0-1] Prerequisite: One of PHYS 202, PHYS 208, PHYS 212, PHYS 216, PHY 216, SCI 301 and one of MATH 217, MATH 227, MATH 213 and one of MATH 212, MATH 251.</td>
</tr>
<tr>
<td>PHYS_V 309-101</td>
<td>3-0-1</td>
<td>Advanced Mechanics</td>
<td>Variational calculus, Lagrangian dynamics, rigid body motion including free and forced precession, Hamiltonian mechanics, Poisson brackets, canonical coordinates, Hamilton-Jacobi theory, action-angle variables. Introduction to dynamical chaos: determinism, Lyapunov exponents. [3-0-1] Prerequisite: One of PHYS 216, ENPH 270 and one of MATH 215, MATH 251.</td>
</tr>
<tr>
<td>PHYS_V 309-102</td>
<td>3-0-1</td>
<td>Advanced Mechanics</td>
<td>Variational calculus, Lagrangian dynamics, rigid body motion including free and forced precession, Hamiltonian mechanics, Poisson brackets, canonical coordinates, Hamilton-Jacobi theory, action-angle variables. Introduction to dynamical chaos: determinism, Lyapunov exponents. [3-0-1] Prerequisite: One of PHYS 216, ENPH 270 and one of MATH 215, MATH 251.</td>
</tr>
<tr>
<td>PHYS_V 309-103</td>
<td>3-0-1</td>
<td>Advanced Mechanics</td>
<td>Variational calculus, Lagrangian dynamics, rigid body motion including free and forced precession, Hamiltonian mechanics, Poisson brackets, canonical coordinates, Hamilton-Jacobi theory, action-angle variables. Introduction to dynamical chaos: determinism, Lyapunov exponents. [3-0-1] Prerequisite: One of PHYS 216, ENPH 270 and one of MATH 215, MATH 251.</td>
</tr>
</tbody>
</table>

**Course Details**

- **PHYS_V 306-101**
  - **Credits:** 3-0-1
  - **Title:** Electricity and Magnetism
  - **Description:** Principles and applications of quantum mechanics, wave mechanics, the Schrödinger equation, expectation values, Hermitian operators, commuting observables, one-dimensional systems, harmonic oscillators, angular momentum, three-dimensional systems. [3-0-1] Prerequisite: One of PHYS 200, PHYS 250. Corequisite: One of MATH 257, MATH 316, PHYS 312.

- **PHYS_V 306-102**
  - **Credits:** 3-0-1
  - **Title:** Electricity and Magnetism
  - **Description:** Maxwell’s equations and their applications, electrical fields and potentials of static charge distributions, current, fields of moving charges, magnetic fields, electromagnetic induction. [3-0-1] Prerequisite: One of PHYS 202, PHYS 208, PHYS 212, PHYS 216, PHY 216, SCI 301 and one of MATH 217, MATH 227, MATH 213 and one of MATH 212, MATH 251.

- **PHYS_V 309-101**
  - **Credits:** 3-0-1
  - **Title:** Advanced Mechanics
  - **Description:** Variational calculus, Lagrangian dynamics, rigid body motion including free and forced precession, Hamiltonian mechanics, Poisson brackets, canonical coordinates, Hamilton-Jacobi theory, action-angle variables. Introduction to dynamical chaos: determinism, Lyapunov exponents. [3-0-1] Prerequisite: One of PHYS 216, ENPH 270 and one of MATH 215, MATH 251.

- **PHYS_V 309-102**
  - **Credits:** 3-0-1
  - **Title:** Advanced Mechanics
  - **Description:** Variational calculus, Lagrangian dynamics, rigid body motion including free and forced precession, Hamiltonian mechanics, Poisson brackets, canonical coordinates, Hamilton-Jacobi theory, action-angle variables. Introduction to dynamical chaos: determinism, Lyapunov exponents. [3-0-1] Prerequisite: One of PHYS 216, ENPH 270 and one of MATH 215, MATH 251.

- **PHYS_V 309-103**
  - **Credits:** 3-0-1
  - **Title:** Advanced Mechanics
  - **Description:** Variational calculus, Lagrangian dynamics, rigid body motion including free and forced precession, Hamiltonian mechanics, Poisson brackets, canonical coordinates, Hamilton-Jacobi theory, action-angle variables. Introduction to dynamical chaos: determinism, Lyapunov exponents. [3-0-1] Prerequisite: One of PHYS 216, ENPH 270 and one of MATH 215, MATH 251.

**Electrical Laboratory**  
W1  
Selected experiments in electromagnetism and electronics; computer data acquisition; advanced data analysis and simulation. [1-4-0] Prerequisite: One of PHYS 209, PHYS 219, ENPH 259.  
In Person Learning  Tue  2:00 p.m. - 6:00 p.m.

**Electrical Laboratory**  
W1  
Selected experiments in electromagnetism and electronics; computer data acquisition; advanced data analysis and simulation. [1-4-0] Prerequisite: One of PHYS 209, PHYS 219, ENPH 259.  
In Person Learning  Wed  2:00 p.m. - 6:00 p.m.

**Fundamental principles and applications of data-centric research techniques in Physics and Astronomy. Topics: principles of quantum mechanics, quantum field theory, elementary particles and forces of nature.**  
W1  
In Person Learning  Tue  1:00 p.m. - 3:00 p.m.

**Machine Learning for Physics and Astronomy Data Analysis**  
W2  
The application of ordinary and partial differential equations to physical problems; boundaries and initial value problems associated with heat, wave and Laplace equations. Fourier analysis; expansions in series of orthogonal functions. Credit will be granted for only one of PHYS 312 and MATH 110.  
In Person Learning  Mon Wed  9:00 a.m. - 11:00 a.m.

**Quantum Physics of Materials**  
W1  
Crystal structure, elasticity and phonons, elementary electronic transport, defects, alloys, liquid crystals and polymers. [1-4-0] Prerequisite: One of PHYS 301, ENPH 257, CHEM 301, CHEM 304 and one of PHYS 200, PHYS 219, CHEM 312. Corequisite: [MATH243].  
In Person Learning  Tue  3:00 p.m. - 5:00 p.m.

**Electronics Laboratory**  
W2  
A project-oriented lab introducing the design and construction of microprocessor-controlled devices. [1-4-0] Prerequisite: One of PHYS 209, PHYS 219, ENPH 259.  
In Person Learning  Tue  11:30 a.m. - 1:30 p.m.

**Electronics Laboratory**  
W2  
A project-oriented lab introducing the design and construction of microprocessor-controlled devices. [1-4-0] Prerequisite: One of PHYS 209, PHYS 219, ENPH 259.  
In Person Learning  Tue  2:00 p.m. - 6:00 p.m.

**Electronics Laboratory**  
W2  
A project-oriented lab introducing the design and construction of microprocessor-controlled devices. [1-4-0] Prerequisite: One of PHYS 209, PHYS 219, ENPH 259.  
In Person Learning  Wed  2:00 p.m. - 6:00 p.m.

**Energy and Climate**  
W1  
The fundamental physics behind global issues of energy use and climate change. [1-0-0] Prerequisite: Either (i) one of PHYS 131, PHYS 133, MATH 123 and one of PHYS 200, PHYS 219, MATH 118, PHYS 209, PHYS 219, MATH 110, PHYS 209, PHYS 219, or (ii) a computer science course.  
In Person Learning  Thu  2:00 p.m. - 6:00 p.m.

**Physics of Music**  
W1  
An introduction to the physics 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-wave phenomena, scales, theories of physical hearing, examination of specific musical instruments, etc. Not for credit in the Faculty of Science.  
In Person Learning  Thu  2:00 p.m. - 6:00 p.m.

**Frontiers in Physics and Astronomy**  
W1  
A research project, undertaken under the direction of a faculty member, culminating in a written report. This course requires approval of the course instructor and program advisor in the Department of Physics and Astronomy. [1-0-0]  
In Person Learning  Thu  2:00 p.m. - 6:00 p.m.

**Applications of Classical Mechanics**  
W2  
Review of principles, Particle mechanics: Euler's equations, tops and gyroscopes, motion of the Earth, applications of 3.5 months. Normally taken during the summer following the third year. Technical report required.  
In Person Learning  Mon Wed  1:00 p.m. - 3:00 p.m.

**Applications of Classical Mechanics**  
W2  
Review of principles, Particle mechanics: Euler's equations, tops and gyroscopes, motion of the Earth, applications of 3.5 months. Normally taken during the summer following the third year. Technical report required.  
In Person Learning  Mon Wed  8:00 a.m. - 10:00 a.m.

**Co-operative Work Placement III**  
W1  
An industrial research setting for a minimum of 3.5 months. Normally taken during the summer following the third year. Technical report required.  
In Person Learning  Arranged

**Electrostatics**  
W1  
The application of ordinary and partial differential equations to physical problems; boundaries and initial value problems associated with heat, wave and Laplace equations. Fourier analysis; expansions in series of orthogonal functions. Credit will be granted for only one of PHYS 312 and MATH 110.  
In Person Learning  Mon Wed  9:00 a.m. - 11:00 a.m.

**Co-operative Work Placement III**  
W1  
An industrial research setting for a minimum of 3.5 months. Normally taken during the summer following the third year. Technical report required.  
In Person Learning  Arranged

**Applications of Classical Mechanics**  
W2  
An introduction to the physics 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-wave phenomena, scales, theories of physical hearing, examination of specific musical instruments, etc. Not for credit in the Faculty of Science.  
In Person Learning  Thu  2:00 p.m. - 6:00 p.m.

**Applications of Classical Mechanics**  
W2  
Review of principles, Particle mechanics: Euler's equations, tops and gyroscopes, motion of the Earth, applications of 3.5 months. Normally taken during the summer following the third year. Technical report required.  
In Person Learning  Mon Wed  3:00 p.m. - 4:00 p.m.

**Applications of Classical Mechanics**  
W2  
Review of principles, Particle mechanics: Euler's equations, tops and gyroscopes, motion of the Earth, applications of 3.5 months. Normally taken during the summer following the third year. Technical report required.  
In Person Learning  Mon Wed  3:00 p.m. - 4:00 p.m.

**Applications of Classical Mechanics**  
W2  
Review of principles, Particle mechanics: Euler's equations, tops and gyroscopes, motion of the Earth, applications of 3.5 months. Normally taken during the summer following the third year. Technical report required.  
In Person Learning  Mon Wed  3:00 p.m. - 4:00 p.m.

**Applications of Classical Mechanics**  
W2  
Review of principles, Particle mechanics: Euler's equations, tops and gyroscopes, motion of the Earth, applications of 3.5 months. Normally taken during the summer following the third year. Technical report required.  
In Person Learning  Mon Wed  3:00 p.m. - 4:00 p.m.

**Applications of Classical Mechanics**  
W2  
Review of principles, Particle mechanics: Euler's equations, tops and gyroscopes, motion of the Earth, applications of 3.5 months. Normally taken during the summer following the third year. Technical report required.  
In Person Learning  Mon Wed  3:00 p.m. - 4:00 p.m.

**Applications of Classical Mechanics**  
W2  
Review of principles, Particle mechanics: Euler's equations, tops and gyroscopes, motion of the Earth, applications of 3.5 months. Normally taken during the summer following the third year. Technical report required.  
In Person Learning  Mon Wed  3:00 p.m. - 4:00 p.m.

**Applications of Classical Mechanics**  
W2  
Review of principles, Particle mechanics: Euler's equations, tops and gyroscopes, motion of the Earth, applications of 3.5 months. Normally taken during the summer following the third year. Technical report required.  
In Person Learning  Mon Wed  3:00 p.m. - 4:00 p.m.

**Applications of Classical Mechanics**  
W2  
Review of principles, Particle mechanics: Euler's equations, tops and gyroscopes, motion of the Earth, applications of 3.5 months. Normally taken during the summer following the third year. Technical report required.  
In Person Learning  Mon Wed  3:00 p.m. - 4:00 p.m.
PHYS V 402-201  PHYS V 402 201 Applications of Quantum Mechanics  
W2  
Spin and angular momentum addition, perturbation methods, and applications in the fields of Atomic, Molecular, Nuclear, and Solid State Physics. [3-0-0] Prerequisite: One of PHYS 306, PHYS 450. In Person Learning Tu Thu 9:30 a.m. - 11:00 a.m. 

PHYS V 403-201  PHYS V 403 201 Statistical Mechanics  
W2  
Principles and applications of statistical mechanics; ideal gases, degenerate Fermi-gases, Bose-Einstein condensation, black body radiation, fluctuations and phase transitions. [3-0-0] Prerequisite: One of PHYS 302, ENPH 215, PHYS 217, CHM 101, CHM 104 and one of PHYS 408, PHYS 404, CHM 312. One of MATH 102, MATH 118, STAT 201, STAT 251, STAT 302 is recommended. In Person Learning Mon Wed Fri 10:00 a.m. - 11:00 a.m. 

PHYS V 404-101  PHYS V 404 101 Introduction to Medical Physics  
W1  
Radiobiology, X-ray imaging, nuclear medicine, magnetic resonance imaging and biomedical optics. [3-0-0] Prerequisite: Third year standing in Science or Applied Science is required. MATH 200 or MATH 217 or MATH 201 is recommended. In Person Learning Tu Thu 8:00 a.m. - 9:10 a.m. 

PHYS V 405-101  PHYS V 405 101 Radiation Biophysics  
W1  
Physical and chemical interactions of ionising radiations and their biological effects at the cellular, tissue and whole-organ levels. [3-0-0] Prerequisite: One of PHYS 302, PHYS 308, PHYS 318, PHYS 313, PHYS 319, SCI 401, and third year standing in Science or Applied Science. Physical consequences of Einstein’s equations, including the principle of equivalence, curved space-time, geodesics, the Schwarzschild solution, definition of light, black holes, and gravitational waves. [3-0-0] Prerequisite: One of MATH 217, MATH 212, MATH 317 and one of MATH 201, MATH 255. PHYS 201 and one of PHYS 206, PHYS 360 are recommended. In Person Learning Tu Thu 2:00 p.m. - 3:30 p.m. 

PHYS V 406-101  PHYS V 406 101 Introduction to General Relativity  
W1  
Principles and applications of optical physics; interference, diffraction, coherence, polarization, Fresnel relations, optical coatings, waves in dielectric media, Gaussians beams, waveguides, optical cavities, lasers, fibre optics, and Fourier optics. [3-0-0] Prerequisite: One of PHYS 301, PHYS 304 and one of MATH 215, MATH 255. In Person Learning W2 8:30 a.m. - 10:00 a.m. 

PHYS V 408-12A  PHYS V 408 12A Optics  
W2  
Principles and applications of optical physics; interference, diffraction, coherence, polarization, Fresnel relations, optical coatings, waves in dielectric media, Gaussians beams, waveguides, optical cavities, lasers, fibre optics, and Fourier optics. [3-0-0] Prerequisite: One of PHYS 301, PHYS 304 and one of MATH 215, MATH 255. In Person Learning Tue 11:00 a.m. - 2:00 p.m. 

PHYS V 408-12B  PHYS V 408 12B Optics  
W2  
Principles and applications of optical physics; interference, diffraction, coherence, polarization, Fresnel relations, optical coatings, waves in dielectric media, Gaussians beams, waveguides, optical cavities, lasers, fibre optics, and Fourier optics. [3-0-0] Prerequisite: One of PHYS 301, PHYS 304 and one of MATH 215, MATH 255. In Person Learning Wed 11:00 a.m. - 2:00 p.m. 

PHYS V 408-12C  PHYS V 408 12C Optics  
W2  
Principles and applications of optical physics; interference, diffraction, coherence, polarization, Fresnel relations, optical coatings, waves in dielectric media, Gaussians beams, waveguides, optical cavities, lasers, fibre optics, and Fourier optics. [3-0-0] Prerequisite: One of PHYS 301, PHYS 304 and one of MATH 215, MATH 255. In Person Learning Fri 2:00 p.m. - 5:00 p.m. 

PHYS V 408-12D  PHYS V 408 12D Optics  
W2  
Principles and applications of optical physics; interference, diffraction, coherence, polarization, Fresnel relations, optical coatings, waves in dielectric media, Gaussians beams, waveguides, optical cavities, lasers, fibre optics, and Fourier optics. [3-0-0] Prerequisite: One of PHYS 301, PHYS 304 and one of MATH 215, MATH 255. In Person Learning Mon 2:00 p.m. - 5:00 p.m. 

PHYS V 409-A_101  PHYS V 409 A A_101 Experimental Physics  
W1  
A laboratory course with a wide choice of experiments for fourth year Honours and Major students. Topics include solid state, nuclear, classical, quantum, electromagnetic and low temperature physics. If six credits, two weekly laboratory periods and completion of a project in second term are required. [3-0-0] Prerequisite: One of PHYS 308, PHYS 319. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Mon Wed Fri 2:00 p.m. - 5:00 p.m. 

PHYS V 409-B_201  PHYS V 409 B B_201 Experimental Physics  
W2  
A laboratory course with a wide choice of experiments for fourth year Honours and Major students. Topics include solid state, nuclear, classical, quantum, electromagnetic and low temperature physics. If six credits, two weekly laboratory periods and completion of a project in second term are required. [3-0-0] Prerequisite: One of PHYS 308, PHYS 319. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Mon Wed Fri 2:00 p.m. - 5:00 p.m. 

PHYS V 410-101  PHYS V 410 101 Computational Physics  
W1  
Scientific programming applied to problems in physics. Fundamentals of numerical analysis for continuum problems. Solution of linear and non-linear algebraic systems, ordinary differential equations and stochastic problems. [3-0-0] Prerequisite: One of PHYS 312, MATH 217, MATH 316 and one of PHYS 210, EDSC 211, CPSC 101, CPSC 102, MPCS 180. In Person Learning Mon Wed Fri 11:00 a.m. - 12:00 p.m. 

PHYS V 410-71A  PHYS V 410 71A Computational Physics  
W1  
Scientific programming applied to problems in physics. Fundamentals of numerical analysis for continuum problems. Solution of linear and non-linear algebraic systems, ordinary differential equations and stochastic problems. [3-0-0] Prerequisite: One of PHYS 312, MATH 217, MATH 316 and one of PHYS 210, EDSC 211, CPSC 101, CPSC 102, MPCS 180. In Person Learning Fri 12:00 p.m. - 1:00 p.m. 

PHYS V 410-71B  PHYS V 410 71B Computational Physics  
W1  
Scientific programming applied to problems in physics. Fundamentals of numerical analysis for continuum problems. Solution of linear and non-linear algebraic systems, ordinary differential equations and stochastic problems. [3-0-0] Prerequisite: One of PHYS 312, MATH 217, MATH 316 and one of PHYS 210, EDSC 211, CPSC 101, CPSC 102, MPCS 180. In Person Learning Fri 10:00 a.m. - 11:00 a.m. 

PHYS V 420-C_001  PHYS V 420 C C_001 Physics Demonstrations  
W1 2  
The students will prepare, under the supervision of a faculty member, demonstration series of demonstrations intended to illustrate physical principles to diverse audiences. Intended for third or fourth-year Physics Majors and Math/Science Education students. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged 

PHYS V 420_DNU_C_001  PHYS V 420 DNU C C_001 Physics Demonstrations  
W2  
The students will prepare, under the supervision of a faculty member, demonstration series of demonstrations intended to illustrate physical principles to diverse audiences. Intended for third or fourth-year Physics Majors and Math/Science Education students. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged 

PHYS V 447-A_101  PHYS V 447 A A_101 Advanced Topics in Physics  
W1  
Directed study available to students in Honours Physics with approval from the head of the Department. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged 

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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Schedule Details</th>
<th>In-Person Learning</th>
<th>Arranged</th>
<th>Arranged</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 447 B 201</td>
<td>Advanced Topics in Physics</td>
<td>4.0</td>
<td>directed studies available to students in Honours Physics with approval from the Head of the Department. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>In-Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>PHYS 447 C 001</td>
<td>Advanced Topics in Physics</td>
<td>4.0</td>
<td>directed studies available to students in Honours Physics with approval from the Head of the Department. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>In-Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>PHYS 448 001</td>
<td>Honours Thesis</td>
<td>1.0</td>
<td>A research project, undertaken under the direction of a faculty member, culminating in a thesis. (1.0-6.0) Prerequisite: One of PHYS 444, PHYS 445.</td>
<td>In-Person Learning</td>
<td>Tue Thu</td>
<td>12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PHYS 472 201</td>
<td>Applied Nuclear Physics</td>
<td>2.0</td>
<td>Directed studies available to students in Honours Physics with approval from the Head of the Department. The credit value for this course will be determined in consultation with the student prior to the registration.</td>
<td>In-Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>PHYS 476 201</td>
<td>Advanced Topics in Physics</td>
<td>2.0</td>
<td>symmetry of crystal structures, reciprocal lattice, band theory, conduction in metals and semiconductors, phonons and superconductivity. (1.0-6.0) Prerequisite: PHYS550,PHYS551.</td>
<td>In-Person Learning</td>
<td>Mon Wed Fri</td>
<td>11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>PHYS 480 001</td>
<td>Student Directed Seminar</td>
<td>0.5</td>
<td>Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Normally taken during the full term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Physics. This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>PHYS 483 010</td>
<td>Co-operative Work Placement IV</td>
<td>1.0</td>
<td>Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Normally taken during the full term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Physics. This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>PHYS 482 010</td>
<td>Co-operative Work Placement V</td>
<td>2.0</td>
<td>Approved and supervised technical work experience in an industrial research setting for a minimum of 3.5 months. Normally taken during the full term of the fourth year. Technical report required. Restricted to students admitted to the Co-operative Education Program in Physics. This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>PHYS 450 010</td>
<td>Quantum Mechanics I</td>
<td>3.0</td>
<td>Non-relativistic quantum mechanics with applications to atomic, nuclear and particle physics. Perturbation theory, multiparticle states, molecular structures. Recommended pre-requisite: PHYS 482. This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person Learning</td>
<td>Mon Wed</td>
<td>12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PHYS 520 101</td>
<td>Condensed Matter Physics I</td>
<td>1.0</td>
<td>one-electron theory of solids, energy bands, lattice vibration, transport theory. This course is not eligible for Credit/D/Fail grading. Prerequisite: A background in undergraduate solid state physics such as covered in PHYS 476 is highly recommended.</td>
<td>In-Person Learning</td>
<td>Mon Wed</td>
<td>12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PHYS 521 201</td>
<td>Condensed Matter Physics II</td>
<td>2.0</td>
<td>one-electron theory of solids, energy bands, lattice vibration, transport theory. This course is not eligible for Credit/D/Fail grading. Prerequisite: A background in undergraduate solid state physics such as covered in PHYS 476 is highly recommended.</td>
<td>In-Person Learning</td>
<td>Arranged</td>
<td>Arranged</td>
</tr>
<tr>
<td>PHYS 530 101</td>
<td>Condensed Matter Physics II</td>
<td>3.0</td>
<td>Interesting electrons, electron-phonon interaction, Hubbard model, magnetism, superconductivity, use of Green functions. This course is not eligible for Credit/D/Fail grading. Prerequisite: PHYS532,Compositional.</td>
<td>In-Person Learning</td>
<td>Tue Thu</td>
<td>12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PHYS 531 201</td>
<td>Condensed Matter Physics III</td>
<td>2.0</td>
<td>boundary-value problems, Green's functions and multiple expansions, magnetostatics, Frenkel's law of induction, retarded potentials, Poisson's theorem and conservation laws, gauge invariance, Propagation of electromagnetic waves. This course is not eligible for Credit/D/Fail grading. Prerequisite: A background in electricity and magnetism such as covered in PHYS 412 is highly recommended.</td>
<td>In-Person Learning</td>
<td>Mon Wed</td>
<td>11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>PHYS 506 101</td>
<td>Special Relativity and Classical Electromagnetism</td>
<td>1.0</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person Learning</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>PHYS 506 201</td>
<td>Elementary Particle Physics</td>
<td>2.0</td>
<td>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>PHYS 506 201</td>
<td>Quantum Field Theory II</td>
<td>2.0</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: PHYS 520.</td>
<td>In-Person Learning</td>
<td>Mon Wed</td>
<td>2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>PHYS 508 C 101</td>
<td>Theory of Measurements</td>
<td>3.0</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person Learning</td>
<td>Tue Thu</td>
<td>2:00 p.m. - 3:30 p.m.</td>
</tr>
<tr>
<td>PHYS 516 201</td>
<td>Statistical Mechanics</td>
<td>2.0</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In-Person Learning</td>
<td>Tue Thu</td>
<td>9:30 a.m. - 11:00 a.m.</td>
</tr>
</tbody>
</table>
In Person Learning
9:00 a.m. - 10:30 a.m.
B_201
Radiotherapy Physics II

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

Directed Studies in Physics
9:00 a.m. - 10:30 a.m.

This course is not eligible for Credit/D/Fail grading. Prerequisite: PHYS 504.
T_101

201

549

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

Directed Studies in Physics
Arranged

Mon Wed Fri

Tue Fri

201

Directed Studies in Physics
Arranged

In Person Learning
Arranged

In Person Learning
Arranged

In Person Learning
Arranged

In Person Learning
Arranged

In Person Learning
Arranged

In Person Learning
Arranged

Clinical Experience in Medical Physics
Arranged

Nuclear Medicine
W1

In Person Learning
Arranged

Advanced Radiation Biophysics
001
Fri
W1
T

101

In Person Learning
Arranged

In Person Learning
Arranged

In Person Learning
Arranged

Quantum Field Theory I
A

In Person Learning
W1

W2

Directed Studies in Physics
W1-2
W2

W1

Master's Thesis

The credit value for this course will be determined in consultation with the student prior to the registration.

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

Anatomy, Physiology and Statistics for Medical Physicists
201

Restricted to graduate students in the M.Sc. (Medical Physics) specialization. This course is not eligible for Credit/D/Fail grading.

Clinical Experience in Medical Physics
001

Clinical treatment planning techniques, quality assurance of treatment equipment and clinical decision making for radiation therapy. Quality assurance and decision making for medical imaging. Pass/fail. This course is not eligible for Credit/D/Fail grading.

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Clinical Experience in Medical Physics
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PHYS-V 555-A_201  PHYS-V  SSS  A  A_201  Directed Studies in Physics  W2  
With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. 
The credit value for this course will be determined in consultation with the student prior to the registration. 
In Person Learning  Arranged  Arranged

PHYS-V 555-A_202  PHYS-V  SSS  A  A_202  Directed Studies in Physics  W2  
With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. 
The credit value for this course will be determined in consultation with the student prior to the registration. 
In Person Learning  Arranged  Arranged

PHYS-V 555-A_203  PHYS-V  SSS  A  A_203  Directed Studies in Physics  W2  
With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. 
The credit value for this course will be determined in consultation with the student prior to the registration. 
In Person Learning  Arranged  Arranged

PHYS-V 555-B_003  PHYS-V  SSS  B  B_003  Directed Studies in Physics  W1-2  
With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. 
The credit value for this course will be determined in consultation with the student prior to the registration. 
In Person Learning  Arranged  Arranged

PHYS-V 555-B_104  PHYS-V  SSS  B  B_104  Directed Studies in Physics  W1  
With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. 
The credit value for this course will be determined in consultation with the student prior to the registration. 
In Person Learning  Arranged  Arranged

PHYS-V 555-C_004  PHYS-V  SSS  C  C_004  Directed Studies in Physics  W1-2  
With approval of the department head, advanced studies under the direction of a staff member may be arranged in special cases. This course is not eligible for Credit/D/Fail grading. 
The credit value for this course will be determined in consultation with the student prior to the registration. 
In Person Learning  Arranged  Arranged

PHYS-V 560-201  PHYS-V  S60  201  Physics and Engineering of Particle Accelerators  W2  
This course is not eligible for Credit/D/Fail grading. 
The credit value for this course will be determined in consultation with the student prior to the registration. 
In Person Learning  Arranged  Arranged

PHYS-V 589-A_001  PHYS-V  S89  A  A_001  M.A.Sc. Thesis  W1-2  
This course is not eligible for Credit/D/Fail grading. 
The credit value for this course will be determined in consultation with the student prior to the registration. 
In Person Learning  Arranged  Arranged

PHYS-V 589-A_101  PHYS-V  S89  A  A_101  M.A.Sc. Thesis  W1  
This course is not eligible for Credit/D/Fail grading. 
The credit value for this course will be determined in consultation with the student prior to the registration. 
In Person Learning  Arranged  Arranged

PHYS-V 589-A_201  PHYS-V  S89  A  A_201  M.A.Sc. Thesis  W2  
This course is not eligible for Credit/D/Fail grading. 
The credit value for this course will be determined in consultation with the student prior to the registration. 
In Person Learning  Arranged  Arranged

PHYS-V 648-001  PHYS-V  S64  001  Doctoral Dissertation  W1-2  
In Person Learning  Arranged  Arranged

PHYS-V 648-101  PHYS-V  S64  101  Doctoral Dissertation  W1  
In Person Learning  Arranged  Arranged

PHYS-V 648-201  PHYS-V  S64  201  Doctoral Dissertation  W2  
In Person Learning  Arranged  Arranged

PLAN-V 211-001  PLAN-V  S21  001  City-Making: A Global Perspective  W2  
Contemporary city development trends, policies, and practices across the globe as explored against the backdrop of culture and technology. Includes hands-on learning. 
In Person Learning  Thu  11:00 a.m. - 12:20 p.m.

PLAN-V 211-002  PLAN-V  S21  002  City-Making: A Global Perspective  W2  
Contemporary city development trends, policies, and practices across the globe as explored against the backdrop of culture and technology. Includes hands-on learning. 
In Person Learning  Thu  12:00 p.m. - 1:00 p.m.

PLAN-V 211-003  PLAN-V  S21  003  City-Making: A Global Perspective  W2  
Contemporary city development trends, policies, and practices across the globe as explored against the backdrop of culture and technology. Includes hands-on learning. 
In Person Learning  Thu  1:00 p.m. - 2:00 p.m.

PLAN-V 211-004  PLAN-V  S21  004  City-Making: A Global Perspective  W2  
Contemporary city development trends, policies, and practices across the globe as explored against the backdrop of culture and technology. Includes hands-on learning. 
In Person Learning  Thu  3:00 p.m. - 4:00 p.m.

PLAN-V 221-001  PLAN-V  S22  001  City Visuals  W2  
An exploratory journey through the vast world of visualizing the city and ways of representing the built environment, including how to both interpret and use visualizations to read the city. 
Prerequisite: Second-year standing or above in any program. 
In Person Learning  Tue Thu  3:30 p.m. - 5:00 p.m.

PLAN-V 221-001  PLAN-V  S22  001  Methods of Community Engagement  W1  
Examination of various approaches to hands-on engagement with urban communities while examining the meaning of public, community, and participation. 
Prerequisite: Second-year standing. 
In Person Learning  Tue Thu  12:30 p.m. - 2:00 p.m.

PLAN-V 221-001  PLAN-V  S22  001  Indigeneity and the City  W2  
Indigeneity and the City.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Type</th>
<th>Description</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
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<tbody>
<tr>
<td>PLAN_V 500-001</td>
<td>Comparative Perspectives on Planning History and Futures</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.</td>
<td></td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>PLAN_V 501-001</td>
<td>Urban Planning Issues and Concepts</td>
<td>In Person Learning</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></td>
<td>Fri</td>
<td>9:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>PLAN_V 502-001</td>
<td>Reconciliation and Planning</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.</td>
<td></td>
<td>Tue</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>PLAN_V 503-001</td>
<td>Sustainability and Resilience in Planning</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.</td>
<td></td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>PLAN_V 504-001</td>
<td>Urban Design and Visual Representation</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.</td>
<td></td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>PLAN_V 505-001</td>
<td>Planning Theory, Values, and Ethics</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.</td>
<td></td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>PLAN_V 506-001</td>
<td>Information and Analysis in Planning</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.</td>
<td></td>
<td>Thu</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>PLAN_V 507-001</td>
<td>Engagement and Facilitation for Planners</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.</td>
<td></td>
<td>Mon</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>PLAN_V 508-001</td>
<td>Making and Implementing Community and Regional Plans</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.</td>
<td></td>
<td>Mon</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>PLAN_V 509-001</td>
<td>Indigenous Planning: Ways of Being, Knowing and Doing</td>
<td>In Person Learning</td>
<td>This course is not eligible for Credit/D/Fail grading. Prerequisite: Third-year standing.</td>
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<td>Mon</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>Course Code</td>
<td>Course Name</td>
<td>Description</td>
<td>Credit</td>
<td>Schedule</td>
<td>Grade Option</td>
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<tr>
<td>515-A_001</td>
<td>Directed Studies</td>
<td>Arranged</td>
<td>515</td>
<td>Mon, Tue, Wed, Thu, Fri</td>
<td>Pass/Fail</td>
<td>In Person Learning</td>
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<tr>
<td>516-A_001</td>
<td>Planning for Community Economic Development</td>
<td>W1</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>527-A_001</td>
<td>Internship</td>
<td>W1</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>527-A_002</td>
<td>Internship</td>
<td>W2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td></td>
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<tr>
<td>527-A_003</td>
<td>Internship</td>
<td>W1-2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td></td>
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<tr>
<td>527-B_001</td>
<td>Internship</td>
<td>W1</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td></td>
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<tr>
<td>527-B_002</td>
<td>Internship</td>
<td>W2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td></td>
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<tr>
<td>527-B_003</td>
<td>Internship</td>
<td>W1-2</td>
<td>Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td></td>
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<tr>
<td>531-A_001</td>
<td>Planning for Disaster-Resilient Communities</td>
<td>W1</td>
<td>Theory and practice of developing and implementing plans for sustainable regions, cities, and neighborhoods. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td></td>
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</tr>
<tr>
<td>532-A_001</td>
<td>Strategic Planning: Developing and Implementing Policy Plans</td>
<td>W2</td>
<td>The credit value for this course will be determined in consultation with the student prior to registration.</td>
<td>In Person Learning</td>
<td></td>
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<tr>
<td>540-A_001</td>
<td>Planning Practice</td>
<td>W2</td>
<td>The credit value for this course will be determined in consultation with the student prior to registration.</td>
<td>In Person Learning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>541-A_001</td>
<td>Planning Studio</td>
<td>W1-2</td>
<td>The credit value for this course will be determined in consultation with the student prior to registration.</td>
<td>In Person Learning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>542-A_001</td>
<td>Practical Practice: City Planning as a Craft</td>
<td>W1</td>
<td>Approaches, role, style, and essential skills of practical urban planning; working at the community level; developing overall policy; managing development; undertaking urban design; and engaging in the political process. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>543-A_001</td>
<td>Current Issues in Planning</td>
<td>W1</td>
<td>Each year the school may offer one or more courses on a topical issue covering recent advances in the field. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>543-A_002</td>
<td>Current Issues in Planning</td>
<td>W2</td>
<td>Each year the school may offer one or more courses on a topical issue covering recent advances in the field. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<tr>
<td>544-A_001</td>
<td>Research and Preparation of a Thesis on a Topic in Public Policy or Professional Practice</td>
<td>W1</td>
<td>Research and preparation of a thesis on a topic in public policy or professional practice. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>544-A_002</td>
<td>Research and Preparation of a Thesis on a Topic in Public Policy or Professional Practice</td>
<td>W2</td>
<td>Research and preparation of a thesis on a topic in public policy or professional practice. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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<td></td>
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<td>544-A_003</td>
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<tr>
<td>544-B_001</td>
<td>Research and Preparation of a Thesis on a Topic in Public Policy or Professional Practice</td>
<td>W2</td>
<td>Research and preparation of a thesis on a topic in public policy or professional practice. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>545-A_001</td>
<td>Directed Studies</td>
<td>W1</td>
<td>With the approval of the Chair of the program. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td></td>
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<td>545-A_002</td>
<td>Directed Studies</td>
<td>W2</td>
<td>With the approval of the Chair of the program. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
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</tbody>
</table>

Note: The credit value for each course will be determined in consultation with the student prior to registration. This course is not eligible for Credit/D/Fail grading.
This course will be taken in the first term of the Master's program. This course is not eligible for Credit/D/Fail grading.

Themes include social impacts, heritage and environmental conservation, urban revitalization, and the legal and administrative instruments for the implementation of city designs. This course is not eligible for Credit/D/Fail grading.

A studio/seminar on the history of the physical form of cities and theories of city design. Themes include the relationship between transportation and urban activity systems; analysis of supply and demand; accessibility and environment; institutional arrangements and public finance. This course is not eligible for Credit/D/Fail grading.

With the approval of the Chair of the program. This course is not eligible for Credit/D/Fail grading.

Topics include the relationship between transportation and urban activity systems; analysis of supply and demand; accessibility and environment; institutional arrangements and public finance. This course is not eligible for Credit/D/Fail grading.

Course topics include issues such as the relationship between transportation and urban activity systems; analysis of supply and demand; accessibility and environment; institutional arrangements and public finance. This course is not eligible for Credit/D/Fail grading.

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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>Credit</th>
<th>Roster</th>
<th>Mode</th>
<th>Day</th>
<th>Time</th>
<th>Instructor</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>POLI_V 100</td>
<td>Introduction to Politics</td>
<td>3</td>
<td>100</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>549</td>
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<td>5:00 a.m. - 7:00 a.m.</td>
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<td>Tue Thu</td>
<td>1:00 p.m. - 4:00 p.m.</td>
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<th>Location</th>
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<tr>
<th>Course Code</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Description</th>
<th>Format</th>
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<tr>
<td>POLI_V 101-L1A</td>
<td>101</td>
<td>Mon 9:00 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>The Government of Canada</td>
<td>An examination of the institutions and processes of Canadian government.</td>
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<td>POLI_V 101-L1B</td>
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<td>Tue 10:00 a.m. - 11:00 a.m.</td>
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<td>The Government of Canada</td>
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<td>Wed 11:00 a.m. - 12:00 p.m.</td>
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<td>POLI_V 101-L1E</td>
<td>101</td>
<td>Fri 1:00 p.m. - 2:00 p.m.</td>
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<td>101</td>
<td>Mon 9:30 a.m. - 10:30 a.m.</td>
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<td>POLI_V 101-L1G</td>
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<td>The Government of Canada</td>
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<td>POLI_V 101-L1H</td>
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<td>POLI_V 101-L1I</td>
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<td>POLI_V 101-L1K</td>
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<td>POLI_V 101-L2B</td>
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<td>POLI_V 110-001</td>
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<td>Investigating Politics: An Introduction to Scientific Political Analysis</td>
<td>W1</td>
<td>The logic, challenges, and major strategies of empirical political research. Core research tasks including: asking answerable questions, defining concepts, formulating hypotheses, gathering evidence, measuring variables, constructing comparisons, drawing causal inferences, and reporting findings.</td>
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<td>POLI_V 110-002</td>
<td>110</td>
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<td>Investigating Politics: An Introduction to Scientific Political Analysis</td>
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<td>The logic, challenges, and major strategies of empirical political research. Core research tasks including: asking answerable questions, defining concepts, formulating hypotheses, gathering evidence, measuring variables, constructing comparisons, drawing causal inferences, and reporting findings.</td>
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<td>POLI_V 110-004</td>
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<td>Instructor</td>
<td>Room</td>
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Investigating Politics: An Introduction to Scientific Political Analysis

110-L2G
Investigating Politics: An Introduction to Scientific Political Analysis

110-L2H
Investigating Politics: An Introduction to Scientific Political Analysis

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Investigating Politics: An Introduction to Scientific Political Analysis

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Investigating Politics: An Introduction to Scientific Political Analysis

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Investigating Politics: An Introduction to Scientific Political Analysis

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Investigating Politics: An Introduction to Scientific Political Analysis

110-L2Y
Investigating Politics: An Introduction to Scientific Political Analysis

110-L2Z
Investigating Politics: An Introduction to Scientific Political Analysis

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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In Person Learning
Introduction to Global Politics
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Wed
11:00 a.m. - 12:00 p.m.
2:00 p.m. - 3:30 p.m.

240
11:00 a.m. - 12:00 p.m.

L2K
L1A
260
2:00 p.m. - 3:30 p.m.

Introduction to Global Politics
Wed
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L2C

Currents of Political Thought
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Wed
240
Currents of Political Thought

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In Person Learning
W2

In Person Learning
Wed

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

W2

6:00 p.m. - 7:30 p.m.

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

L2I
W1-2

W2

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

3:30 p.m. - 4:30 p.m.

L2F
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Currents of Political Thought
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In Person Learning

Fri

Introduction to Global Politics
Fri

In Person Learning

6:00 p.m. - 7:30 p.m.

L2I
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Wed

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

L2C
W1-2

Wed

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

L2C
W1-2

Wed

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

L2C
W1-2

Wed

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

L2C
W1-2

Wed

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

L2C
W1-2

Wed

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

L2C
W1-2

Wed

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

L2C
W1-2

Wed

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

L2C
W1-2

Wed

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

In Person Learning
Mon 4:00 p.m. - 5:00 p.m.

POLI_V_260-L3B
POLI_V 260 L3B Introduction to Global Politics W2 Applies conceptual tools to topics such as war, conflict management, the global economy, poverty, and civil society. Prerequisite: Second-year standing or above OR the completion of POLI 100, 101, and 110 required all of POLI 100, POLI 101, POLI 110.

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

POLI_V_260-L3C
POLI_V 260 L3C Introduction to Global Politics W3 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.

In Person Learning
Thu 3:30 p.m. - 4:30 p.m.

POLI_V_260-L3D
POLI_V 260 L3D Introduction to Global Politics W2 Applies conceptual tools to topics such as war, conflict management, the global economy, poverty, and civil society. Prerequisite: Second-year standing or above OR the completion of POLI 100, 101, and 110 required all of POLI 100, POLI 101, POLI 110.

In Person Learning
Wed 5:00 a.m. - 10:10 a.m.
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 are drawn from Canada and other countries. Prerequisite: Any of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.

Introduction to Global Politics

- Theory and practice of Canadian federalism, its relationship to public policy, cultural pluralism, social stresses, and role of the courts. Prerequisite: Any of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.

Introduction to Global Politics

- The distinctive political system of the U.S. Covers all major institutions and processes, focusing on contemporary issues, such as the quality and diversity of democratic institutions. Prerequisite: Any of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.

Introduction to Global 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 reforms. Prerequisite: Any of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.

Introduction to Global Politics

- The political system of contemporary Southeast Asia. Prerequisite: Any of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.

Introduction to Global 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 reforms. Prerequisite: Any of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.

Introduction to Global Politics

- An examination of a major issue in comparative politics (e.g., the media, gender, nationalism, ethnic conflict). Topics will vary from year to year. Prerequisite: Any of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.

Introduction to Global Politics

- An examination of a major issue in comparative politics (e.g., the media, gender, nationalism, ethnic conflict). Topics will vary from year to year. Prerequisite: Any of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.

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Introduction to Global Politics

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Introduction to Global Politics

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Introduction to Global 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 reforms. Prerequisite: Any of POLI 100, POLI 101, POLI 110, POLI 240. Or third-year standing or higher.
Topics may include freedom, colonialism, capitalism, Critical Theory and ideologies, power and knowledge, social justice, rationalism, gender and identity politics, and the political. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.

The contemporary international security context: reorientation of the study of security, patterns of inter- and intrastate conflict and communal violence, dilemmas of international response and conflict management. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.

The contemporary international security context: reorientation of the study of security, patterns of inter- and intrastate conflict and communal violence, dilemmas of international response and conflict management. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.

Domestic and international determinants of environmental policy; alternative approaches to environmental protection. The sustainable development paradigm; public opinion and interest group pressure; risk assessment; voluntary and mandatory market-based policy instruments. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.

The role of gender in Western political theory and the implications for the practice of politics. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.
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<tr>
<th>Course Code</th>
<th>CRN</th>
<th>Type</th>
<th>Title</th>
<th>Description</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Notes</th>
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<tbody>
<tr>
<td>POLI V 375</td>
<td>A_001</td>
<td>W2</td>
<td>Quantitative Methods in Political Science</td>
<td>The development of peacekeeping within and outside the United Nations system and as an instrument of conflict management. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.</td>
<td>4:00 p.m. - 7:00 p.m.</td>
<td>Tue</td>
<td>B_001</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>POLI V 376</td>
<td>A_001</td>
<td>W1</td>
<td>Managing Quantitative Data in Political Science</td>
<td>An introduction to quantitative methods as utilized in the study of Political Science. Not available for credit to the Faculty of Commerce and Business Administration. This course is not eligible for Credit/D/Fail grading. Prerequisite: POLI 110. Third-year standing or higher OR the completion of POLI 210, 211, and 240 required.</td>
<td>4:00 p.m. - 7:00 p.m.</td>
<td>Wed</td>
<td>A_002</td>
<td>In Person Learning</td>
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<tr>
<td>POLI V 377</td>
<td>A_001</td>
<td>W1</td>
<td>International Law</td>
<td>The nature, sources, and sanctions of international law; the notion of nationhood with particular reference to the status of the British Dominions; territorial and extra-territorial jurisdiction; diplomatic and consular immunities; international delinquency; treaties; settlement of disputes; international organizations. This course may not be taken for credit in both Arts and law. Credit will be granted for only one of POLI 176 or LAW 216. Prerequisite: All of POLI 100, POLI 101, POLI 130, POLI 240. Or third-year standing or higher.</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Tue</td>
<td>B_001</td>
<td>In Person Learning</td>
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<tr>
<td>POLI V 378</td>
<td>A_001</td>
<td>W2</td>
<td>The Politics of Terrorism</td>
<td>Exploration of contemporary terrorism as a contested area of understanding and as a social construct. Includes origins and motives, evolution of terrorist groups, strategies and tactics, and anti-terrorism and counter terrorism responses. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.</td>
<td>12:30 p.m. - 2:00 p.m.</td>
<td>Wed</td>
<td>A_002</td>
<td>In Person Learning</td>
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<tr>
<td>POLI V 378</td>
<td>A_002</td>
<td>W2</td>
<td>The Politics of Terrorism</td>
<td>Exploration of contemporary terrorism as a contested area of understanding and as a social construct. Includes origins and motives, evolution of terrorist groups, strategies and tactics, and anti-terrorism and counter terrorism responses. Prerequisite: All of POLI 100, POLI 101, POLI 240. Or third-year standing or higher.</td>
<td>11:00 a.m. - 12:30 p.m.</td>
<td>Thu</td>
<td>A_002</td>
<td>In Person Learning</td>
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<tr>
<td>POLI V 378</td>
<td>A_002</td>
<td>W2</td>
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<td>Thu</td>
<td>A_002</td>
<td>In Person Learning</td>
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<td>Tue</td>
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<td>11:00 a.m. - 12:30 p.m.</td>
<td>Thu</td>
<td>A_002</td>
<td>In Person Learning</td>
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<tr>
<td>POLI V 379</td>
<td>A_002</td>
<td>W2</td>
<td>Issues in Comparative Politics</td>
<td>The relationship between policy, economics, and development. The role of the state, political institutions, economic policy, and foreign aid in development strategies. Restricted to students in fourth-year standing or higher. This course is not eligible for Credit/D/Fail grading.</td>
<td>9:30 a.m. - 11:00 a.m.</td>
<td>Tue</td>
<td>B_001</td>
<td>In Person Learning</td>
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<tr>
<td>POLI V 379</td>
<td>A_001</td>
<td>W1</td>
<td>Issues in Comparative Politics</td>
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<tr>
<td>POLI V 380</td>
<td>A_001</td>
<td>W1</td>
<td>Selected Problems in Comparative Politics</td>
<td>An interdisciplinary study of best practice, politics, and ethics associated with technical solutions to humanitarian assistance within Canada and abroad, examenes policies used in aid and development contexts with emphasis on the application of engineering. Restricted to students with a Major, Combined Major, Honours, Honours with, or Master specialization in Political Science or International Relations, or at least third-year standing in any BASc program. Credit will be granted for only one of POLI 377 or APSC 377. Equivalency: APSC 377.</td>
<td>4:00 p.m. - 7:00 p.m.</td>
<td>Tue</td>
<td>B_001</td>
<td>In Person Learning</td>
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<tr>
<td>POLI V 380</td>
<td>A_002</td>
<td>W2</td>
<td>Selected Problems in Comparative Politics</td>
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<td>Tue</td>
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<td>Course Code</td>
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<td>POLI_V 514-A-002</td>
<td>A</td>
<td>3</td>
<td>Politics and Economic Growth</td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>POLI_V 496-A-001</td>
<td>A</td>
<td>3</td>
<td>Advanced Topics in International Relations</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>POLI_V 511-A-001</td>
<td>A</td>
<td>1</td>
<td>Core Seminar in Comparative Government and Politics</td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>POLI_V 513-A-002</td>
<td>A</td>
<td>3</td>
<td>Comparative Western Governments</td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<tr>
<td>POLI_V 513-A-001</td>
<td>A</td>
<td>3</td>
<td>Comparative Western Governments</td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<th>Title</th>
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<th>Days</th>
<th>Time</th>
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<tr>
<td>POLI_V 521-B_001</td>
<td>521</td>
<td>B</td>
<td>Political Theory</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>POLI_V 523-A_001</td>
<td>523</td>
<td>A</td>
<td>Political Thought</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>POLI_V 523-B_001</td>
<td>523</td>
<td>B</td>
<td>Political Thought</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<td>POLI_V 523-B_002</td>
<td>523</td>
<td>B</td>
<td>Political Thought</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>POLI_V 547-A_001</td>
<td>547</td>
<td>A</td>
<td>Topics in Political Theory</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>POLI_V 549-A_001</td>
<td>549</td>
<td>A</td>
<td>Master's Thesis</td>
<td>In Person Learning</td>
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<tr>
<td>POLI_V 549-B_001</td>
<td>549</td>
<td>B</td>
<td>Master's Thesis</td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>POLI_V 549-C_001</td>
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<td>C</td>
<td>Master's Thesis</td>
<td>In Person Learning</td>
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<tr>
<td>POLI_V 551-B_001</td>
<td>551</td>
<td>B</td>
<td>Elections, Parties and Voters</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>POLI_V 561-A_001</td>
<td>561</td>
<td>A</td>
<td>Core Seminar in International Relations Theory</td>
<td>In Person Learning</td>
<td>Mon</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>POLI_V 562-A_001</td>
<td>562</td>
<td>A</td>
<td>Topics in International Relations</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>POLI_V 562-D_001</td>
<td>562</td>
<td>D</td>
<td>Topics in International Relations</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>POLI_V 570-A_001</td>
<td>570</td>
<td>A</td>
<td>Qualitative Methods of Political Analysis</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>POLI_V 572-A_001</td>
<td>572</td>
<td>A</td>
<td>Quantitative Techniques of Political Analysis</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>POLI_V 572-B_001</td>
<td>572</td>
<td>B</td>
<td>Quantitative Techniques of Political Analysis</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>POLI_V 580-A_001</td>
<td>580</td>
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<td>POLI_V 649-A_001</td>
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<td>POLI_V 101-101</td>
<td>101</td>
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<td>Learning Polish: Foundations I</td>
<td>Multi-access Learning</td>
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<tr>
<td>POLI_V 102-201</td>
<td>102</td>
<td>201</td>
<td>Learning Polish: Foundations II</td>
<td>Multi-access Learning</td>
<td>Arranged</td>
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</table>
The German Nazi Holocaust in Polish Literature and Film.

Topics in Public Policy and Global Affairs

Fundamental principles of economics applied to public policy and global affairs. Credit will be granted for only one of PPGA 500 or both GPP 501, GPP 502. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.

Fundamental principles of economics applied to public policy and global affairs. Credit will be granted for only one of PPGA 500 or both GPP 501, GPP 502. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.

Introduction to the Analysis of Portuguese and Brazilian Cultures (In English)

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 202 or RMST 260. Equivalency: RMST 260.

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 202 or RMST 260. Equivalency: RMST 260.

Studies in Portuguese and Brazilian Literature (In English)

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 202 or RMST 260. Equivalency: RMST 260.
Policy in Context

2:00 p.m. - 3:30 p.m.

Domestic and Global Policy Processes

In Person Learning

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

Policy in Context

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

Domestic and Global Policy Processes

In Person Learning

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

Policy in Context

2:00 p.m. - 3:30 p.m.

Research Design and Qualitative Methods

In Person Learning

Thu 8:00 a.m. - 10:30 a.m.

Policy in Context

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

In Person Learning

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

Leadership for Policy Professionals

In Person Learning

Mon 9:00 a.m. - 10:30 a.m.

In Person Learning

Arranged

Aranged

Economics of Poverty

In Person Learning

Mon 9:00 a.m. - 12:00 p.m.

Development and Institutions

In Person Learning

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

Emerging Powers

In Person Learning

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

Policy Dimensions of Energy Systems

In Person Learning

Fri 8:30 a.m. - 10:30 a.m.

Science, Technology, and Public Policy

In Person Learning

Tue Thu 1:30 p.m. - 5:00 p.m.

Economic Foundations of Environmental Policies

In Person Learning

Thu 8:30 a.m. - 12:30 p.m.

Asia Policy Practice

In Person Learning

Thu 2:00 p.m. - 3:30 p.m.

Global Governance: Frameworks and Policy Debates

In Person Learning

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

Resource Governance, Environment and Human Security

In Person Learning

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

Nations, Religion, and Ethnic Conflict in Asia

In Person Learning

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

Asia Diplomacy and International Relations

In Person Learning

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

Human Rights and Justice

In Person Learning

Tue 2:00 p.m. - 5:00 p.m.
Key issues, institutions and debates in global economic policy making. This course is not eligible for Credit/D/Fail grading.

Global Health Policy

Students will explore the impact of current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.

Internet and Global Affairs

Students will explore the impact of current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.

Global Economic Policy Project

Professional team-based project that incorporates training, feedback on project proposals, possible field work, engagement with client organizations, data gathering and analysis, and a major deliverable such as a policy report. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.

Global Policy Project

Professional team-based project that incorporates training, feedback on project proposals, possible field work, engagement with client organizations, data gathering and analysis, and a major deliverable such as a policy report. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.

Global Policy Project

Professional team-based project that incorporates training, feedback on project proposals, possible field work, engagement with client organizations, data gathering and analysis, and a major deliverable such as a policy report. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.

Global Economic Policy

Professional team-based project that incorporates training, feedback on project proposals, possible field work, engagement with client organizations, data gathering and analysis, and a major deliverable such as a policy report. Restricted to students in the Master of Public and Global Affairs. This course is not eligible for Credit/D/Fail grading.

International Climate Change

Climate science and impacts including: carbon management options; mitigation and energy system changes; efficiency options; wind or solar; resilience, vulnerability and adaptation to climate change; carbon economics and organization-level strategies in a carbon-constrained world. This course is not eligible for Credit/D/Fail grading.

Special Topics in Public Policy

Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.

Special Topics in Public Policy

Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.

Special Topics in Public Policy

Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.

Special Topics in Public Policy

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Special Topics in Public Policy

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Special Topics in Public Policy

Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.

Special Topics in Public Policy

Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.
<table>
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<th>Course Code</th>
<th>Type</th>
<th>Title</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Location</th>
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<tr>
<td>PSYC_V 101-001</td>
<td>In Person Learning</td>
<td>Introduction to Biological and Cognitive Psychology</td>
<td>W1</td>
<td>5:00 p.m. - 8:00 p.m.</td>
<td>W1</td>
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<tr>
<td>PSYC_V 101-002</td>
<td>In Person Learning</td>
<td>Introduction to Biological and Cognitive Psychology</td>
<td>W1</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>W1</td>
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<tr>
<td>PSYC_V 101-003</td>
<td>In Person Learning</td>
<td>Introduction to Biological and Cognitive Psychology</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>PSYC_V 101-004</td>
<td>In Person Learning</td>
<td>Introduction to Biological and Cognitive Psychology</td>
<td>W1</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>PSYC_V 101-005</td>
<td>In Person Learning</td>
<td>Introduction to Biological and Cognitive Psychology</td>
<td>W1</td>
<td>5:00 p.m. - 8:00 p.m.</td>
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<td>PSYC_V 101-006</td>
<td>In Person Learning</td>
<td>Introduction to Biological and Cognitive Psychology</td>
<td>W1</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>W1</td>
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<tr>
<td>PSYC_V 101-007</td>
<td>In Person Learning</td>
<td>Introduction to Biological and Cognitive Psychology</td>
<td>W1</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>PSYC_V 101-008</td>
<td>In Person Learning</td>
<td>Introduction to Biological and Cognitive Psychology</td>
<td>W1</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>PSYC_V 101-009</td>
<td>In Person Learning</td>
<td>Introduction to Biological and Cognitive Psychology</td>
<td>W1</td>
<td>5:00 p.m. - 8:00 p.m.</td>
<td>W1</td>
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<tr>
<td>PSYC_V 101-001</td>
<td>In Person Learning</td>
<td>Professional Skills in Public Policy and Global Affairs</td>
<td>W2</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>W2</td>
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<tr>
<td>PSYC_V 101-002</td>
<td>In Person Learning</td>
<td>Professional Skills in Public Policy and Global Affairs</td>
<td>W2</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<td>PSYC_V 101-003</td>
<td>In Person Learning</td>
<td>Professional Skills in Public Policy and Global Affairs</td>
<td>W2</td>
<td>12:00 p.m. - 1:00 p.m.</td>
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<td>PSYC_V 101-004</td>
<td>In Person Learning</td>
<td>Professional Skills in Public Policy and Global Affairs</td>
<td>W2</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<td>PSYC_V 101-005</td>
<td>In Person Learning</td>
<td>Professional Skills in Public Policy and Global Affairs</td>
<td>W2</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<td>PSYC_V 101-006</td>
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<td>Professional Skills in Public Policy and Global Affairs</td>
<td>W2</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<td>PSYC_V 101-007</td>
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<td>Professional Skills in Public Policy and Global Affairs</td>
<td>W2</td>
<td>5:00 p.m. - 8:00 p.m.</td>
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<td>PSYC_V 101-001</td>
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<td>Special Topics in Policy</td>
<td>W1</td>
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<td>PSYC_V 101-002</td>
<td>In Person Learning</td>
<td>Special Topics in Policy</td>
<td>W1</td>
<td>11:00 a.m. - 12:00 p.m.</td>
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<td>Special Topics in Policy</td>
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<td>Special Topics in Policy</td>
<td>W1</td>
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<td>PSYC_V 101-006</td>
<td>In Person Learning</td>
<td>Special Topics in Policy</td>
<td>W1</td>
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<td>PSYC_V 101-007</td>
<td>In Person Learning</td>
<td>Special Topics in Policy</td>
<td>W1</td>
<td>5:00 p.m. - 8:00 p.m.</td>
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Credit will be granted for only one of PSYC 100 and PSYC 101 and PSYC 102.

Introduction to methods and statistics, biopsychology, learning, perception, memory, cognition, motivation, assessment, developmental, personality, clinical, and social psychology. Credit will be granted for only one of PSYC 100 and PSYC 101.

Topics will vary from year to year. Offerings will respond to evolving skills required for working in the field of public policy and global affairs. Restricted to students in the MPPGA program.

Offerings respond to current policy debates, topics of emerging interest, availability of visiting scholars, and interest in non-traditional courses incorporating practitioner expertise, interest in particular disciplinary perspectives missing from core courses and electives, and interest in specific regions or countries. This course is not eligible for Credit/D/Fail grading.
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<th>Location</th>
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<tr>
<td>PSYC V 217</td>
<td>Research Methods</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
<td>3.00</td>
<td>Micro Wed Fri</td>
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<tr>
<td>PSYC V 217</td>
<td>Questioning Psychological Science in the Media</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>3.00</td>
<td>Arranged</td>
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<td>PSYC V 217</td>
<td>Contemporary Topics in Biological and Cognitive Psychology</td>
<td>9:30 a.m. - 10:00 a.m.</td>
<td>Online Learning</td>
<td>3.00</td>
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<td>PSYC V 216</td>
<td>Introduction to Developmental, Social, Personality, and Clinical Psychology</td>
<td>9:30 a.m. - 10:00 a.m.</td>
<td>In Person Learning</td>
<td>3.00</td>
<td>Micro Wed Fri</td>
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<td>PSYC V 216</td>
<td>Introduction to Developmental, Social, Personality, and Clinical Psychology</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>3.00</td>
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<td>PSYC V 216</td>
<td>Introduction to Developmental, Social, Personality, and Clinical Psychology</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>3.00</td>
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<td>PSYC V 216</td>
<td>Introduction to Developmental, Social, Personality, and Clinical Psychology</td>
<td>3:00 p.m. - 4:00 p.m.</td>
<td>In Person Learning</td>
<td>3.00</td>
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<td>PSYC V 216</td>
<td>Introduction to Developmental, Social, Personality, and Clinical Psychology</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
<td>3.00</td>
<td>Arranged</td>
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<td>PSYC V 216</td>
<td>Introduction to Developmental, Social, Personality, and Clinical Psychology</td>
<td>5:00 p.m. - 6:00 p.m.</td>
<td>In Person Learning</td>
<td>3.00</td>
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<td>PSYC V 216</td>
<td>Introduction to Developmental, Social, Personality, and Clinical Psychology</td>
<td>6:00 p.m. - 7:00 p.m.</td>
<td>In Person Learning</td>
<td>3.00</td>
<td>Arranged</td>
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<td>PSYC V 216</td>
<td>Introduction to Developmental, Social, Personality, and Clinical Psychology</td>
<td>7:00 p.m. - 8:00 p.m.</td>
<td>In Person Learning</td>
<td>3.00</td>
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PSYC 217-005
PSYC_V

217
005
Research Methods

In Person Learning
Tue Thu
3:30 p.m. - 5:00 p.m.

This course is not eligible for Credit/D/Fail grading. Corequisite: Either PSYC 218, PSYC 278, BIOL 300, COMM 291, ECON 325, ECON 327, EPSE 482, FRST 231, GEOG 374, KIN 371, POLI 380, SOCI 328, STAT 200, STAT 203. Restricted to students in one of PSYC Major, BA COGS Major. 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. 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.

PSYC 217-006
PSYC_V

217
006
Research Methods

In Person Learning
Tue Thu
3:30 p.m. - 5:00 p.m.

This course is not eligible for Credit/D/Fail grading. Corequisite: Either PSYC 218, PSYC 278, BIOL 300, COMM 291, ECON 325, ECON 327, EPSE 482, FRST 231, GEOG 374, KIN 371, POLI 380, SOCI 328, STAT 200, STAT 203. Restricted to students in one of PSYC Major, BA COGS Major. 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. 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.

PSYC 217-007
PSYC_V

217
007
Research Methods

In Person Learning
Tue Thu
3:30 p.m. - 5:00 p.m.

This course is not eligible for Credit/D/Fail grading. Corequisite: Either PSYC 218, PSYC 278, BIOL 300, COMM 291, ECON 325, ECON 327, EPSE 482, FRST 231, GEOG 374, KIN 371, POLI 380, SOCI 328, STAT 200, STAT 203. Restricted to students in one of PSYC Major, BA COGS Major. 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. 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.

PSYC 217-008
PSYC_V

217
008
Research Methods

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

This course is not eligible for Credit/D/Fail grading. Corequisite: Either PSYC 218, PSYC 278, BIOL 300, COMM 291, ECON 325, ECON 327, EPSE 482, FRST 231, GEOG 374, KIN 371, POLI 380, SOCI 328, STAT 200, STAT 203. Restricted to students in one of PSYC Major, BA COGS Major. 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. 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.

PSYC 217-009
PSYC_V

217
009
Research Methods

In Person Learning
Wed
11:00 a.m. - 2:00 p.m.

This course is not eligible for Credit/D/Fail grading. Corequisite: Either PSYC 218, PSYC 278, BIOL 300, COMM 291, ECON 325, ECON 327, EPSE 482, FRST 231, GEOG 374, KIN 371, POLI 380, SOCI 328, STAT 200, STAT 203. Restricted to students in one of PSYC Major, BA COGS Major. 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.
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<th>Course Code</th>
<th>Course Title</th>
<th>Type</th>
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<th>Notes</th>
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<tbody>
<tr>
<td>PSYC 318-010</td>
<td>Analysis of Behavioural Data</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue Thu 3:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>PSYC 318-001</td>
<td>Behavioural and Neuroscientific Research Methods</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Wed 5:00 p.m. - 8:00 p.m.</td>
</tr>
<tr>
<td>PSYC 277-001</td>
<td>Analysis of Behavioural Data</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue Thu 3:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>PSYC 277-002</td>
<td>Behavioural and Neuroscientific Research Methods</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Wed 3:00 p.m. - 6:00 p.m.</td>
</tr>
<tr>
<td>PSYC 277-003</td>
<td>Analysis of Behavioural Data</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Thu 2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>PSYC 277-004</td>
<td>Behavioural and Neuroscientific Research Methods</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Fri 12:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PSYC 278-001</td>
<td>Analysis of Behavioural and Neuroscientific Data</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue Thu 1:30 p.m. - 1:30 p.m.</td>
</tr>
<tr>
<td>PSYC 278-002</td>
<td>Analysis of Behavioural and Neuroscientific Data</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue Thu 1:30 p.m. - 1:30 p.m.</td>
</tr>
<tr>
<td>PSYC 278-003</td>
<td>Analysis of Behavioural and Neuroscientific Data</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue Thu 1:30 p.m. - 1:30 p.m.</td>
</tr>
<tr>
<td>PSYC 278-004</td>
<td>Analysis of Behavioural and Neuroscientific Data</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue Thu 1:30 p.m. - 1:30 p.m.</td>
</tr>
<tr>
<td>PSYC 300-001</td>
<td>Abnormal Psychology</td>
<td>W1</td>
<td>Online Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>PSYC 300-002</td>
<td>Abnormal Psychology</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed 4:00 p.m. - 7:00 p.m.</td>
</tr>
<tr>
<td>PSYC 300-003</td>
<td>Abnormal Psychology</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed 4:00 p.m. - 7:00 p.m.</td>
</tr>
<tr>
<td>PSYC 300-004</td>
<td>Abnormal Psychology</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed 4:00 p.m. - 7:00 p.m.</td>
</tr>
<tr>
<td>PSYC 300-005</td>
<td>Abnormal Psychology</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed 4:00 p.m. - 7:00 p.m.</td>
</tr>
<tr>
<td>PSYC 300-006</td>
<td>Abnormal Psychology</td>
<td>W1</td>
<td>Online Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>PSYC 301-001</td>
<td>Brain Dysfunction and Recovery</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue Thu 12:30 p.m. - 2:00 p.m.</td>
</tr>
</tbody>
</table>
PSYC 301-003 PSYC_V
301 003 Brain Dysfunction and Recovery W2
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 Tue
8:30 a.m. - 11:00 a.m.

PSYC 301-004 PSYC_V
301 004 Brain Dysfunction and Recovery W2
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 Tue
12:00 p.m. - 2:00 p.m.

PSYC 301-005 PSYC_V
301 005 Brain Dysfunction and Recovery W3
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 Tue
2:00 p.m. - 4:10 p.m.

PSYC 301-006 PSYC_V
301 006 Brain Dysfunction and Recovery W1
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.

PSYC 301-007 PSYC_V
301 007 Brain Dysfunction and Recovery W2
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. - 7:10 p.m.

PSYC 302-001 PSYC_V
302 001 Infancy W1
Human cognition, perception, motor, social, emotional needs, brain development and their interactions from birth until the emergence of language. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Restricted to students with second-year standing or higher.
In Person Learning Tue Thu
3:00 p.m. - 5:00 p.m.

PSYC 302-002 PSYC_V
302 002 Infancy W1
Human cognition, perception, motor, social, emotional needs, brain development and their interactions from birth until the emergence of language. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Restricted to students with second-year standing or higher.
In Person Learning Mon Wed Fri
1:00 p.m. - 2:00 p.m.

PSYC 302-003 PSYC_V
302 003 Infancy W1
Human cognition, perception, motor, social, emotional needs, brain development and their interactions from birth until the emergence of language. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Restricted to students with second-year standing or higher.
In Person Learning Tue Thu
3:30 p.m. - 5:00 p.m.

PSYC 302-004 PSYC_V
302 004 Infancy W2
Human cognition, perception, motor, social, emotional needs, brain development and their interactions from birth until the emergence of language. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Restricted to students with second-year standing or higher.
In Person Learning Tue Thu
2:00 p.m. - 3:10 p.m.

PSYC 302-005 PSYC_V
302 005 Infancy W2
Human cognition, perception, motor, social, emotional needs, brain development and their interactions from birth until the emergence of language. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Restricted to students with second-year standing or higher.
In Person Learning Tue Thu
3:30 p.m. - 5:00 p.m.

PSYC 302-006 PSYC_V
302 006 Infancy W2
Human cognition, perception, motor, social, emotional needs, brain development and their interactions from birth until the emergence of language. Strongly recommended: PSYC 101, 102, and one of PSYC 216, PSYC 217, or 277. Restricted to students with second-year standing or higher.
In Person Learning Wed
5:00 p.m. - 8:00 p.m.

PSYC 303-001 PSYC_V
303 001 Tests and Measurements W1
Theory and practice of psychological measurement, statistical models for items and tests, assessment of test reliability and validity, factor analysis, scoring. Restricted to students with second-year standing or higher.
Prerequisite: One of PSYC 218, PSYC 276.
In Person Learning Thu Tue
11:00 a.m. - 1:30 p.m.

PSYC 303-002 PSYC_V
303 002 Tests and Measurements W2
Theory and practice of psychological measurement, statistical models for items and tests, assessment of test reliability and validity, factor analysis, scoring. Restricted to students with second-year standing or higher.
Prerequisite: One of PSYC 218, PSYC 276.
In Person Learning Tue Thu
9:30 a.m. - 11:00 a.m.

PSYC 303-003 PSYC_V
303 003 Tests and Measurements W1
Theory and practice of psychological measurement, statistical models for items and tests, assessment of test reliability and validity, factor analysis, scoring. Restricted to students with second-year standing or higher.
Prerequisite: One of PSYC 218, PSYC 276.
In Person Learning Wed
11:00 a.m. - 1:30 p.m.

PSYC 303-004 PSYC_V
303 004 Tests and Measurements W1
Theory and practice of psychological measurement, statistical models for items and tests, assessment of test reliability and validity, factor analysis, scoring. Restricted to students with second-year standing or higher.
Prerequisite: One of PSYC 218, PSYC 276.
In Person Learning Mon Wed Fri
3:00 p.m. - 5:00 p.m.

PSYC 303-005 PSYC_V
303 005 Tests and Measurements W1
Theory and practice of psychological measurement, statistical models for items and tests, assessment of test reliability and validity, factor analysis, scoring. Restricted to students with second-year standing or higher.
Prerequisite: One of PSYC 218, PSYC 276.
In Person Learning Mon Wed Fri
11:00 a.m. - 1:30 p.m.

PSYC 303-006 PSYC_V
303 006 Tests and Measurements W1
Theory and practice of psychological measurement, statistical models for items and tests, assessment of test reliability and validity, factor analysis, scoring. Restricted to students with second-year standing or higher.
Prerequisite: One of PSYC 218, PSYC 276.
In Person Learning Mon Wed Fri
3:00 p.m. - 5:00 p.m.

PSYC 304-001 PSYC_V
304 B B_001 Brain and Behaviour W1-2
The neurological bases of behaviour; brain processes involved in perception, motivation, emotion, psychopathology, learning and memory. A maximum of 6 credits can be granted for either PSYC 304 or PSYC 370 and 371. Strongly recommended: PSYC 101 and one of PSYC 216, PSYC 217, PSYC 277. Restricted to all Arts and Science students with second-year standing or higher, excluding those in the B.Sc. Behavioural Neuroscience or B.Sc. Neuroscience specializations.
In Person Learning Thu
9:30 a.m. - 11:00 a.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Location</th>
<th>Days</th>
<th>Time</th>
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<tr>
<td>PSYC_V 308-003</td>
<td>Social Psychology</td>
<td>W2</td>
<td>Mon Wed Fri</td>
<td>002</td>
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<tr>
<td>PSYC_V 308-004</td>
<td>Social Psychology</td>
<td>W2</td>
<td>Mon Wed Fri</td>
<td>004</td>
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<tr>
<td>PSYC_V 308-001</td>
<td>Cognitive Processes</td>
<td>W1</td>
<td>Tue Thu</td>
<td>001</td>
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<tr>
<td>PSYC_V 308-002</td>
<td>Cognitive Processes</td>
<td>W2</td>
<td>Tue Thu</td>
<td>002</td>
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<tr>
<td>PSYC_V 308-003</td>
<td>Cognitive Processes</td>
<td>W2</td>
<td>Tue Thu</td>
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<tr>
<td>PSYC_V 311-001</td>
<td>Psychology of Sport</td>
<td>W1</td>
<td>Tue Thu</td>
<td>001</td>
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<tr>
<td>PSYC_V 311-004</td>
<td>Psychology of Sport</td>
<td>W2</td>
<td>Tue Thu</td>
<td>004</td>
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<tr>
<td>PSYC_V 311-005</td>
<td>Psychology of Sport</td>
<td>W2</td>
<td>Tue Thu</td>
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<td>PSYC_V 311-006</td>
<td>Psychology of Sport</td>
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<td>Tue Thu</td>
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<tr>
<td>PSYC_V 314-001</td>
<td>Health Psychology</td>
<td>W1</td>
<td>Tue Thu</td>
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<td>PSYC_V 314-002</td>
<td>Health Psychology</td>
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<td>Tue Thu</td>
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<td>Tue Thu</td>
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<td>PSYC_V 314-004</td>
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<td>W2</td>
<td>Tue Thu</td>
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<td>PSYC_V 314-005</td>
<td>Health Psychology</td>
<td>W1</td>
<td>Tue Thu</td>
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<tr>
<td>PSYC_V 314-006</td>
<td>Health Psychology</td>
<td>W1</td>
<td>Tue Thu</td>
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<tr>
<td>PSYC_V 315-001</td>
<td>Childhood and Adolescence</td>
<td>W1</td>
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<td>PSYC_V 315-002</td>
<td>Childhood and Adolescence</td>
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<td>Tue Thu</td>
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<tr>
<td>PSYC_V 315-004</td>
<td>Childhood and Adolescence</td>
<td>W1</td>
<td>Tue Thu</td>
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<td>PSYC_V 315-005</td>
<td>Childhood and Adolescence</td>
<td>W2</td>
<td>Tue Thu</td>
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<tr>
<td>PSYC_V 315-101</td>
<td>Childhood and Adolescence</td>
<td>W1</td>
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<tr>
<td>PSYC_V 315-102</td>
<td>Childhood and Adolescence</td>
<td>W1</td>
<td>Tue Thu</td>
<td>102</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.

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.

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.

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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.
Human development from the preschool period through adolescence. Strongly recommended: PSYC 101, 102 and PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.

Human development from the preschool period through adolescence. Strongly recommended: PSYC 101, 102 and PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.

Applications of theories and research in developmental psychology to contemporary social issues, topics may include depression, child abuse, divorce and remarriage, substance abuse, sexuality. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.

Applications of theories and research in developmental psychology to contemporary social issues, topics may include depression, child abuse, divorce and remarriage, substance abuse, sexuality. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.

Examines human development in the context of the socializing role of media. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.

Examines human development in the context of the socializing role of media. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.

The application of psychological theory and research to legal issues and the criminal justice system. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.

The application of psychological theory and research to legal issues and the criminal justice system. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.

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>Code</th>
<th>Section</th>
<th>Title</th>
<th>Type</th>
<th>Days</th>
<th>Time</th>
<th>Description</th>
<th>Prerequisites</th>
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<tr>
<td>PSYC</td>
<td>333-004</td>
<td>Memory: Historical, Clinical and Cognitive Perspectives</td>
<td>W2</td>
<td></td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>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.</td>
<td>In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PSYC</td>
<td>333-061</td>
<td>Memory: Historical, Clinical and Cognitive Perspectives</td>
<td>W2</td>
<td></td>
<td>2:00 p.m. - 3:30 p.m.</td>
<td>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.</td>
<td>In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PSYC</td>
<td>335-001</td>
<td>Gambling and Decision Making</td>
<td>W1</td>
<td></td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>The psychology of gambling behaviour, with emphasis on relevant work from judgment and decision-making, the cognitive neuroscience of choice, and clinical perspectives on disordered gambling. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.</td>
<td>In Person Learning Mon Wed Fri 12:00 p.m. - 1:30 p.m.</td>
</tr>
<tr>
<td>PSYC</td>
<td>336-001</td>
<td>The Psychology of Language I</td>
<td>W2</td>
<td></td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Psychological abilities underlying human language; language processing, lexical representation, and principles of online communication; animal versus human communication. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.</td>
<td>In Person Learning Mon Wed Fri 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PSYC</td>
<td>336-101</td>
<td>The Psychology of Language I</td>
<td>W2</td>
<td></td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>Psychological abilities underlying human language; language processing, lexical representation, and principles of online communication; animal versus human communication. Strongly recommended: PSYC 101 and one of PSYC 216, 217, or 277. Restricted to students with second-year standing or higher.</td>
<td>In Person Learning Mon Wed Fri 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>PSYC</td>
<td>340-A_002</td>
<td>Directed Studies in Psychology</td>
<td>W1</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</td>
<td>Directed investigation of a research problem, requiring a written report of the findings. Requires the supervisor'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>
<td>In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>PSYC</td>
<td>340-C_003</td>
<td>Directed Studies in Psychology</td>
<td>W2</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</td>
<td>Directed investigation of a research problem, requiring a written report of the findings. Requires the supervisor'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>
<td>In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>PSYC</td>
<td>340-K_001</td>
<td>Directed Studies in Psychology</td>
<td>W1-2</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</td>
<td>Directed investigation of a research problem, requiring a written report of the findings. Requires the supervisor'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>
<td>In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>PSYC</td>
<td>349-001</td>
<td>Honours Seminar</td>
<td>W1-2</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</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, 218.</td>
<td>In Person Learning Tue 12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PSYC</td>
<td>349-002</td>
<td>Honours Seminar</td>
<td>W1-2</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</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, 218.</td>
<td>In Person Learning Tue 12:30 p.m. - 2:00 p.m.</td>
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<tr>
<td>PSYC</td>
<td>350-001</td>
<td>Psychological Aspects of Human Sexuality</td>
<td>W1</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</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>
<td>In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>PSYC</td>
<td>350-002</td>
<td>Psychological Aspects of Human Sexuality</td>
<td>W1</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</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>
<td>In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>PSYC</td>
<td>350-001</td>
<td>Psychological Aspects of Human Sexuality</td>
<td>W1</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</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>
<td>In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>PSYC</td>
<td>350-002</td>
<td>Psychological Aspects of Human Sexuality</td>
<td>W2</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</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>
<td>In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>PSYC</td>
<td>358-001</td>
<td>Evolutionary Psychology</td>
<td>W1</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</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>
<td>In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PSYC</td>
<td>358-002</td>
<td>Evolutionary Psychology</td>
<td>W1</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</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>
<td>In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PSYC</td>
<td>358-003</td>
<td>Evolutionary Psychology</td>
<td>W1</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</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>
<td>In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>PSYC</td>
<td>358-004</td>
<td>Evolutionary Psychology</td>
<td>W1</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</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>
<td>In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.</td>
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<td>PSYC</td>
<td>358-005</td>
<td>Evolutionary Psychology</td>
<td>W1</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</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>
<td>In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.</td>
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<td>PSYC</td>
<td>358-006</td>
<td>Evolutionary Psychology</td>
<td>W1</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</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>
<td>In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.</td>
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<td>PSYC</td>
<td>358-007</td>
<td>Evolutionary Psychology</td>
<td>W1</td>
<td></td>
<td>12:00 p.m. - 1:30 p.m.</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>
<td>In Person Learning Tue Thu 12:30 p.m. - 2:00 p.m.</td>
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**PSYC_V 399-001**  
**PSYC_V 361-001**  
**PSYC_V 363-001**  
**PSYC_V 365-001**  
**PSYC_V 367-001**  
**PSYC_V 388-001**  
**PSYC_V 371-002**  
**PSYC_V 388-B_002**  
**PSYC_V 388-C_003**  
**PSYC_V 388-E_001**  
**PSYC_V 388-B_002**  
**PSYC_V 398-510**  
**PSYC_V 398-610**  
**PSYC_V 399-510**  
**PSYC_V 399-610**  
**PSYC_V 401-001**  
**PSYC_V 401-002**

**Advanced Research Methods in Behavioural Sciences**  
Prepares students for graduate studies or other advanced behavioural research. Experimental design and analysis techniques; laboratory with computer applications. Restricted to students with second-year standing or higher and a cumulative average of at least 76%. Prerequisite: One of PSYC 218, PSYC 219. In Person-Learning  
**Neuroscience of Motivation**  
Experimental analysis of hunger, thirst, exploratory and curiosity behavior, maternal and reproductive behavior, fixed action patterns, and complex processes involved in social motivation with emphasis on the biological basis of motivation. Restricted to students with second-year standing or higher. Prerequisite: One of NGI 201, PSYC 270, PSYC 304, PSYC 310. In Person-Learning  
**Neuroscience of Simple Learning**  
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, B (PSYC 304). In Person-Learning  
**Neuroscience of Simple Learning**  
Current research into human brain systems underlying cognitive processes such as perception, attention, memory, and decision making. Restricted to students with second-year standing or higher. Prerequisite: Either (a) one of PSYC 360, PSYC 364, PSYC 370, PSYC 371 or (b) COGS 220. In Person-Learning  
**Cognitive Neuroscience**  
Current research into human brain systems underlying cognitive processes such as perception, attention, memory, and decision making. Restricted to students with second-year standing or higher. Prerequisite: Either (a) one of PSYC 360, PSYC 364, PSYC 370, PSYC 371 or (b) COGS 220. In Person-Learning  
**Sensory Systems**  
Anatomy and physiology of the sensory pathways and their relation to perception. Credit will be granted for only one of PSYC 167, BIOL 172. Restricted to students with second-year standing or higher. Prerequisite: Either (a) one of PSYC 215, NGI 225 or (b) COGS 225. In Person-Learning  
**Perceptual Processing**  
Neurodevelopment and neuroplasticity, the physiological bases of several motivated behaviours (sleep, sexual behaviour, hunger and eating, drugs and addiction); cognition, the stress response, and brain dysfunction and recovery. A maximum of 4 credits can be granted for either PSYC 216 or PSYC 370 and 371. Restricted to students in NGI Major or Honours with second-year standing or higher. Prerequisite: One of PSYC 201, PSYC 270, COGS 210 and one of PSYC 217, PSYC 277 and one of PSYC 218, PSYC 278. Restricted to students in NGI Major or Honours with second-year standing or higher. Prerequisite: PSYC 201. In Person-Learning  
**Directed Studies in Behavioural Neuroscience I**  
Directed investigation of an experimental problem in Behavioural Neuroscience requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in PSYC or COGS or NGI with second-year standing or higher. In Person-Learning  
**Directed Studies in Behavioural Neuroscience II**  
Directed investigation of an experimental problem in Behavioural Neuroscience requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in PSYC or COGS or NGI with second-year standing or higher. In Person-Learning  
**Directed Studies in Behavioural Neuroscience III**  
Directed investigation of an experimental problem in Behavioural Neuroscience requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in PSYC or COGS or NGI with second-year standing or higher. In Person-Learning  
**Directed Studies in Behavioural Neuroscience IV**  
Directed investigation of an experimental problem in Behavioural Neuroscience requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in PSYC or COGS or NGI with second-year standing or higher. In Person-Learning  
**Cooperative Work Placement I**  
Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 12 weeks, full-time. Normally taken in Summer Session after third year. Work term report required. Restricted to students admitted to the Co-op Program in Psychology. This course is not eligible for Credit/D/Fail grading. Prerequisite: Co-op Workshops. In Person-Learning  
**Cooperative Work Placement II**  
Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in fourth year Winter Session, Term I. Work term report required. Pass/Fail. Restricted to students admitted to the Co-op Program in Psychology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PSYC 198. In Person-Learning  
**Cooperative Work Placement III**  
Approved and supervised relevant work experience in an industrial, academic, or government setting for a minimum of 13 weeks, full-time. Normally taken in fourth year Winter Session, Term I. Work term report required. Pass/Fail. Restricted to students admitted to the Co-op Program in Psychology. This course is not eligible for Credit/D/Fail grading. Prerequisite: PSYC 206. In Person-Learning  
**Clinical Psychology**  
Theoretical and research foundations of the processes of assessment and behaviour modification in clinical psychology. Credit will be granted for only one of PSYC 401 or PSYC 402. Restricted to students with third-year standing or higher. Strongly recommended: PSYC 217, PSYC 277 and PSYC 310. In Person-Learning  
**Clinical Psychology**  
Theoretical and research foundations of the processes of assessment and behaviour modification in clinical psychology. Credit will be granted for only one of PSYC 401 or PSYC 402. Restricted to students with third-year standing or higher. Strongly recommended: PSYC 217, PSYC 277 and PSYC 310. In Person-Learning  

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<th>Course Code</th>
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<th>Time</th>
<th>Room</th>
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<tr>
<td>PSYC_V 399-001</td>
<td>W1</td>
<td>Mon Wed Thu</td>
<td>2:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>PSYC_V 361-001</td>
<td>W1</td>
<td>Mon Wed Thu</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>PSYC_V 363-001</td>
<td>W1</td>
<td>Mon Wed Thu</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>PSYC_V 365-001</td>
<td>W2</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>PSYC_V 367-001</td>
<td>W1</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>PSYC_V 368-001</td>
<td>W2</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>PSYC_V 370-001</td>
<td>W1</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>PSYC_V 371-002</td>
<td>W2</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>PSYC_V 388-B_002</td>
<td>W1</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>PSYC_V 388-C_003</td>
<td>W2</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>PSYC_V 388-E_001</td>
<td>W1-2</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>PSYC_V 398-510</td>
<td>W1</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<tr>
<td>PSYC_V 398-610</td>
<td>W1-2</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>PSYC_V 399-510</td>
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<td>PSYC_V 399-610</td>
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<td>Tue Thu</td>
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<tr>
<td>PSYC_V 401-002</td>
<td>W2</td>
<td>Tue Thu</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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PSYC_V 404-001

Cognitive, emotional, and motivational underpinnings of religious behaviour; supernatural beliefs, magical thinking, ritual, sacrifice; religion in crime and morality, prosociality, health, violence, and intergroup relations. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 305, PSYC 307, PSYC 308, PSYC 358. In Person Learning Tue Thu 9:30 a.m. - 11:10 a.m.

PSYC_V 404-002

Cognitive, emotional, and motivational underpinnings of religious behaviour; supernatural beliefs, magical thinking, ritual, sacrifice; religion in crime and morality, prosociality, health, violence, and intergroup relations. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 305, PSYC 307, PSYC 308, PSYC 358. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.

PSYC_V 404-003

Cognitive, emotional, and motivational underpinnings of religious behaviour; supernatural beliefs, magical thinking, ritual, sacrifice; religion in crime and morality, prosociality, health, violence, and intergroup relations. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 305, PSYC 307, PSYC 308, PSYC 358. In Person Learning Wed 12:00 p.m. - 1:30 p.m.

PSYC_V 404-004

Cognitive, emotional, and motivational underpinnings of religious behaviour; supernatural beliefs, magical thinking, ritual, sacrifice; religion in crime and morality, prosociality, health, violence, and intergroup relations. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 305, PSYC 307, PSYC 308, PSYC 358. In Person Learning Mon Wed 2:00 p.m. - 3:30 p.m.

PSYC_V 409-001

The structure of the mind as revealed by brain injury, neurological illness, and surgical intervention. Topics include attention, memory, language, sense of self, topographic awareness, moral reasoning, emotion, theory of mind, and social awareness. Restricted to students with third-year standing or higher. Prerequisite: Either (i) one of PSYC 204, PSYC 206, NSCI 205, PSYC 270 or (ii) GOAS 201. In Person Learning Tue Thu 10:00 a.m. - 1:30 p.m.

PSYC_V 409-002

The structure of the mind as revealed by brain injury, neurological illness, and surgical intervention. Topics include attention, memory, language, sense of self, topographic awareness, moral reasoning, emotion, theory of mind, and social awareness. Restricted to students with third-year standing or higher. Prerequisite: Either (i) one of PSYC 204, PSYC 206, NSCI 205, PSYC 270 or (ii) GOAS 201. In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.

PSYC_V 413-001

Comprehensive overview of the psychological processes in the social and personality development of infants, children, and adolescents. Restricted to students with third-year standing or higher. Strongly recommended: PSYC 217, PSYC 277 and one of PSYC 302, PSYC 315, PSYC 319, PSYC 322, PSYC 325. Online Learning Arranged Arranged

PSYC_V 413-002

Comprehensive overview of the psychological processes in the social and personality development of infants, children, and adolescents. Restricted to students with third-year standing or higher. Strongly recommended: PSYC 217, PSYC 277 and one of PSYC 302, PSYC 315, PSYC 319, PSYC 322, PSYC 325. Online Learning Arranged Arranged

PSYC_V 421-001

Investigation of an issue, topic, or phenomenon in psychology, focusing on research deeply within a subfield or integrating research across subfields. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 202, PSYC 302, PSYC 315, PSYC 319, PSYC 322, PSYC 325. Psychological theory and research on the interaction between organisms and the physical environment; emphasis on applications to the design and management of constructed and natural environments. Strongly recommended: PSYC 217, PSYC 277 and one of PSYC 202, PSYC 302, PSYC 315, PSYC 319, PSYC 322, PSYC 325. Online Learning Arranged Arranged

PSYC_V 427-001

Investigation of an issue, topic, or phenomenon in psychology, focusing on research deeply within a subfield or integrating research across subfields. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 202, PSYC 302, PSYC 315, PSYC 319, PSYC 322, PSYC 325. Comprehensive overview of the psychological processes in the social and personality development of infants, children, and adolescents. Restricted to students with third-year standing or higher. Strongly recommended: PSYC 217, PSYC 277 and one of PSYC 302, PSYC 315, PSYC 319, PSYC 322, PSYC 325. In Person Learning Wed 1:30 p.m. - 4:00 p.m.

PSYC_V 427-002

Investigation of an issue, topic, or phenomenon in psychology, focusing on research deeply within a subfield or integrating research across subfields. Restricted to students with third-year standing or higher. Prerequisite: One of PSYC 217, PSYC 277 and one of PSYC 202, PSYC 302, PSYC 315, PSYC 319, PSYC 322, PSYC 325. Comprehensive overview of the psychological processes in the social and personality development of infants, children, and adolescents. Restricted to students with third-year standing or higher. Strongly recommended: PSYC 217, PSYC 277 and one of PSYC 302, PSYC 315, PSYC 319, PSYC 322, PSYC 325. In Person Learning Wed 2:00 p.m. - 3:30 p.m.

PSYC_V 440-001

Directed investigations of a research problem, requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in Psychology or Cognitive Systems, with third-year standing or higher. In Person Learning Arranged Arranged

PSYC_V 440-002

Directed investigations of a research problem, requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in Psychology or Cognitive Systems, with third-year standing or higher. In Person Learning Arranged Arranged

PSYC_V 449-001

Honours Seminar and Essay

Students carry out a research project and report on its development. Students also discuss research by Departmental staff, with emphasis on choice of problems, research design and data analysis. Restricted to students in their graduating year. Restricted to students in Honours Psychology, in fourth-year standing or higher. Prerequisite: PSYC 340. In Person Learning Tue 11:00 a.m. - 1:30 p.m.

PSYC_V 449-002

Honours Seminar and Essay

Students carry out a research project and report on its development. Students also discuss research by Departmental staff, with emphasis on choice of problems, research design and data analysis. Restricted to students in their graduating year. Restricted to students in Honours Psychology, in fourth-year standing or higher. Prerequisite: PSYC 340. In Person Learning Tue 11:00 a.m. - 1:30 p.m.

PSYC_V 460-001

Behavioural Neuroendocrinology

In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.
Directed investigations of an experimental problem in Behavioural Neuroscience requiring written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in PSYC or COGS or NSCI with third-year standing or higher.

Directed investigations of an experimental problem in Behavioural Neuroscience requiring a written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in PSYC or COGS or NSCI with third-year standing or higher.

Directed investigations of an experimental problem in Behavioural Neuroscience requiring written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in PSYC or COGS or NSCI with third-year standing or higher.

Directed investigations of an experimental problem in Behavioural Neuroscience requiring written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in PSYC or COGS or NSCI with third-year standing or higher.

Directed investigations of an experimental problem in Behavioural Neuroscience requiring written report of the findings. Requires the supervising faculty member's permission. See the Department's website for more information. Restricted to Majors in PSYC or COGS or NSCI with third-year standing or higher.
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<th>CRN</th>
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<tr>
<td>508</td>
<td>Teaching of Psychology</td>
<td>W1. Restricted to students in one of PND PSYC, PND NRSC. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>513</td>
<td>Special Topics in Developmental Psychology</td>
<td>W1. 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>514</td>
<td>Advanced Topics in Biopsychology</td>
<td>W1. Restricted to students in one of MA PSYC, ASC NRSC, PND PSYC, PND NRSC. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>517</td>
<td>Biopsychology of Motivation</td>
<td>W1. Restricted to students in one of MA PSYC, ASC NRSC, PND PSYC, PND NRSC. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>520</td>
<td>Developmental Biopsychology</td>
<td>W2. Restricted to students in one of MA PSYC, ASC NRSC, PND PSYC, PND NRSC. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>526</td>
<td>Advanced Methods in Social Psychology and Personality</td>
<td>W2. 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>530</td>
<td>Assessment: A Critical Survey</td>
<td>W1. This course is not eligible for Credit/D/Fail grading.</td>
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<tr>
<td>531</td>
<td>Assessment: Clinical Applications</td>
<td>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.</td>
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<td>532</td>
<td>Child Assessment</td>
<td>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.</td>
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<tr>
<td>533</td>
<td>Current Issues in Clinical Psychology</td>
<td>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.</td>
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<tr>
<td>534-B</td>
<td>Clinical Psychology Practicum</td>
<td>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.</td>
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<td>535</td>
<td>Psychopathology of the Adult</td>
<td>W1. 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>536</td>
<td>Psychopathology of the Child</td>
<td>W1. 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>537</td>
<td>Ethical and Professional Issues in Clinical Psychology</td>
<td>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.</td>
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<td>538</td>
<td>Clinical Neuropsychological Assessment</td>
<td>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.</td>
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<td>541</td>
<td>Introduction to Psychotherapy</td>
<td>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.</td>
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<td>PSYC_V 542-A_001</td>
<td>Cognitive/Behavioural Interventions</td>
<td>W1</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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<td>PSYC_V 545-A_001</td>
<td>Advanced Statistics</td>
<td>W1</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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<td>PSYC_V 546-B_001</td>
<td>Seminar in Quantitative Psychology</td>
<td>W2</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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<td>PSYC_V 546-C_001</td>
<td>Seminar in Quantitative Psychology</td>
<td>W2</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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<td>PSYC_V 546-H_001</td>
<td>Seminar in Quantitative Psychology</td>
<td>W1</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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<td>PSYC_V 546-J_001</td>
<td>Seminar in Quantitative Psychology</td>
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<td>PSYC_V 546-L_001</td>
<td>Seminar in Quantitative Psychology</td>
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<td>PSYC_V 547-E_001</td>
<td>Reading and Conference</td>
<td>W1</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 547-E_002</td>
<td>Reading and Conference</td>
<td>W2</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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<td>PSYC_V 549-A_001</td>
<td>Clinical Psychological Internship</td>
<td>W1-2</td>
<td>Restricted to students in MA PSYC. This course is not eligible for Credit/D/Fail grading.</td>
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<td>PSYC_V 549-A_002</td>
<td>Master's Thesis</td>
<td>W1</td>
<td>Restricted to students in MA PSYC. This course is not eligible for Credit/D/Fail grading.</td>
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<td>PSYC_V 549-A_003</td>
<td>Master's Thesis</td>
<td>W2</td>
<td>Restricted to students in MA PSYC. This course is not eligible for Credit/D/Fail grading.</td>
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<td>PSYC_V 556-E_001</td>
<td>Psychological Treatment of Childhood Disorders</td>
<td>W2</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.</td>
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<td>PSYC_V 559-A_001</td>
<td>Clinical Psychological Internship</td>
<td>W1-2</td>
<td>Restricted to students in one of MA PSYC, PhD PSYC. Restricted to Psychology graduate students in the Clinical Research Area. Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
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<td>PSYC_V 560-E_001</td>
<td>Clinical Research Design</td>
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<td>PSYC_V 569-E_001</td>
<td>Contemporary Conceptual issues in Personality</td>
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<td>PSYC_V 571-A_001</td>
<td>Special Topics in Cognitive Neuroscience</td>
<td>W1</td>
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<td>Special Topics in Cognitive Neuroscience</td>
<td>W2</td>
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<td>Special Topics in Cognitive Neuroscience</td>
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<td>PSYC_V 582-A_001</td>
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<td>PSYC_V 583-A_001</td>
<td>Special Topics in Developmental Cognitive Neuroscience</td>
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<td>PSYC_V 584-E_001</td>
<td>Survey of Social Psychology I</td>
<td>W2</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>RES_V 500-B_101</td>
<td>Resource and Environmental Workshop</td>
<td>Directed Studies</td>
<td>W2 2:00 p.m. - 4:00 p.m.</td>
<td>Wed</td>
<td>B, 101</td>
<td>Faculty and students from different disciplines act as an interdisciplinary team studying specific resource problems with ecological, economic, demographic and social dimensions. Techniques and methods are emphasized to show their value in integrating knowledge, defining policy and facilitating communication. Several sections with different emphasis offered each year. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of the instructor is required.</td>
</tr>
<tr>
<td>RES_V 500-B_201</td>
<td>Resource and Environmental Workshop</td>
<td>Directed Studies</td>
<td>W2 2:00 p.m. - 4:00 p.m.</td>
<td>Wed</td>
<td>B, 201</td>
<td>Faculty and students from different disciplines act as an interdisciplinary team studying specific resource problems with ecological, economic, demographic and social dimensions. Techniques and methods are emphasized to show their value in integrating knowledge, defining policy and facilitating communication. Several sections with different emphasis offered each year. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of the instructor is required.</td>
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<tr>
<td>RES_V 500-D_101</td>
<td>Resource and Environmental Workshop</td>
<td>Directed Studies</td>
<td>W1 2:00 p.m. - 4:00 p.m.</td>
<td>Wed</td>
<td>D, 101</td>
<td>Faculty and students from different disciplines act as an interdisciplinary team studying specific resource problems with ecological, economic, demographic and social dimensions. Techniques and methods are emphasized to show their value in integrating knowledge, defining policy and facilitating communication. Several sections with different emphasis offered each year. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of the instructor is required.</td>
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<tr>
<td>RES_V 500-E_201</td>
<td>Resource and Environmental Workshop</td>
<td>Directed Studies</td>
<td>W2 2:00 p.m. - 4:00 p.m.</td>
<td>Wed</td>
<td>E, 201</td>
<td>Faculty and students from different disciplines act as an interdisciplinary team studying specific resource problems with ecological, economic, demographic and social dimensions. Techniques and methods are emphasized to show their value in integrating knowledge, defining policy and facilitating communication. Several sections with different emphasis offered each year. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of the instructor is required.</td>
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<tr>
<td>RES_V 500-H_201</td>
<td>Resource and Environmental Workshop</td>
<td>Directed Studies</td>
<td>W1 2:00 p.m. - 4:00 p.m.</td>
<td>Wed</td>
<td>H, 201</td>
<td>Faculty and students from different disciplines act as an interdisciplinary team studying specific resource problems with ecological, economic, demographic and social dimensions. Techniques and methods are emphasized to show their value in integrating knowledge, defining policy and facilitating communication. Several sections with different emphasis offered each year. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of the instructor is required.</td>
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An introduction to the structure and function of the human nervous system. [2-3-0]
Elements of Neuroanatomy and Neurophysiology

An introduction to the structure and function of the human nervous system. [2-3-0] In Person Learning Arranged Arranged

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

In Person Learning Arranged

Arranged

Online Learning Arranged Arranged

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

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In Person Learning Arranged

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In Person Learning Arranged

Arranged

Online Learning Arranged Arranged

This course is not eligible for Credit/D/Fail grading.
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<tr>
<td>RHSC_530-002</td>
<td>Research Proposal</td>
<td>W2</td>
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<td>RHSC_537-001</td>
<td>Randomized Intervention Trials in Rehabilitation</td>
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<td>RHSC_549-001</td>
<td>M.Sc. Thesis</td>
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<td>M.Sc. Thesis</td>
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<td>RHSC_549-003</td>
<td>M.Sc. Thesis</td>
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<td>RHSC_583-A-022</td>
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<td>RHSC_583-A-025</td>
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<td>RHSC_583-A-026</td>
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<td>RHSC_591-001</td>
<td>Leadership in Rehabilitation</td>
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<tr>
<td>RHSC_699-001</td>
<td>Doctoral Dissertation</td>
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<td>RHSC_699-002</td>
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<td>RMST_301-010</td>
<td>Introduction to Romance Cultures</td>
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Modern An introduction to the main themes that shaped the Romance World as its different national identities emerged in the Mediterranean sphere.
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<th>Title</th>
<th>Meeting Times</th>
<th>Location</th>
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<tr>
<td>RMST 320-101</td>
<td>202</td>
<td>3</td>
<td>Introduction to Literatures and Cultures of the Romance World III: Modern to Post-Modern.</td>
<td>Mon Wed Fri, 2:00 p.m. - 3:30 p.m.</td>
<td>W01</td>
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<td>RMST 320-101</td>
<td>203</td>
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<td>Introduction to Literatures and Cultures of the Romance World III: Modern to Post-Modern.</td>
<td>Mon Wed Fri, 2:00 p.m. - 3:30 p.m.</td>
<td>W02</td>
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<td>RMST 280-101</td>
<td>201</td>
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<td>Revolution!</td>
<td>Wed Fri, 11:00 a.m. - 12:30 p.m.</td>
<td>W01</td>
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<td>RMST 361-201</td>
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<td>An introduction to the main themes that shaped the Romance World as its different national identities emerged in the Mediterranean sphere.</td>
<td>Mon Wed Fri, 2:00 p.m. - 3:30 p.m.</td>
<td>W01</td>
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<td>RMST 260-102</td>
<td>201</td>
<td>4</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: PORT 222.</td>
<td>Mon Wed Fri, 2:00 p.m. - 3:30 p.m.</td>
<td>W01</td>
<td>In Person Learning</td>
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<tr>
<td>RMST 260-101</td>
<td>201</td>
<td>4</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: PORT 222.</td>
<td>Mon Wed Fri, 2:00 p.m. - 3:30 p.m.</td>
<td>W01</td>
<td>In Person Learning</td>
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<tr>
<td>RMST 280-101</td>
<td>201</td>
<td>4</td>
<td>Revolution!</td>
<td>Wed Fri, 11:00 a.m. - 12:30 p.m.</td>
<td>W01</td>
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<tr>
<td>RMST 301-101</td>
<td>101</td>
<td>3</td>
<td>Prose Fiction and Non-Fiction of the Romance World</td>
<td>Mon Wed Fri, 11:00 a.m. - 12:30 p.m.</td>
<td>W01</td>
<td>In Person Learning</td>
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<tr>
<td>RMST 302-101</td>
<td>201</td>
<td>4</td>
<td>Theatre and Poetry of the Romance World</td>
<td>Mon Wed Fri, 11:00 a.m. - 12:30 p.m.</td>
<td>W01</td>
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<tr>
<td>RMST 304-101</td>
<td>201</td>
<td>3</td>
<td>Attention of the Text: Readings and Adaptations.</td>
<td>Mon Wed Fri, 11:00 a.m. - 12:30 p.m.</td>
<td>W01</td>
<td>In Person Learning</td>
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<tr>
<td>RMST 305-101</td>
<td>201</td>
<td>3</td>
<td>Overview of the history, aesthetics and characteristics of films in French, Italian, Spanish, and Portuguese. Credit will be granted for only one of RMST 344 or RMST 365. Equivalency: RMST 344.</td>
<td>Mon Wed Fri, 11:00 a.m. - 12:30 p.m.</td>
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<td>RMST 321-201</td>
<td>201</td>
<td>3</td>
<td>French literature from the Middle Ages to the Revolution.</td>
<td>Mon Wed Fri, 2:00 p.m. - 3:30 p.m.</td>
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<td>RMST 345-101</td>
<td>201</td>
<td>3</td>
<td>Italian Fascism in Interdisciplinary Perspective</td>
<td>Mon Wed Fri, 2:00 p.m. - 3:30 p.m.</td>
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<td>RMST 350-B-201</td>
<td>101</td>
<td>3</td>
<td>Special Topics in Italian Studies</td>
<td>Mon Wed Fri, 2:00 p.m. - 3:30 p.m.</td>
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<td>RMST 361-201</td>
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<td>Studies in Portuguese and Brazilian Literature</td>
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<td>RMST 375-201</td>
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<td>The Caribbean: Frontiers of the Romance World</td>
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<td>RMST 400-201</td>
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<td>Romance Linguistics</td>
<td>Mon Wed Fri, 2:00 p.m. - 3:30 p.m.</td>
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<td>RMST 401-101</td>
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<td>Visions of Nature and the Environment in the Romance World</td>
<td>Mon Wed Fri, 2:00 p.m. - 3:30 p.m.</td>
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<td>RMST 410-101</td>
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<td>Studies in Romance Languages and Literature</td>
<td>Mon Wed Fri, 2:00 p.m. - 3:30 p.m.</td>
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<td>RMST 410-101</td>
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<td>RMST 410-101</td>
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<td>Romance and its Cultural Background</td>
<td>Mon Wed Fri, 2:00 p.m. - 3:30 p.m.</td>
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<td>RMST 410-101</td>
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<td>3</td>
<td>Dante Alighieri's Divine Comedy</td>
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<td>Topics in Modern and Contemporary Italian Literature and Culture</td>
<td>W2</td>
<td>Tue Thu</td>
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<td>Basic Russian I</td>
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<td>W1</td>
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<td>3:00 p.m. - 4:00 p.m.</td>
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<td>Basic Russian II</td>
<td>W2</td>
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<td>Mon Wed Fri</td>
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<td>Second-Year Russian I</td>
<td>W1</td>
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<td>1:00 p.m. - 2:00 p.m.</td>
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<td>Russian Literature in Translation</td>
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<td>11:00 a.m. - 12:00 p.m.</td>
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<td>Advanced Russian Practice</td>
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<td>Fantastic Worlds in Russian Fiction (in English)</td>
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<td>3:00 p.m. - 4:00 p.m.</td>
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<td>Introductory Sanskrit</td>
<td>W1-2</td>
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<td>Further Readings in Sanskrit</td>
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<td>Mon Wed Fri</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>SANS_V 306-A_101</td>
<td>Russian Literature in Translation</td>
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<td>W1</td>
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<td>Russian genre fiction and the science-fiction, fantasy and graphic</td>
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<td>Mon Wed Fri</td>
<td>3:00 p.m. - 4:00 p.m.</td>
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<td>SANS_V 450-A_201</td>
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<td>W1-2</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>
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</table>

Science One: www.scienceone.ubc.ca for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4] One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4]
An innovative first-year multi-disciplinary course incorporating biology, chemistry, mathematics, and physics with a strong focus on the connections between these traditional disciplines. See the Science One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [3-0-0]

Pre-requisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either W1L 11 or W1L 12).

First-Year Focus Seminar

This course is not eligible for Credit/D/Fail grading. [1*-0-1*]

Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either W1L 11 or W1L 12).

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]

First-Year Seminar in Science

An innovative first-year multi-disciplinary course incorporating biology, chemistry, mathematics, and physics with a strong focus on the connections between these traditional disciplines. See the Science One website (www.scienceone.ubc.ca) for further information and the application process for admission to SCIE 001. This course is not eligible for Credit/D/Fail grading. [12-6-4;12-6-4]

Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either W1L 11 or W1L 12).

First-Year Seminar for First-Year Focus option focused on discipline-specific learning strategies for academic success and community and scholarly engagement. This course is restricted to first-year students in the First-Year Focus option. Pass/Fail This course is not eligible for Credit/D/Fail grading. [7*-0-7]*

First-Year Seminar in Science

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Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either W1L 11 or W1L 12).

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Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either W1L 11 or W1L 12).

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Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either W1L 11 or W1L 12).

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]

First-Year Seminar in Science

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Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either W1L 11 or W1L 12).

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]

First-Year Seminar in Science

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Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either W1L 11 or W1L 12).

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Prerequisite: All of: CALC 12, ENGL 12, and Pre-calculus 12; two of: CHEM 12, PHYS 12, High School Biology (either W1L 11 or W1L 12).

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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<th>Course Code</th>
<th>CRN</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
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<td>Mon Wed Fri</td>
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<td>113</td>
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<td>Mon Wed Fri</td>
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<td>Mon Wed Fri</td>
<td>In Person Learning</td>
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<td>10:00 a.m. - 11:00 a.m.</td>
<td>Mon Wed Fri</td>
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**Course Details:**

- **Course:** In Person Learning
- **First-Year Seminar in Science**
- **CRN:** 113
- **Time:**
  - Mon and Wed: 9:00 a.m. - 10:00 a.m.
  - Fri: 10:00 a.m. - 11:00 a.m.
- **Location:** In Person Learning
- **Instructor:** Mon Wed Fri

**Course Description:**

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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<td>114</td>
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<td>W1</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>First-Year Seminar in Science</td>
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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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<th>CRN</th>
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<td>16A</td>
<td>Mon, Wed, Fri</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<td>Micro-learning 3.00 p.m. - 3:00 p.m.</td>
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<td>Mon, Wed, Fri</td>
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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]
Course: First-Year Seminar in Science

- 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]
- Corequisite: One of BIOL 300, STAT 200, STAT 241, and 3rd or 4th year standing in Combined Major in Science. Effective communication and presentation skills in science. [1-0-3]
- Course is not eligible for Credit/D/Fail grading. [3-0-0]
- 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]
- 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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<td>SCIE_V 300-213</td>
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<td>SCIE_V 400-101</td>
<td>W1</td>
<td>4.00</td>
<td>Discipline-based Education Research Methodology</td>
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<td>SCIE_V 500-101</td>
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<td>SLAV_V 105-101</td>
<td>W1</td>
<td>3.00</td>
<td>Introduction to Russian and Slavic Culture</td>
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<td>2:00 p.m. - 3:00 p.m.</td>
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<td>SLAV_V 307-A_201</td>
<td>W2</td>
<td>3.00</td>
<td>Literature and Film in Eastern Europe</td>
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<td>SOCI_V 100-206</td>
<td>W3</td>
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<td>10:00 a.m. - 12:00 p.m.</td>
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<td>Social Interaction and Culture</td>
<td>Culture, identity, social interaction, relationships and socialization.</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>3.00</td>
<td>Social Interaction and Culture</td>
<td>Culture, identity, social interaction, relationships and socialization.</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<td>3.00</td>
<td>Social Interaction and Culture</td>
<td>Culture, identity, social interaction, relationships and socialization.</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
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<td>SOCI_V 101-B12</td>
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<td>10:00 a.m. - 11:00 a.m.</td>
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<td>Thu</td>
<td>5:00 p.m. - 6:00 p.m.</td>
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<td>Social Interaction and Culture</td>
<td>Credit will be granted for only one of SOCI 101 or SOCI 100.</td>
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<td>Social Interaction and Culture</td>
<td>Credit will be granted for only one of SOCI 101 or SOCI 100.</td>
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<tr>
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<td>Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
<td>In Person Learning</td>
<td>Social Interaction and Culture</td>
<td>Credit will be granted for only one of SOCI 101 or SOCI 100.</td>
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<tr>
<td>SOC1_V 101-E11</td>
<td>Thu</td>
<td>1:00 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
<td>Social Interaction and Culture</td>
<td>Credit will be granted for only one of SOCI 101 or SOCI 100.</td>
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<tr>
<td>SOC1_V 101-E12</td>
<td>Thu</td>
<td>11:00 a.m. - 12:00 p.m.</td>
<td>In Person Learning</td>
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<td>Credit will be granted for only one of SOCI 101 or SOCI 100.</td>
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<td>Thu</td>
<td>2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Social Interaction and Culture</td>
<td>Credit will be granted for only one of SOCI 101 or SOCI 100.</td>
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<tr>
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<td>Wed</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>In Person Learning</td>
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<td>SOC1_V 101-G21</td>
<td>Wed</td>
<td>4:00 p.m. - 5:00 p.m.</td>
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<td>Social Interaction and Culture</td>
<td>Credit will be granted for only one of SOCI 101 or SOCI 100.</td>
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<td>SOC1_V 101-H11</td>
<td>Fri</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>SOC1_V 101-H21</td>
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<td>11:00 a.m. - 12:00 p.m.</td>
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<td>Social Interaction and Culture</td>
<td>Credit will be granted for only one of SOCI 101 or SOCI 100.</td>
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### SOCI 102-C11
101 102 101 102 Social Interaction and Culture  W1  
Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100. In Person Learning Wed 11:00 a.m. - 12:00 p.m.

### SOCI 102-C12
101 102 101 102 Social Interaction and Culture  W1  
Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100. In Person Learning Fri 1:00 p.m. - 2:00 p.m.

### SOCI 102-C13
101 102 101 102 Social Interaction and Culture  W1  
Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100. In Person Learning Wed 11:00 a.m. - 12:00 p.m.

### SOCI 102-C14
101 102 101 102 Social Interaction and Culture  W1  
Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100. In Person Learning Fri 1:00 p.m. - 2:00 p.m.

### SOCI 102-C15
101 102 101 102 Social Interaction and Culture  W1  
Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100. In Person Learning Wed 11:00 a.m. - 12:00 p.m.

### SOCI 102-C16
101 102 101 102 Social Interaction and Culture  W1  
Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100. In Person Learning Fri 1:00 p.m. - 2:00 p.m.

### SOCI 102-C17
101 102 101 102 Social Interaction and Culture  W1  
Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100. In Person Learning Wed 11:00 a.m. - 12:00 p.m.

### SOCI 102-C18
101 102 101 102 Social Interaction and Culture  W1  
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### SOCI 102-C19
101 102 101 102 Social Interaction and Culture  W1  
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### SOCI 102-C20
101 102 101 102 Social Interaction and Culture  W1  
Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100. In Person Learning Fri 1:00 p.m. - 2:00 p.m.

### SOCI 102-C21
101 102 101 102 Social Interaction and Culture  W1  
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<td>3:00 p.m. - 4:00 p.m.</td>
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Inequality and Social Change

102 or SOCI 100.

Inequality, institutions, social structure and social change. Credit will be granted for only one of SOCI 102 or SOCI 100.

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Sociology of Family

An introduction to contemporary family forms and relations.

An introduction to contemporary family forms and relations.

An introduction to contemporary family forms and relations.
<table>
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<tr>
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<th>Course Code</th>
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<td>Sociology of Personal Life</td>
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<td>Introduction to Social Interaction</td>
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<td>Crime and Society</td>
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<td>Built Environments</td>
<td>W2</td>
<td>12:00 p.m. - 2:00 p.m.</td>
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<td>369</td>
<td>Sociology of Sexuality</td>
<td>W1</td>
<td>3:30 p.m. - 5:00 p.m.</td>
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<td>369</td>
<td>Sociology of Sexuality</td>
<td>W2</td>
<td>12:00 p.m. - 2:00 p.m.</td>
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<td>370</td>
<td>Sociological Theories: Classical and Contemporary Approaches</td>
<td>W1-2</td>
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<td>371</td>
<td>Classical Traditions in Theory</td>
<td>W1</td>
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<td>371</td>
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<td>372</td>
<td>Contemporary Directions in Theory</td>
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<td>Sociology of Health and Illness</td>
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<td>Drugs and Society</td>
<td>W2</td>
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<td>Feminist Theory</td>
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<td>A-103 Theories of Family and Kinship</td>
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<td>A-104 Theories of Family and Kinship</td>
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</table>

Tendencies toward equality and inequality, manifestations of inequality (occupation, education, gender, ethnicity, income, power) and their consequences; caste and class features of major stratification systems; theories of social class; stratification profile of contemporary industrial societies. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.

Physical, social, and economic aspects of built environments, including housing and community planning. Prerequisite: One of SOC 100, SOC 101, SOC 102.

Historical and social construction of sexual identities, desires, communities, and politics in the twentieth century. Prerequisite: One of SOC 100, SOC 101, SOC 102.

An examination of selected traditions, conceptual problems, and current topics in the field of sociological theory. Credit will be granted for only one of SOC 370 or both SOC 371, SOC 372. Prerequisite: One of SOC 100, SOC 101, SOC 102.

An examination of selected traditions, conceptual problems and topics in the foundational theories of sociology. Credit will be granted for only one of SOC 371 or SOC 370. Prerequisite: One of SOC 100, SOC 101, SOC 102.

A survey of theories in contemporary sociology. Credit will be granted for only one of SOC 372 or SOC 371. Prerequisite: One of SOC 100, SOC 101, SOC 102.

A survey of theories in contemporary sociology. Credit will be granted for only one of SOC 372 or SOC 371. Prerequisite: One of SOC 100, SOC 101, SOC 102.

An examination of the different traditions of qualitative sociological inquiry and the associated methodological features used to study the interpretive practices and meanings in the everyday lives of individuals. Prerequisite: One of SOC 100, SOC 101, SOC 102, SOC 217.

Examination of the different traditions of qualitative sociological inquiry and the associated methodological features used to study the interpretive practices and meanings in the everyday lives of individuals. Prerequisite: One of SOC 100, SOC 101, SOC 102, SOC 217.

Questionnaire design, interviewing, sampling, and analysis of survey data. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.

Questionnaire design, interviewing, sampling, and analysis of survey data. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.

Questionnaire design, interviewing, sampling, and analysis of survey data. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.

Questionnaire design, interviewing, sampling, and analysis of survey data. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.

Social dimensions of the causes, consequences, regulation, and treatment of substance use from Canadian and international perspectives. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.

Social dimensions of the causes, consequences, regulation, and treatment of substance use from Canadian and international perspectives. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.

The emergence of feminist theory, its relationship to sociology, and the major theoretical schools of thought. Prerequisite: One of SOC 100, SOC 101, SOC 102.

The emergence of feminist theory, its relationship to sociology, and the major theoretical schools of thought. Prerequisite: One of SOC 100, SOC 101, SOC 102.

Theoretical approaches to the study of the family and family forms. Prerequisite: One of SOC 100, SOC 101, SOC 102.

Theoretical approaches to the study of the family and family forms. Prerequisite: One of SOC 100, SOC 101, SOC 102.

Theoretical approaches to the study of the family and family forms. Prerequisite: One of SOC 100, SOC 101, SOC 102.

Theoretical approaches to the study of the family and family forms. Prerequisite: One of SOC 100, SOC 101, SOC 102.
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<td>SOCI 101-202</td>
<td>A</td>
<td>A_202</td>
<td>Theories of Family and Kinship</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Mon Wed</td>
<td>8:30 a.m. - 11:00 a.m.</td>
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<td>A</td>
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<td>W2</td>
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<td>Tue Thu</td>
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<td>Social Statistics II</td>
<td>W1</td>
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<td>Sociology of the Environment</td>
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<td>Economic Sociology</td>
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<td>7:30 p.m. - 10:00 p.m.</td>
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<td>441</td>
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<td>A</td>
<td>A_401</td>
<td>Sociology of Education</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed</td>
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<td>449</td>
<td>SOCI 101-402</td>
<td>A</td>
<td>A_402</td>
<td>Sociology of Education</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>7:20 p.m. - 10:00 p.m.</td>
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Theoretical approaches to the study of the family and family forms. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.

Sociological approaches to the study of environmental conflicts, issues, movements, impact of changing technology, economic development on the environment. Prerequisite: One of SOCI 100, SOCI 101, SOCI 102.

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<td>465</td>
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<td>B_201</td>
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<td>Qualitative Data Analysis in Sociology</td>
<td>Credit/D/F</td>
<td>Tue</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>SOCI_V 649-C_201</td>
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<td>Contemporary Sociological Theory</td>
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<td>SOCI_V 650-201</td>
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<td>Research Design and Techniques (Quantitative)</td>
<td>Credit/D/F</td>
<td>Thu</td>
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<td>SOCI_V 598-A_201</td>
<td>549</td>
<td>Master's Thesis</td>
<td>A_201</td>
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<td>Special Topics Seminar in Sociology</td>
<td>Credit/D/F</td>
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<td>2:30 p.m. - 4:00 p.m.</td>
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<td>Credit/D/F</td>
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This course is not eligible for Credit/D/Fail grading.

Equivalency: LWS 517.

Field and laboratory analytical techniques in the chemical, biological and physical assessment of soils. Credit will be granted for only one of SOIL 501 or APBI 401. This course is not eligible for Credit/D/Fail grading.

Integrating the environmental factors influencing soil-forming processes and their ecological implications. Credit will be granted for only one of SOIL 501 or APBI 401. This course is not eligible for Credit/D/Fail grading.

Integrating the environmental factors influencing soil-forming processes and their ecological implications. Credit will be granted for only one of SOIL 501 or APBI 401. This course is not eligible for Credit/D/Fail grading.

Watershed science, 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.

Urbanization impacts on water resources with a focus on rainwater management, water quality, point and non-point sources of pollution, drinking water and waste water, riparian buffer zones, cumulative effects, and application of beneficial management practices. This course is not eligible for Credit/D/Fail grading.

Urban watershed management, topics in land and water system evaluations and assessing resource development options, monitoring and modeling environmental systems. This course is not eligible for Credit/D/Fail grading.

Master’s Thesis

Master’s Thesis

Doctoral Dissertation
**SOWK-V 400-001**

**Introduction to Social Work Practice**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.
- **Corequisite**: SOWK 310.

**SOWK-V 325-003**

**Practicum I**
- **Credit**: 0.003
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.
- **Corequisite**: SOWK 310.

**SOWK-V 315-001**

**Practicum I**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course is not eligible for Credit/D/Fail grading.
- **Corequisite**: SOWK 315.

**SOWK-V 335-001**

**Topics in Social Analysis for Social Work Practice**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**SOWK-V 305-002**

**Practicum II**
- **Credit**: 0.002
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.
- **Corequisite**: SOWK 315.

**SOWK-V 310-A_001**

**Interviewing Skills**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**SOWK-V 310-A_002**

**Interviewing Skills**
- **Credit**: 0.002
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**SOWK-V 315-G_001**

**Topics in Social Work Practice I**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.
- **Corequisite**: SOWK 315.

**SOWK-V 325-002**

**Topics in Social Analysis for Social Work Practice**
- **Credit**: 0.002
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**SOWK-V 305-L_001**

**Topics in Social Work Practice I**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**SOWK-V 316-001**

**Integrative Seminar in Social Work Theory, Policy and Practice**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**SOWK-V 316-002**

**Integrative Seminar in Social Work Theory, Policy and Practice**
- **Credit**: 0.002
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**SOWK-V 316-003**

**Integrative Seminar in Social Work Theory, Policy and Practice**
- **Credit**: 0.003
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**SOWK-V 305-001**

**Indigenous Peoples and Critical Social Work Analysis**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**SOWK-V 325-002**

**Indigenous Peoples and Critical Social Work Analysis**
- **Credit**: 0.002
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**SOWK-V 335-A_001**

**Topics in Social Analysis for Social Work Practice**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**SOWK-V 317-001**

**Culture and Race in Social Work Practice**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**SOWK-V 400-001**

**Canadian Social Policy**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**SOWK-V 405-001**

**Social Work Practice II**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**SOWK-V 415-001**

**Practicum II**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.

**SOWK-V 400-002**

**Doctoral Dissertation**
- **Credit**: 0.002
- **Type**: In Person Learning
- **Enrolment**: Arranged

**SOWK-V 400-003**

**Doctoral Dissertation**
- **Credit**: 0.003
- **Type**: In Person Learning
- **Enrolment**: Arranged

**SOWK-V 200-001**

**Introduction to Social Welfare**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Arranged

**SOWK-V 201-001**

**Introduction to Social Work Practice**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Arranged

**SOWK-V 305-C_001**

**Topics in Social Work Practice I**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Arranged

**SOWK-V 305-G_001**

**Topics in Social Work Practice I**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Arranged

**SOWK-V 315-L_001**

**Topics in Social Work Practice I**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Arranged

**SOWK-V 310-A_001**

**Interviewing Skills**
- **Credit**: 0.001
- **Type**: In Person Learning
- **Enrolment**: Arranged

**SOWK-V 310-A_002**

**Interviewing Skills**
- **Credit**: 0.002
- **Type**: In Person Learning
- **Enrolment**: Arranged
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 545-002</td>
<td>Integrative Seminars in Social Work Theory, Policy and Practice</td>
<td>W2</td>
<td>6:00 p.m. - 9:00 p.m.</td>
<td>Wed</td>
<td>Online Learning</td>
<td>A supervised practicum in an assigned social service, two days a week throughout the program year. Enrollment is limited to students in the B.S.W. program. This course will be graded Pass/Fail. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>SOWK 555-003</td>
<td>Practicum II</td>
<td>W2</td>
<td></td>
<td></td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>SOWK 566-001</td>
<td>Advanced Integrative Seminar in Social Work Theory, Policy and Practice</td>
<td>W2</td>
<td>Development of professional judgement, evaluation, and self-evaluation in practice.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>SOWK 566-002</td>
<td>Advanced Integrative Seminar in Social Work Theory, Policy and Practice</td>
<td>W2</td>
<td>Development of professional judgement, evaluation, and self-evaluation in practice.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<td>SOWK 566-003</td>
<td>Advanced Integrative Seminar in Social Work Theory, Policy and Practice</td>
<td>W2</td>
<td>Development of professional judgement, evaluation, and self-evaluation in practice.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>SOWK 620-001</td>
<td>Introduction to Social Work Research</td>
<td>W1</td>
<td></td>
<td></td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>SOWK 620-A_001</td>
<td>Social Context of Child Development</td>
<td>W2</td>
<td></td>
<td>Wed</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>SOWK 620-C_001</td>
<td>Integrative Seminars in Social Work</td>
<td>W1</td>
<td></td>
<td></td>
<td>In Person Learning</td>
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<tr>
<td>SOWK 620-K_001</td>
<td>Integrative Seminars in Social Work</td>
<td>W1</td>
<td></td>
<td></td>
<td>In Person Learning</td>
<td>Thu</td>
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<tr>
<td>SOWK 620-Q_001</td>
<td>Integrative Seminars in Social Work</td>
<td>W1</td>
<td></td>
<td></td>
<td>In Person Learning</td>
<td>Wed</td>
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<tr>
<td>SOWK 641-001</td>
<td>Social Work Practice in Community Mental Health</td>
<td>W2</td>
<td></td>
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<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>SOWK 642-001</td>
<td>Policy and Practice in Child Welfare</td>
<td>W1</td>
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<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>SOWK 650-000</td>
<td>Social Work Practice in Community Mental Health</td>
<td>W2</td>
<td></td>
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<td>Online Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>SOWK 521-001</td>
<td>Social Work Practice in Addictions</td>
<td>W2</td>
<td></td>
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<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>SOWK 525-001</td>
<td>Advanced Social Work Practice: Mental Health</td>
<td>W2</td>
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<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>SOWK 525-A_001</td>
<td>Social Work Practice with Individuals and Couples</td>
<td>W1</td>
<td></td>
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<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>SOWK 528-A_001</td>
<td>Social Work Practice with Groups</td>
<td>W2</td>
<td></td>
<td></td>
<td>In Person Learning</td>
<td>Thu</td>
</tr>
<tr>
<td>SOWK 529-A_001</td>
<td>Communities and Social Development: Debates, Approaches and Fields of Practice</td>
<td>W1</td>
<td></td>
<td></td>
<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>SOWK 531-001</td>
<td>Social Work Practice in the Field of Aging</td>
<td>W2</td>
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<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>SOWK 532-A_001</td>
<td>Social Work Practice with the Family</td>
<td>W2</td>
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<tr>
<td>SOWK 549-A_001</td>
<td>Master's Thesis</td>
<td>W1-2</td>
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<td>In Person Learning</td>
<td>Arranged</td>
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<tr>
<td>SOWK 550-001</td>
<td>Social Work and Social Justice</td>
<td>W1</td>
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<td>In Person Learning</td>
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</tbody>
</table>
In Person Learning

101

Directed Studies in Social Work

W1

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

In Person Learning

Thu

9:00 a.m. - 12:00 p.m.

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

In Person Learning

Thu

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

Health and Social Care Praxis

W1

In Person Learning

Fri

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

Qualitative Methods in Social Work Research

W1-2

Qualitative Methods in Social Work Research

W1-2

In Person Learning

Fri

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

Directed Field Studies in Social Work II

W1-2

Directed Field Studies in Social Work II

W1-2

In Person Learning

Arranged

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

Advanced Integrative Seminar

W1-2

Advanced Integrative Seminar

W1-2

In Person Learning

Arranged

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

Directed Studies in Social Work

W1

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

In Person Learning

Arranged

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

Social Work Doctoral Seminar

W2

In Person Learning

Wed

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

In Person Learning

Mon Wed Fri

5:00 p.m. - 8:00 p.m.

Advanced Qualitative Inquiry

W2

In Person Learning

Tue

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

Doctoral Dissertation

W1

In Person Learning

Arranged

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

Doctoral Dissertation

W1

In Person Learning

Arranged

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

Beginners’ Spanish I

Tue Thu

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

Critical examination of research, teaching, proposal writing and publication. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Wed

5:00 p.m. - 8:00 p.m.

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.

In Person Learning

Tue

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

In Person Learning

Arranged

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

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In Person Learning

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

In Person Learning

Arranged

2:00 p.m. - 5:00 p.m.
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<th>Course Code</th>
<th>Days</th>
<th>Time</th>
<th>Instructor</th>
<th>Notes</th>
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<tr>
<td>SPAN_V 101-107</td>
<td>W1</td>
<td>101 107</td>
<td>Beginners' Spanish</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-A2 objectives. Credit will be granted for either SPAN 101 or both SPAN 101, SPAN 102. In Person Learning Thu Tue 11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>SPAN_V 101-108</td>
<td>W1</td>
<td>101 108</td>
<td>Beginners' Spanish</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-A2 objectives. Credit will be granted for either SPAN 101 or both SPAN 101, SPAN 102. In Person Learning Thu Tue 12:30 p.m. - 2:00 p.m.</td>
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<tr>
<td>SPAN_V 101-109</td>
<td>W1</td>
<td>101 109</td>
<td>Beginners' Spanish</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-A2 objectives. Credit will be granted for either SPAN 101 or both SPAN 101, SPAN 102. In Person Learning Tue Thu 2:00 p.m. - 3:10 p.m.</td>
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<tr>
<td>SPAN_V 101-110</td>
<td>W1</td>
<td>101 110</td>
<td>Beginners' Spanish</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-A2 objectives. Credit will be granted for either SPAN 101 or both SPAN 101, SPAN 102. In Person Learning Wed Fri 2:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>SPAN_V 101-111</td>
<td>W1</td>
<td>101 111</td>
<td>Beginners' Spanish</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-A2 objectives. Credit will be granted for either SPAN 101 or both SPAN 101, SPAN 102. In Person Learning Mon Wed 9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>SPAN_V 101-112</td>
<td>W1</td>
<td>101 112</td>
<td>Beginners' Spanish</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-A2 objectives. Credit will be granted for either SPAN 101 or both SPAN 101, SPAN 102. In Person Learning Mon Wed 2:00 p.m. - 3:00 p.m.</td>
</tr>
<tr>
<td>SPAN_V 101-113</td>
<td>W1</td>
<td>101 113</td>
<td>Beginners' Spanish</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-A2 objectives. Credit will be granted for either SPAN 101 or both SPAN 101, SPAN 102. In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>SPAN_V 101-W01</td>
<td>W1</td>
<td>W01</td>
<td>Beginners' Spanish</td>
<td>Expansion of fundamentals. Enhanced ability to exchange information, discuss the past and future, and express wishes, hopes and feelings in common personal and social contexts. Aligned with CEFR level A1-A2 objectives. Credit will be granted for either SPAN 101, SPAN 102. Recommended pre-requisites: one of SPAN 101, SPAN 102, SPAN 103. In Person Learning Arranged Arranged</td>
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<tr>
<td>SPAN_V 102-201</td>
<td>W2</td>
<td>102 201</td>
<td>Beginners' Spanish</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 101 or both SPAN 101, SPAN 102. Recommended pre-requisites: SPAN 101. In Person Learning Mon Wed Fri 10:00 a.m. - 11:30 a.m.</td>
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<tr>
<td>SPAN_V 102-202</td>
<td>W2</td>
<td>102 202</td>
<td>Beginners' Spanish</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 101 or both SPAN 101, SPAN 102. Recommended pre-requisites: SPAN 101. In Person Learning Mon Wed Fri 11:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>SPAN_V 102-203</td>
<td>W2</td>
<td>102 203</td>
<td>Beginners' Spanish</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 101 or both SPAN 101, SPAN 102. Recommended pre-requisites: SPAN 101. In Person Learning Mon Wed Fri 12:00 p.m. - 1:00 p.m.</td>
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<tr>
<td>SPAN_V 102-204</td>
<td>W2</td>
<td>102 204</td>
<td>Beginners' Spanish</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 101 or both SPAN 101, SPAN 102. Recommended pre-requisites: SPAN 101. In Person Learning Mon Wed Fri 1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>SPAN_V 102-205</td>
<td>W2</td>
<td>102 205</td>
<td>Beginners' Spanish</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 101 or both SPAN 101, SPAN 102. Recommended pre-requisites: SPAN 101. In Person Learning Thu Tue 11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>SPAN_V 102-206</td>
<td>W2</td>
<td>102 206</td>
<td>Beginners' Spanish</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 101 or both SPAN 101, SPAN 102. Recommended pre-requisites: SPAN 101. In Person Learning Tue Thu 3:30 p.m. - 5:00 p.m.</td>
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<tr>
<td>SPAN_V 102-207</td>
<td>W2</td>
<td>102 207</td>
<td>Beginners' Spanish</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 101 or both SPAN 101, SPAN 102. Recommended pre-requisites: SPAN 101. In Person Learning Mon Wed Fri 5:00 p.m. - 7:00 p.m.</td>
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<tr>
<td>SPAN_V 102-208</td>
<td>W2</td>
<td>102 208</td>
<td>Beginners' Spanish</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 101 or both SPAN 101, SPAN 102. Recommended pre-requisites: SPAN 101. Hybrid Learning Mon Wed 2:00 p.m. - 3:30 p.m.</td>
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<tr>
<td>SPAN_V 102-W02</td>
<td>W2</td>
<td>W02</td>
<td>Beginners' Spanish</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-A2 objectives. Credit will be granted for either SPAN 101 or both SPAN 101, SPAN 102. Recommended pre-requisites: one of SPAN 101, SPAN 102, SPAN 103. In Person Learning Arranged Arranged</td>
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<tr>
<td>SPAN_V 103-101</td>
<td>W1</td>
<td>103 101</td>
<td>Intensive Beginners' Spanish</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 SPAN 101 or both SPAN 101, SPAN 102. Recommended pre-requisites: one of SPAN 101, SPAN 102, SPAN 103. In Person Learning Thu Tue 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>SPAN_V 103-102</td>
<td>W2</td>
<td>103 102</td>
<td>Intensive Beginners' Spanish</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-A2 objectives. Credit will be granted for either SPAN 101 or both SPAN 101, SPAN 102. Recommended pre-requisites: one of SPAN 101, SPAN 102, SPAN 103. In Person Learning Mon Wed 10:00 a.m. - 11:30 a.m.</td>
</tr>
<tr>
<td>SPAN_V 201-101</td>
<td>W1</td>
<td>201 101</td>
<td>Elementary Spanish</td>
<td>Intensive, Fundamentals. Enhanced ability to exchange information, discuss the past and future, and express wishes, hopes and feelings in common personal and social contexts. Aligned with CEFR level A1-A2 objectives. Credit will be granted for either SPAN 201 or both SPAN 201, SPAN 202. Recommended pre-requisites: one of SPAN 101, SPAN 102, SPAN 103. In Person Learning Thu Tue 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>CRN</td>
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<td>SPAN_V 201-104</td>
<td>201</td>
<td>104</td>
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<td>SPAN_V 201-105</td>
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<td>W05</td>
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<tr>
<td>SPAN_V 202-101</td>
<td>202</td>
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<td>SPAN_V 202-202</td>
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<td>Elementary Spanish II</td>
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<td>Elementary Spanish II</td>
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<td>Elementary Spanish II</td>
<td>W2</td>
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<tr>
<td>SPAN_V 202-205</td>
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<td>W02</td>
<td>Elementary Spanish II</td>
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<td>SPAN_V 203-101</td>
<td>203</td>
<td>101</td>
<td>Introductory Spanish</td>
<td>W2</td>
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<tr>
<td>SPAN_V 206-101</td>
<td>206</td>
<td>101</td>
<td>Conversational Spanish</td>
<td>W1</td>
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<tr>
<td>SPAN_V 221-101</td>
<td>221</td>
<td>101</td>
<td>Introduction to Hispanic Literature</td>
<td>W1</td>
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<tr>
<td>SPAN_V 221-055</td>
<td>221</td>
<td>W05</td>
<td>Introduction to Hispanic Literature</td>
<td>W1</td>
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<tr>
<td>SPAN_V 222-101</td>
<td>222</td>
<td>101</td>
<td>Introduction to Hispanic Culture</td>
<td>W2</td>
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<td>SPAN_V 280-101</td>
<td>280</td>
<td>101</td>
<td>Revolution (In English)</td>
<td>W1</td>
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<td>W05</td>
<td>Revolution (In English)</td>
<td>W1</td>
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<td>W1</td>
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<td>SPAN_V 301-102</td>
<td>301</td>
<td>102</td>
<td>Intermediate Spanish I</td>
<td>W1</td>
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<td>SPAN_V 301-055</td>
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<td>W05</td>
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<tr>
<td>SPAN_V 302-201</td>
<td>302</td>
<td>Intermediate Spanish II</td>
<td>W2</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<tr>
<td>SPAN_V 302-W02</td>
<td>302</td>
<td>Intermediate Spanish II</td>
<td>W2</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<tr>
<td>SPAN_V 389-201</td>
<td>389</td>
<td>Spanish for Business</td>
<td>W2</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<tr>
<td>SPAN_V 221-101</td>
<td>221</td>
<td>Tradition and Diversity in Spanish History and Culture</td>
<td>W1</td>
<td>10:00 a.m. - 11:50 a.m.</td>
</tr>
<tr>
<td>SPAN_V 257-101</td>
<td>257</td>
<td>The Golden Age of Peninsular Literature and Culture</td>
<td>W1</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<tr>
<td>SPAN_V 358-201</td>
<td>358</td>
<td>Divergent Visions: Peninsular Literature and Culture since 1700</td>
<td>W2</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<tr>
<td>SPAN_V 364-101</td>
<td>364</td>
<td>Colonial Encounters in Spanish-American Literature and Culture</td>
<td>W1</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<tr>
<td>SPAN_V 265-201</td>
<td>265</td>
<td>Modern Magics: Spanish-American Literature and Culture since the 1820s</td>
<td>W2</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<tr>
<td>SPAN_V 401-101</td>
<td>401</td>
<td>Upper Intermediate Spanish I</td>
<td>W1</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<tr>
<td>SPAN_V 403-101</td>
<td>403</td>
<td>History of the Spanish Language</td>
<td>W2</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<tr>
<td>SPAN_V 404-A_101</td>
<td>404</td>
<td>From World to Screen: Topics in Hispanic Cinema</td>
<td>W1</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<tr>
<td>SPAN_V 405_C_201</td>
<td>405</td>
<td>Peoples and Nations: Topics in Twentieth- and Twenty-First Century</td>
<td>W2</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<tr>
<td>SPAN_V 491_B_201</td>
<td>491</td>
<td>Research Intensive Seminar in Hispanic Literature and Culture</td>
<td>W2</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<tr>
<td>SPAN_V 499-101</td>
<td>499</td>
<td>Honors Essay</td>
<td>W1</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<tr>
<td>SPAN_V 501_B_201</td>
<td>501</td>
<td>Literary and Cultural Theory</td>
<td>W2</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<td>SPAN_V 502_B_201</td>
<td>502</td>
<td>Gender Representations in Hispanic Literatures and Cultures</td>
<td>W2</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<tr>
<td>SPAN_V 504_C_101</td>
<td>504</td>
<td>Hispanic Cinema</td>
<td>W1</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<td>SPAN_V 505_B_201</td>
<td>505</td>
<td>Transatlantic Hispanic Literatures and Cultures</td>
<td>W2</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<td>SPAN_V 549-101</td>
<td>549</td>
<td>Master's Thesis</td>
<td>W1</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<td>SPAN_V 549-101</td>
<td>549</td>
<td>Master's Thesis</td>
<td>W1</td>
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<td>SPAN_V 549-101</td>
<td>549</td>
<td>Master's Thesis</td>
<td>W1</td>
<td>10:00 a.m. - 11:50 a.m.</td>
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<td>SPHA_V 355</td>
<td>Online</td>
<td>Biostatistics</td>
<td>W2</td>
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<tr>
<td>SPHA_V 356</td>
<td>Hybrid</td>
<td>Social Determinants of Health</td>
<td>W1</td>
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<tr>
<td>SPHA_V 362</td>
<td>Hybrid</td>
<td>Health Care Law</td>
<td>W2</td>
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<td>SPHA_V 363</td>
<td>Hybrid</td>
<td>Ethics and Decision Making in Health Care</td>
<td>W2</td>
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<tr>
<td>SPHA_V 380</td>
<td>Online</td>
<td>Foundations in Health Leadership</td>
<td>W1</td>
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<tr>
<td>SPHA_V 381</td>
<td>Hybrid</td>
<td>Research Project</td>
<td>W1</td>
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<tr>
<td>SPHA_V 382</td>
<td>Hybrid</td>
<td>Research Project</td>
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<tr>
<td>SPHA_V 383</td>
<td>Hybrid</td>
<td>Research Project</td>
<td>W1-2</td>
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<tr>
<td>SPHA_V 390</td>
<td>Hybrid</td>
<td>Working in Global Health</td>
<td>W2</td>
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<tr>
<td>SPHA_V 391</td>
<td>Hybrid</td>
<td>Understanding the Sociocultural Determinants of the Health of Populations</td>
<td>W1</td>
<td>Tue</td>
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<tr>
<td>SPHA_V 392</td>
<td>Hybrid</td>
<td>Understanding the Sociocultural Determinants of the Health of Populations</td>
<td>W2</td>
<td>Tue</td>
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<tr>
<td>SPHA_V 393</td>
<td>Hybrid</td>
<td>Topics in Health Informatics for Health/Life Sciences Students</td>
<td>W1</td>
<td>Thu (Alternate weeks)</td>
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<tr>
<td>SPHA_V 394</td>
<td>Hybrid</td>
<td>Environmental Impacts on Human Health</td>
<td>W1</td>
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<td>SPHA_V 395</td>
<td>Hybrid</td>
<td>Canadian Health Care Policy</td>
<td>W1</td>
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<tr>
<td>SPHA_V 396</td>
<td>Hybrid</td>
<td>Selected Topics</td>
<td>W2</td>
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<td>SPHA_V 397</td>
<td>Hybrid</td>
<td>Selected Topics</td>
<td>W1</td>
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<td>SPHA_V 398</td>
<td>Hybrid</td>
<td>Selected Topics</td>
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<td>SPHA_V 399</td>
<td>Hybrid</td>
<td>Selected Topics</td>
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<tr>
<td>SPHA_V 400</td>
<td>Hybrid</td>
<td>Statistics for Health Research</td>
<td>W1</td>
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</tbody>
</table>
SPPH 513-002  
SPPH 513  
002  
Cancer Control and Epidemiology  
W2  
Collection and analysis of epidemiological data on cancer; genetic, occupational, and other risk factors; analytic techniques; cancer control; prevention; screening, early detection, and policy issues. This course is not eligible for Credit/D/Fail grading.  
Preerequisite: SPPH 521, or equivalent.
SPPH 512-002  
SPPH 512  
002  
The Design and Analysis of Clinical Trials  
W2  
Ethical considerations, intention-to-treat versus efficacy trials, principles of sampling and selection, methods of allocation and techniques of randomization, parallel versus cross over design, monitoring treatment outcomes, adverse effects, stopping rules, analytic techniques and data interpretation, and logistical issues in the management of clinical trials. This course is not eligible for Credit/D/Fail grading.  
Preerequisite: One of SPPH 522, SPPH 532.
SPPH 511-002  
SPPH 511  
003  
Clinical Epidemiology  
W2  
Principles and methods of epidemiology are applied to clinical problems. Evaluation and design of laboratory and clinical tests and of therapeutic interventions.  
Preerequisite: Either (a) SPPH 400 or (b) SPPH 522, and SPPH 522.
SPPH 514-002  
SPPH 514  
002  
Decision Analysis in Health Care  
W2  
Methods and application of decision analysis to improve health from the perspective of the policy maker, health professional, and patient.  
Preerequisite: Either (a) SPPH 400 or (b) SPPH 522, and SPPH 522.
SPPH 515-002  
SPPH 515  
002  
Surveillance and Monitoring in Public Health  
W2  
Preparation: Either (a) SPPH 400 or (b) SPPH 522, and SPPH 522.  
In Person Learning
SPPH 516-002  
SPPH 516  
001  
Methods for Systematic Reviews in Health Research  
W1  
This course is not eligible for Credit/D/Fail grading.
SPPH 519-W82  
SPPH 519  
W82  
Qualitative Methods in Health Research Design  
W2  
This course is not eligible for Credit/D/Fail grading.
SPPH 520-002  
SPPH 520  
002  
Control of Communicable Disease  
W2  
Epidemiology of viral, bacterial and parasitic infections with emphasis on the control of these infections in human populations. Interruption programs will be stressed.  
Preerequisite: Either (a) SPPH 400 or (b) SPPH 522, and SPPH 522.
SPPH 521-002  
SPPH 521  
002  
Statistics for Health Research  
W1  
This course is not eligible for Credit/D/Fail grading.
SPPH 522-002  
SPPH 522  
002  
Global Health and Human Security  
W2  
Global threats to human health stemming from conflict, poverty, and environmental degradation. This course is not eligible for Credit/D/Fail grading.
SPPH 523-002  
SPPH 523  
002  
Leadership in Public Health  
W2  
Organizational structure; engaging others in an organization; inter-organizational networking; building coalitions; identification of opportunities to bring change to organizations through knowledge development, management, synthesis, and implementation. This course is not eligible for Credit/D/Fail grading.
SPPH 526-002  
SPPH 526  
002  
Leadership in Public Health  
W2  
Organizational structure; engaging others in an organization; inter-organizational networking; building coalitions; identification of opportunities to bring change to organizations through knowledge development, management, synthesis, and implementation. This course is not eligible for Credit/D/Fail grading.
SPPH 526-003  
SPPH 526  
003  
Leadership in Public Health  
W1  
Organizational structure; engaging others in an organization; inter-organizational networking; building coalitions; identification of opportunities to bring change to organizations through knowledge development, management, synthesis, and implementation. This course is not eligible for Credit/D/Fail grading.
SPPH 526-004  
SPPH 526  
004  
Leadership in Public Health  
W2  
Organizational structure; engaging others in an organization; inter-organizational networking; building coalitions; identification of opportunities to bring change to organizations through knowledge development, management, synthesis, and implementation. This course is not eligible for Credit/D/Fail grading.
SPPH 527-001  
SPPH 527  
001  
Social Determinants of Health  
W1  
Foundational thinking geared to the concept of population health - Overview of the current state of research. This course is not eligible for Credit/D/Fail grading.
SPPH 527-002  
SPPH 527  
002  
Social Determinants of Health  
W2  
Foundational thinking geared to the concept of population health - Overview of the current state of research. This course is not eligible for Credit/D/Fail grading.
SPPH 528-001  
SPPH 528  
001  
Major Essay  
W1  
Required for all M.H.Sc. students.  
Pass/Fail
SPPH 528-002  
SPPH 528  
002  
Major Essay  
W2  
Required for all M.H.Sc. students.  
Pass/Fail
SPPH 529-001  
SPPH 529  
001  
Major Essay  
W1-2  
Required for all M.H.Sc. students.  
Pass/Fail
SPPH 529-002  
SPPH 529  
002  
Major Essay  
W2  
Required for all M.H.Sc. students.  
Pass/Fail
SPPH 532-002  
SPPH 532  
002  
Environmental Health Risk Assessment and Communication  
W2  
This course is not eligible for Credit/D/Fail grading.
SPPH 533-002  
SPPH 533  
002  
Toxicology and Public Health  
W2  
Mechanism of action of community encountered occupational toxic agents; relevance of laboratory and epidemiological evidence. This course is not eligible for Credit/D/Fail grading.  
Preerequisite: Permission of instructor

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**In Person Learning**

- Mon, 2:00 p.m. - 5:00 p.m.
- Tue, 1:00 p.m. - 4:00 p.m.
- Wed, 9:00 a.m. - 12:00 p.m.
- Thu, 9:30 a.m. - 12:30 p.m.
- Fri, 9:30 a.m. - 12:30 p.m.
- Fri, 12:30 p.m. - 2:00 p.m.
- Mon, 9:00 a.m. - 12:00 p.m.
- Wed, 9:30 a.m. - 12:30 p.m.
- Thu, 9:00 a.m. - 12:00 p.m.
- Thu, 1:00 p.m. - 4:00 p.m.
- Thu, 9:00 a.m. - 12:00 p.m.
- Thu, 2:00 p.m. - 5:00 p.m.
- Fri, 9:00 a.m. - 12:00 p.m.
- Fri, 12:30 p.m. - 2:00 p.m.
- Mon, 9:00 a.m. - 12:00 p.m.
- Wed, 9:30 a.m. - 12:30 p.m.
- Thu, 9:00 a.m. - 12:00 p.m.
- Thu, 2:00 p.m. - 5:00 p.m.
- Fri, 9:00 a.m. - 12:00 p.m.

**Hybrid Learning**

- Tue (Alternate weeks), 2:00 p.m. - 5:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Delivery</th>
<th>Days</th>
<th>Time</th>
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<tbody>
<tr>
<td>SPPH 535-001</td>
<td>Principles of Occupational and Environmental Hygiene</td>
<td>0.01</td>
<td>Scientific basis for the recognition, evaluation, and control of chemical, physical, and biological, exposure; standard setting; exposure monitoring methods. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>10:30 a.m. -12:00 p.m.</td>
</tr>
<tr>
<td>SPPH 536-002</td>
<td>Aboriginal People and Public Health Ethics, Policy, and Practice</td>
<td>0.02</td>
<td>Experience of colonization; Indian Act; the historic and intergenerational impact of the residential school; child-welfare systems; communicable disease prevention; the challenges of ethical public health practice; and traditional healing. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>4:00 p.m. - 7:00 p.m.</td>
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<tr>
<td>SPPH 537-001</td>
<td>Perinatal Epidemiology</td>
<td>0.01</td>
<td>Indicators of maternal/fetal well-being across population subgroups, changing trends in obstetrical intervention, perinatal mortality, and the analysis of perinatal data. Prerequisite: Either (a) SPPH 460 or (b) SPPH 512; and SPPH 552. Corequisite: SPPH 560 EquiPeptid. D87 137.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>3:30 p.m. - 6:30 p.m.</td>
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<tr>
<td>SPPH 538-002</td>
<td>Application of Ethical Theories in the Practice of Public Health</td>
<td>0.02</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>SPPH 540-002</td>
<td>Program Planning and Evaluation</td>
<td>0.02</td>
<td>Examines the concept of evaluation in health services and how various methodological approaches can be used in evaluative studies. Prerequisite: Either (a) SPPH 400 or (b) SPPH 521; and SPPH 552.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>SPPH 541-001</td>
<td>Economic Evaluation</td>
<td>0.01</td>
<td>Economic evaluation of health service interventions and programs, with emphasis on methods and components of program costing. Prerequisite: Either (a) SPPH 400 or (b) SPPH 521; and SPPH 552.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>SPPH 541-002</td>
<td>Economic Evaluation</td>
<td>0.02</td>
<td>Economic evaluation of health service interventions and programs, with emphasis on methods and components of program costing. Prerequisite: Either (a) SPPH 400 or (b) SPPH 521; and SPPH 552.</td>
<td>Arranged</td>
<td></td>
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</tr>
<tr>
<td>SPPH 542-001</td>
<td>Canadian Health Policy</td>
<td>0.01</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>
<td>Mon</td>
<td>8:00 a.m. - 10:30 a.m.</td>
</tr>
<tr>
<td>SPPH 545-001</td>
<td>Community Health Promotion</td>
<td>0.01</td>
<td>Practice and community-based (participatory) research related to health promotion, including the sociocultural, philosophical, and historical dimensions. Application of social and behavioral 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>
<td>Arranged</td>
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</tr>
<tr>
<td>SPPH 546-001</td>
<td>Introduction to Health Economics</td>
<td>0.01</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>
<td>Thu</td>
<td>9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>SPPH 547-B2</td>
<td>Health Care Priority Setting</td>
<td>0.02</td>
<td>Resource allocation, economics and ethics-based approaches for decision making, uptake of evidence to inform resource use in health care. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>SPPH 548-001</td>
<td>Knowledge to Action in Population Health</td>
<td>0.01</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>
<td>Mon</td>
<td>1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>SPPH 550-001</td>
<td>Public Health Approaches to Substance Use and Addictions</td>
<td>0.01</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>
<td>Tue</td>
<td>9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>SPPH 551-002</td>
<td>Pharmacoeconomics</td>
<td>0.02</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>
<td>Wed</td>
<td>1:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>SPPH 552-B2</td>
<td>Science and Risk Communication for Public Health</td>
<td>0.01</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>Hybrid Learning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPPH 553-B2</td>
<td>Science and Risk Communication for Public Health</td>
<td>0.02</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>Arranged</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPPH 553-001</td>
<td>Foundations of Public Health Computing</td>
<td>0.01</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.</td>
<td>In Person Learning</td>
<td>Thu</td>
<td>2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>SPPH 562-002</td>
<td>Chemical and Biological Hazard Measurement</td>
<td>0.02</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>
<td>Thu</td>
<td>2:00 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>SPPH 563-001</td>
<td>Technical Aspects of Occupational Hygiene Hazard Controls</td>
<td>0.01</td>
<td>Industrial ventilation, heating and air conditioning systems, respiratory protection, chemical protective clothing. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>SPPH 564-002</td>
<td>Advanced Topics in Occupational and Environmental Health</td>
<td>0.02</td>
<td>Recommended SPPH 517 or an equivalent statistics or quantitative course is recommended. This course is not eligible for Credit/D/Fail grading. Prerequisite: All of SPPH 510, SPPH 552, Corequisite: SPPH 552.</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>2:00 p.m. - 5:00 p.m.</td>
</tr>
<tr>
<td>SPPH 565-001</td>
<td>Ergonomics</td>
<td>0.01</td>
<td>Human factors in workplace design, orthepmsy, work physiology. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td></td>
</tr>
<tr>
<td>SPPH 566-002</td>
<td>Ergonomics</td>
<td>0.02</td>
<td>Human factors in workplace design, orthepmsy, work physiology. This course is not eligible for Credit/D/Fail grading.</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>9:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>SPPH 568-001</td>
<td>Occupational Hygiene Practice</td>
<td>0.01</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>
<td>Mon</td>
<td>1:30 p.m. - 3:00 p.m.</td>
</tr>
</tbody>
</table>
11:00 a.m. - 12:30 p.m.  

In Person Learning  

Determined of exposure, sampling strategies. This course is not eligible for Credit/D/Fail grading.  

In Person Learning  

5:00 p.m. - 7:00 p.m.  

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

In Person Learning  

Directed Studies  

Occupational and Environmental Hygiene Project  

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

In Person Learning  

Occupational and Environmental Hygiene Project  

Applied project on approved topic based on practicum: requires a written and oral report. This course is not eligible for Credit/D/Fail grading.  

In Person Learning  

Occupational and Environmental Hygiene Project  

Applied project on approved topic based on practicum: requires a written and oral report. This course is not eligible for Credit/D/Fail grading.  

In Person Learning  

Occupational and Environmental Hygiene Project  

Applied project on approved topic based on practicum: requires a written and oral report. This course is not eligible for Credit/D/Fail grading.  

In Person Learning  

Occupational and Environmental Hygiene Project  

Applied project on approved topic based on practicum: requires a written and oral report. This course is not eligible for Credit/D/Fail grading.  

In Person Learning  

Occupational and Environmental Hygiene Project  

Applied project on approved topic based on practicum: requires a written and oral report. This course is not eligible for Credit/D/Fail grading.  

In Person Learning  

Occupational and Environmental Hygiene Project  

Applied project on approved topic based on practicum: requires a written and oral report. This course is not eligible for Credit/D/Fail grading.  

In Person Learning  

Occupational and Environmental Hygiene Project  

Applied project on approved topic based on practicum: requires a written and oral report. This course is not eligible for Credit/D/Fail grading.  

In Person Learning  

Occupational and Environmental Hygiene Project  

Applied project on approved topic based on practicum: requires a written and oral report. This course is not eligible for Credit/D/Fail grading.  

In Person Learning  

Occupational and Environmental Hygiene Project  

Applied project on approved topic based on practicum: requires a written and oral report. This course is not eligible for Credit/D/Fail grading.  

In Person Learning
In Person Learning
Arranged
681
In Person Learning
001
2:00 p.m. - 3:00 p.m.
W1
W1-2
Pass/Fail.
10:00 a.m. - 11:00 a.m.
M.Sc. Thesis
9:00 a.m. - 11:30 a.m.
In Person Learning
003
T01
200
In Person Learning
STAT_V
002
607
STAT_V
In Person Learning
W1
W1-L1B
W2
A
2:00 p.m. - 5:00 p.m.
101
Selected Topics
Application of Advanced Epidemiological Methods
Arranged
In Person Learning
Arranged
Thu
002
699
Ph.D. Research Seminar
Arranged
WB1
In Person Learning
200
621
Elementary Statistics for Applications
STAT_V
W1
BL1
Doctoral Dissertation
Doctoral Dissertation
In Person Learning
Mon Wed Fri
Arranged
202
W1
200
699
Wed
Mon
599
Arranged
Pass/Fail.
604
STAT_V
W1-2
9:00 a.m. - 10:00 a.m.
Doctoral Dissertation
200
103
003
2:00 p.m. - 3:00 p.m.
In Person Learning
2:00 p.m. - 6:00 p.m.
L1A
In Person Learning
Hybrid Learning
Mon Wed Fri
002
200
699
Mon
Wed
Fri (Alternate weeks)
9:00 a.m. - 11:30 a.m.
PASS/FINAL
Ph.D. Research Seminar
Pass/Final
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.

STAT_V 200-101
Elementary Statistics for Applications
W1-2
Pass/Fail.
This course is not eligible for Credit/D/Fail grading.
In Person Learning
Arranged
Arranged

STAT_V 200-103
Elementary Statistics for Applications
W1-2
Pass/Fail.
This course is not eligible for Credit/D/Fail grading.
In Person Learning
Arranged
Arranged

STAT_V 200-202
Elementary Statistics for Applications
W2
Pass/Fail.
This course is not eligible for Credit/D/Fail grading.
In Person Learning
Arranged
Arranged

STAT_V 200-LLA
Elementary Statistics for Applications
W1-2
Pass/Fail.
This course is not eligible for Credit/D/Fail grading.
In Person Learning
Mon
33 05 a.m. - 11:30 a.m.

STAT_V 200-LLB
Elementary Statistics for Applications
W1-2
Pass/Fail.
This course is not eligible for Credit/D/Fail grading.
In Person Learning
Mon
33 05 a.m. - 11:30 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, SCIE 100.

Elementary Statistics for Applications

In Person Learning

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

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

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

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

W1-2

L1G

Thu

L1M

Thu

L1D

Wed

L1F

Wed

L1E

Wed

L1H

Wed

L1J

In Person Learning

Tue

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

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

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

3:00 a.m. - 4:00 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, SCIE 100.

Elementary Statistics for Applications

In Person Learning

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

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

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

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

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

W1-2

L1I

Thu

L1K

Thu

L1E

Thu

L1M

Thu

L1N

Thu

L1M

Thu
<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>
</tr>
</thead>
<tbody>
<tr>
<td>STAT_V 200-L1N</td>
<td>STAT_V</td>
<td>Elementary Statistics for Applications</td>
<td>W1-2</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>W1-2</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>STAT_V 200-L1O</td>
<td>STAT_V</td>
<td>Elementary Statistics for Applications</td>
<td>W1-2</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>W1-2</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>STAT_V 200-L1P</td>
<td>STAT_V</td>
<td>Elementary Statistics for Applications</td>
<td>W1-2</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>W1-2</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>STAT_V 200-L1Q</td>
<td>STAT_V</td>
<td>Elementary Statistics for Applications</td>
<td>W1-2</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>W1-2</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>STAT_V 200-L1R</td>
<td>STAT_V</td>
<td>Elementary Statistics for Applications</td>
<td>W1-2</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>W1-2</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>STAT_V 200-L1S</td>
<td>STAT_V</td>
<td>Elementary Statistics for Applications</td>
<td>W1-2</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>W1-2</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>STAT_V 200-L1T</td>
<td>STAT_V</td>
<td>Elementary Statistics for Applications</td>
<td>W1-2</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>W1-2</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>STAT_V 200-L2A</td>
<td>STAT_V</td>
<td>Elementary Statistics for Applications</td>
<td>W2</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>STAT_V 200-L2B</td>
<td>STAT_V</td>
<td>Elementary Statistics for Applications</td>
<td>W2</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>STAT_V 200-L2C</td>
<td>STAT_V</td>
<td>Elementary Statistics for Applications</td>
<td>W2</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>STAT_V 200-L2D</td>
<td>STAT_V</td>
<td>Elementary Statistics for Applications</td>
<td>W2</td>
<td>4:00 p.m. - 5:00 p.m.</td>
<td>W2</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Days</td>
<td>Time</td>
<td>Location</td>
<td>Prerequisite</td>
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</tr>
<tr>
<td>STAT 201-12E</td>
<td>Elementary Statistics for Applications</td>
<td>0.5</td>
<td>W2</td>
<td>4:00 p.m.</td>
<td>In Person Learning</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>STAT 201-12F</td>
<td>Elementary Statistics for Applications</td>
<td>0.5</td>
<td>W2</td>
<td>5:30 p.m.</td>
<td>In Person Learning</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>STAT 201-12G</td>
<td>Elementary Statistics for Applications</td>
<td>0.5</td>
<td>W2</td>
<td>1:00 p.m.</td>
<td>In Person Learning</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>STAT 201-12H</td>
<td>Elementary Statistics for Applications</td>
<td>0.5</td>
<td>W2</td>
<td>2:00 p.m.</td>
<td>In Person Learning</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>DSCI 100</td>
<td>Statistical Inference for Data Science</td>
<td>3.0</td>
<td>W2</td>
<td>11:00 a.m.</td>
<td>In Person Learning</td>
<td>SCIE 001, MATH 190</td>
</tr>
<tr>
<td>STAT 201-201</td>
<td>Statistical Inference for Data Science</td>
<td>3.0</td>
<td>W1</td>
<td>9:00 a.m.</td>
<td>In Person Learning</td>
<td>SCIE 001, MATH 190</td>
</tr>
<tr>
<td>STAT 201-202</td>
<td>Statistical Inference for Data Science</td>
<td>3.0</td>
<td>W1</td>
<td>12:00 p.m.</td>
<td>In Person Learning</td>
<td>SCIE 001, MATH 190</td>
</tr>
<tr>
<td>STAT 201-203</td>
<td>Statistical Inference for Data Science</td>
<td>3.0</td>
<td>W1</td>
<td>3:00 p.m.</td>
<td>In Person Learning</td>
<td>SCIE 001, MATH 190</td>
</tr>
<tr>
<td>STAT 201-204</td>
<td>Statistical Inference for Data Science</td>
<td>3.0</td>
<td>W1</td>
<td>6:00 p.m.</td>
<td>In Person Learning</td>
<td>SCIE 001, MATH 190</td>
</tr>
<tr>
<td>STAT 201-205</td>
<td>Statistical Inference for Data Science</td>
<td>3.0</td>
<td>W1</td>
<td>9:00 a.m.</td>
<td>In Person Learning</td>
<td>SCIE 001, MATH 190</td>
</tr>
<tr>
<td>STAT 201-206</td>
<td>Statistical Inference for Data Science</td>
<td>3.0</td>
<td>W1</td>
<td>12:00 p.m.</td>
<td>In Person Learning</td>
<td>SCIE 001, MATH 190</td>
</tr>
<tr>
<td>STAT 201-207</td>
<td>Statistical Inference for Data Science</td>
<td>3.0</td>
<td>W1</td>
<td>3:00 p.m.</td>
<td>In Person Learning</td>
<td>SCIE 001, MATH 190</td>
</tr>
<tr>
<td>STAT 201-208</td>
<td>Statistical Inference for Data Science</td>
<td>3.0</td>
<td>W1</td>
<td>6:00 p.m.</td>
<td>In Person Learning</td>
<td>SCIE 001, MATH 190</td>
</tr>
<tr>
<td>STAT 201-209</td>
<td>Statistical Inference for Data Science</td>
<td>3.0</td>
<td>W1</td>
<td>9:00 a.m.</td>
<td>In Person Learning</td>
<td>SCIE 001, MATH 190</td>
</tr>
</tbody>
</table>

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-sciences/credit-exclusion-lists. One of any course on the MATH 100 credit exclusion list. In Person Learning. Thursday. 11:00 a.m. - 12:30 p.m.
STAT_3 203-T1B
STAT_3 203-T1B Statistical Methods
WI 1 Organizing, displaying and summarizing data, inference estimation and testing for elementary probability models. Not for credit towards a B. Sc. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar) 13-1-0 Prerequisite: MATH 101. Or Pre calculus 11. In Person Learning Fri 2:00 p.m. - 3:00 p.m.

STAT_3 203-T1C
STAT_3 203-T1C Statistical Methods
WI 1 Organizing, displaying and summarizing data, inference estimation and testing for elementary probability models. Not for credit towards a B. Sc. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar) 13-1-0 Prerequisite: MATH 101. Or Pre calculus 11. In Person Learning Arranged Arranged

STAT_3 203-T1D
STAT_3 203-T1D Statistical Methods
WI 1 Organizing, displaying and summarizing data, inference estimation and testing for elementary probability models. Not for credit towards a B. Sc. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar) 13-1-0 Prerequisite: MATH 101. Or Pre calculus 11. In Person Learning Men 12:00 p.m. - 1:00 p.m.

STAT_3 203-T1E
STAT_3 203-T1E Statistical Methods
WI 1 Organizing, displaying and summarizing data, inference estimation and testing for elementary probability models. Not for credit towards a B. Sc. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar) 13-1-0 Prerequisite: MATH 101. Or Pre calculus 11. In Person Learning Wed 12:00 p.m. - 1:00 p.m.

STAT_3 203-T1F
STAT_3 203-T1F Statistical Methods
WI 1 Organizing, displaying and summarizing data, inference estimation and testing for elementary probability models. Not for credit towards a B. Sc. (Consult the Credit Exclusion list within the Faculty of Science section of the Calendar) 13-1-0 Prerequisite: MATH 101. Or Pre calculus 11. In Person Learning Fri 12:00 p.m. - 1:00 p.m.

STAT_3 203-T1G
STAT_3 203-T1G Statistical Methods
WI 1 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) 13-1-0 Prerequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Fri 3:00 p.m. - 4:00 p.m.

STAT_3 251-101
STAT_3 251-101 Elementary Statistics
WI-2 101, MATH 105, MATH 121, SCIE 001. In Person Learning Mon Fri 8:00 a.m. - 9:00 a.m.

STAT_3 251-201
STAT_3 251-201 Elementary Statistics
WI-2 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) 13-1-0 Prerequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Mon Fri 8:00 a.m. - 9:00 a.m.

STAT_3 251-201A
STAT_3 251-201A Elementary Statistics
WI-2 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) 13-1-0 Prerequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Mon 12:00 p.m. - 1:00 p.m.

STAT_3 251-201B
STAT_3 251-201B Elementary Statistics
WI-2 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) 13-1-0 Prerequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Tue 8:00 a.m. - 9:00 a.m.

STAT_3 251-201C
STAT_3 251-201C Elementary Statistics
WI-2 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) 13-1-0 Prerequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Wed 12:00 p.m. - 1:00 p.m.

STAT_3 251-201D
STAT_3 251-201D Elementary Statistics
WI-2 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) 13-1-0 Prerequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Wed 5:00 p.m. - 6:00 p.m.

STAT_3 251-201E
STAT_3 251-201E Elementary Statistics
WI-2 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) 13-1-0 Prerequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Fri 9:00 a.m. - 10:00 a.m.

STAT_3 251-201F
STAT_3 251-201F Elementary Statistics
WI-2 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) 13-1-0 Prerequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Fri 9:00 a.m. - 10:00 a.m.

STAT_3 251-201G
STAT_3 251-201G Elementary Statistics
WI-2 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) 13-1-0 Prerequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Fri 12:00 p.m. - 1:00 p.m.

STAT_3 251-201H
STAT_3 251-201H Elementary Statistics
WI-2 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) 13-1-0 Prerequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Fri 12:00 p.m. - 1:00 p.m.

STAT_3 251-201I
STAT_3 251-201I Elementary Statistics
WI-2 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) 13-1-0 Prerequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Fri 12:00 p.m. - 1:00 p.m.

STAT_3 251-201J
STAT_3 251-201J Elementary Statistics
WI-2 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) 13-1-0 Prerequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Fri 12:00 p.m. - 1:00 p.m.

STAT_3 251-201K
STAT_3 251-201K Elementary Statistics
WI-2 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) 13-1-0 Prerequisite: One of MATH 101, MATH 105, MATH 121, SCIE 001. In Person Learning Fri 12:00 p.m. - 1:00 p.m.
STATISTRY COURSES

12:00 p.m. - 1:00 p.m.  
L1A  
In Person Learning  
251  
Arranged  

3:00 p.m. - 4:00 p.m.  
Elementary Statistics  
Intermediate Statistics for Applications  
251  
Arranged  

Elementary Statistics  
W2  
Wed  

2:00 p.m. - 3:00 p.m.  
Elementary Statistics  
Arranged  
In Person Learning  
251  
Wed  
Fri  
L2J  

4:00 p.m. - 5:00 p.m.  
300  
Elementary Statistics  
L1D  

10:00 a.m. - 11:00 a.m.  
W2  
W1  

1:00 p.m. - 2:00 p.m.  
300  
251  
Arranged  

8:00 a.m. - 9:00 a.m.  
Thu  
W1  
251  
In Person Learning  
W1  
In Person Learning  

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 203, STAT 241, STAT 251, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, FRST 231, KIN 206, LFS 252, POLI 380, PSYC 218, PSYC 278. Equivalency: COMM 411.

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 203, STAT 241, STAT 251, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, FRST 231, KIN 206, LFS 252, POLI 380, PSYC 218, PSYC 278. Equivalency: COMM 411.

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 203, STAT 241, STAT 251, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, FRST 231, KIN 206, LFS 252, POLI 380, PSYC 218, PSYC 278. Equivalency: COMM 411.

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 203, STAT 241, STAT 251, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, FRST 231, KIN 206, LFS 252, POLI 380, PSYC 218, PSYC 278. Equivalency: COMM 411.

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 203, STAT 241, STAT 251, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, FRST 231, KIN 206, LFS 252, POLI 380, PSYC 218, PSYC 278. Equivalency: COMM 411.

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 203, STAT 241, STAT 251, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, FRST 231, KIN 206, LFS 252, POLI 380, PSYC 218, PSYC 278. Equivalency: COMM 411.

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 203, STAT 241, STAT 251, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, FRST 231, KIN 206, LFS 252, POLI 380, PSYC 218, PSYC 278. Equivalency: COMM 411.

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 203, STAT 241, STAT 251, BIOL 300, BUSI 291, COMM 191, COMM 291, ECON 325, FRST 231, KIN 206, LFS 252, POLI 380, PSYC 218, PSYC 278. Equivalency: COMM 411.
**STAT_V 300-L1H** | **STAT_V** | 300 | L1H | Intermediate Statistics for Applications | W1 | In Person Learning | Arranged | Arranged
---|---|---|---|---|---|---|---
**STAT_V 300-L1I** | **STAT_V** | 300 | L1I | Intermediate Statistics for Applications | W1 | In Person Learning | Arranged | Arranged
**STAT_V 300-L1A** | **STAT_V** | 300 | L1A | Intermediate Statistics for Applications | W2 | In Person Learning | Tue | Tue
**STAT_V 300-L2B** | **STAT_V** | 300 | L2B | Intermediate Statistics for Applications | W2 | In Person Learning | Tue | Tue
**STAT_V 300-L2C** | **STAT_V** | 300 | L2C | Intermediate Statistics for Applications | W2 | In Person Learning | Tue | Tue
**STAT_V 300-L2D** | **STAT_V** | 300 | L2D | Intermediate Statistics for Applications | W2 | In Person Learning | Thu | Thu

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 201, STAT 211, BIOL 300, BUSI 291, COMM 191, COMM 201, ECON 325, ECON 327, FST 211, FST 213, FST 214, VIN 252, POLI 218, POLI 219, POLI 274. Equivalency: COMW111

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 201, STAT 211, BIOL 300, BUSI 291, COMM 191, COMM 201, ECON 325, ECON 327, FST 211, FST 213, FST 214, VIN 252, POLI 218, POLI 219, POLI 274. Equivalency: COMW111

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 201, STAT 211, BIOL 300, BUSI 291, COMM 191, COMM 201, ECON 325, ECON 327, FST 211, FST 213, FST 214, VIN 252, POLI 218, POLI 219, POLI 274. Equivalency: COMW111

Data analysis using statistical models and algorithms (e.g., linear and logistic regression, peaking, banding, and variable selection algorithms) in case studies from different disciplines. Generative versus out-of-sample predictive models. Reproducible and transparent workflows for computer scripts and reports. [3-0-1] Prerequisite: STAT 201 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184, SCI 003.

Data analysis using statistical models and algorithms (e.g., linear and logistic regression, peaking, banding, and variable selection algorithms) in case studies from different disciplines. Generative versus out-of-sample predictive models. Reproducible and transparent workflows for computer scripts and reports. [3-0-1] Prerequisite: STAT 201 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184, SCI 003.

Basic notions of probability, random variables, expectation and conditional expectations, limit theorems. [Consult the Credit Exclusion list within the Faculty of Science section in the Calendar.] [1-0-0] Prerequisite: One of STAT 100, STAT 102, STAT 200, ECON 325, ECON 327, FST 211, FST 213, FST 214, VIN 252, POLI 218, POLI 219, POLI 274. Equivalency: MATH102

Basic notions of probability, random variables, expectation and conditional expectations, limit theorems. [Consult the Credit Exclusion list within the Faculty of Science section in the Calendar.] [1-0-0] Prerequisite: One of STAT 100, STAT 102, STAT 200, ECON 325, ECON 327, FST 211, FST 213, FST 214, VIN 252, POLI 218, POLI 219, POLI 274. Equivalency: MATH102

Basic notions of probability, random variables, expectation and conditional expectations, limit theorems. [Consult the Credit Exclusion list within the Faculty of Science section in the Calendar.] [1-0-0] Prerequisite: One of STAT 100, STAT 102, STAT 200, ECON 325, ECON 327, FST 211, FST 213, FST 214, VIN 252, POLI 218, POLI 219, POLI 274. Equivalency: MATH102

Data analysis using statistical models and algorithms (e.g., linear and logistic regression, peaking, banding, and variable selection algorithms) in case studies from different disciplines. Generative versus out-of-sample predictive models. Reproducible and transparent workflows for computer scripts and reports. [3-0-1] Prerequisite: STAT 201 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184, SCI 003.

Data analysis using statistical models and algorithms (e.g., linear and logistic regression, peaking, banding, and variable selection algorithms) in case studies from different disciplines. Generative versus out-of-sample predictive models. Reproducible and transparent workflows for computer scripts and reports. [3-0-1] Prerequisite: STAT 201 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184, SCI 003.

Data analysis using statistical models and algorithms (e.g., linear and logistic regression, peaking, banding, and variable selection algorithms) in case studies from different disciplines. Generative versus out-of-sample predictive models. Reproducible and transparent workflows for computer scripts and reports. [3-0-1] Prerequisite: STAT 201 and one of MATH 100, MATH 102, MATH 104, MATH 110, MATH 120, MATH 180, MATH 184, SCI 003.

Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, maximum likelihood ratio testing and confidence interval construction. [3-0-1] Prerequisite: Either one of STAT 200, STAT 203, BIOL 300, STAT 211, COMM 201, ECON 225, FST 211, FST 213, FST 214, VIN 252, POLI 218, POLI 219, POLI 274. The Department recommends that students meet the prerequisite through option (a).

Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, maximum likelihood ratio testing and confidence interval construction. [3-0-1] Prerequisite: Either one of STAT 200, STAT 203, BIOL 300, STAT 211, COMM 201, ECON 225, FST 211, FST 213, FST 214, VIN 252, POLI 218, POLI 219, POLI 274. The Department recommends that students meet the prerequisite through option (a).
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. (3-0-0) Prerequisite: Either (i) one of STAT 200, STAT 203, MATH 200, STAT 202, STAT 211, COMM 290, ECON 225, FRST 211, PSYC 216, PSYC 246 and one of MATH 202, STAT 302, or (ii) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (i).

STAT_V 305-L1A STAT_V 306 L1A Introduction to Statistical Inference W1-2

Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. (3-0-0) Prerequisite: Either (i) one of STAT 200, STAT 203, MATH 200, STAT 202, STAT 211, COMM 290, ECON 225, FRST 211, PSYC 216, PSYC 246 and one of MATH 202, STAT 302, or (ii) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (i).

STAT_V 305-L1B STAT_V 306 L1B Introduction to Statistical Inference W1-2

Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. (3-0-0) Prerequisite: Either (i) one of STAT 200, STAT 203, MATH 200, STAT 202, STAT 211, COMM 290, ECON 225, FRST 211, PSYC 216, PSYC 246 and one of MATH 202, STAT 302, or (ii) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (i).

STAT_V 305-L1C STAT_V 306 L1C Introduction to Statistical Inference W1-2

Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. (3-0-0) Prerequisite: Either (i) one of STAT 200, STAT 203, MATH 200, STAT 202, STAT 211, COMM 290, ECON 225, FRST 211, PSYC 216, PSYC 246 and one of MATH 202, STAT 302, or (ii) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (i).

STAT_V 305-L1D STAT_V 306 L1D Introduction to Statistical Inference W1-2

Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. (3-0-0) Prerequisite: Either (i) one of STAT 200, STAT 203, MATH 200, STAT 202, STAT 211, COMM 290, ECON 225, FRST 211, PSYC 216, PSYC 246 and one of MATH 202, STAT 302, or (ii) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (i).

STAT_V 305-L2A STAT_V 306 L2A Introduction to Statistical Inference W2

Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. (3-0-0) Prerequisite: Either (i) one of STAT 200, STAT 203, MATH 200, STAT 202, STAT 211, COMM 290, ECON 225, FRST 211, PSYC 216, PSYC 246 and one of MATH 202, STAT 302, or (ii) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (i).

STAT_V 305-L2B STAT_V 306 L2B Introduction to Statistical Inference W2

Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. (3-0-0) Prerequisite: Either (i) one of STAT 200, STAT 203, MATH 200, STAT 202, STAT 211, COMM 290, ECON 225, FRST 211, PSYC 216, PSYC 246 and one of MATH 202, STAT 302, or (ii) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (i).

STAT_V 305-L2C STAT_V 306 L2C Introduction to Statistical Inference W2

Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. (3-0-0) Prerequisite: Either (i) one of STAT 200, STAT 203, MATH 200, STAT 202, STAT 211, COMM 290, ECON 225, FRST 211, PSYC 216, PSYC 246 and one of MATH 202, STAT 302, or (ii) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (i).

STAT_V 305-L2D STAT_V 306 L2D Introduction to Statistical Inference W2

Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. (3-0-0) Prerequisite: Either (i) one of STAT 200, STAT 203, MATH 200, STAT 202, STAT 211, COMM 290, ECON 225, FRST 211, PSYC 216, PSYC 246 and one of MATH 202, STAT 302, or (ii) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (i).

STAT_V 305-L2E STAT_V 306 L2E Introduction to Statistical Inference W2

Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. (3-0-0) Prerequisite: Either (i) one of STAT 200, STAT 203, MATH 200, STAT 202, STAT 211, COMM 290, ECON 225, FRST 211, PSYC 216, PSYC 246 and one of MATH 202, STAT 302, or (ii) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (i).

STAT_V 305-L2F STAT_V 306 L2F Introduction to Statistical Inference W2

Review of probability theory. Sampling distribution theory, large sample theory and methods of estimation and hypothesis testing, including maximum likelihood estimation, likelihood ratio testing and confidence interval construction. (3-0-0) Prerequisite: Either (i) one of STAT 200, STAT 203, MATH 200, STAT 202, STAT 211, COMM 290, ECON 225, FRST 211, PSYC 216, PSYC 246 and one of MATH 202, STAT 302, or (ii) a score of 65% or higher in one of MATH 302, STAT 302. The Department recommends that students meet the prerequisite through option (i).

STAT_V 306-101 STAT_V 306 101 Finding Relationships in Data W1

Modeling a response (output) variable as a function of several explanatory (input) variables: multiple regression for a continuous response, logistic regression for a binary response, and log-linear models for count data. Finding low-dimensional structure: principal components analysis. Cluster analysis. (Consult the Credit Exclusion List within the Faculty of Science section in the Calendar). [3-0-1]

STAT_V 306-201 STAT_V 306 201 Finding Relationships in Data W2

Modeling a response (output) variable as a function of several explanatory (input) variables: multiple regression for a continuous response, logistic regression for a binary response, and log-linear models for count data. Finding low-dimensional structure: principal components analysis. Cluster analysis. (Consult the Credit Exclusion List within the Faculty of Science section in the Calendar). [3-0-1]
Finding Relationships in Data

In Person Learning

STAT 344-L1B
3:00 p.m. - 4:00 p.m.
In Person Learning

Finding Relationships in Data

In Person Learning

STAT 344-L1C
3:00 p.m. - 4:00 p.m.
In Person Learning

Finding Relationships in Data

In Person Learning

STAT 344-L1D
3:00 p.m. - 4:00 p.m.
In Person Learning

Finding Relationships in Data

In Person Learning

STAT 306-L1B
12:00 p.m. - 1:00 p.m.
In Person Learning

Finding Relationships in Data

In Person Learning

STAT 306-L1C
12:00 p.m. - 1:00 p.m.
In Person Learning

Finding Relationships in Data

In Person Learning

STAT 306-L1D
12:00 p.m. - 1:00 p.m.
In Person Learning

Finding Relationships in Data

In Person Learning

STAT 306-L2A
12:00 p.m. - 1:00 p.m.
In Person Learning

Finding Relationships in Data

In Person Learning

STAT 306-L2B
12:00 p.m. - 1:00 p.m.
In Person Learning

Finding Relationships in Data

In Person Learning

STAT 306-L2C
12:00 p.m. - 1:00 p.m.
In Person Learning

Finding Relationships in Data

In Person Learning

STAT 306-L2D
12:00 p.m. - 1:00 p.m.
In Person Learning

Finding Relationships in Data

In Person Learning

STAT 344-101
9:00 a.m. - 10:00 a.m.
In Person Learning

Sample Surveys

In Person Learning

STAT 344-11A
9:00 a.m. - 10:00 a.m.
In Person Learning

Sample Surveys

In Person Learning

STAT 344-11B
9:00 a.m. - 10:00 a.m.
In Person Learning

Sample Surveys

In Person Learning

STAT 344-11C
9:00 a.m. - 10:00 a.m.
In Person Learning

Sample Surveys

In Person Learning

STAT 344-11D
9:00 a.m. - 10:00 a.m.
In Person Learning

Sample Surveys

In Person Learning
Planning and practice of sample surveys. Random sampling, bias and variance, unequal probability sampling, systematic, stratified and cluster sampling, ratio and regression estimators, post-stratification, establishing a home, protecting, pilot studies, nonresponse and additional topics. [3-0-1] Prerequisite: One of STAT 200, STAT 241, STAT 251, STAT 300, COMM 301, ECON 325, ECON 327, FRST 313, PCI 248, PSYC 278, PSYC 366. Corequisite: One of MATH 302, STAT 301.

Work experience in an industrial research setting. Normally taken during Winter Sessions of third year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading. Prerequisite: Registration in Statistics Honours or Major Program.

STAT 399-101 STAT_V 399 101 Design and Analysis of Experiments W1 Co-operative Work Placement II

Theory and application of analysis of variance for standard experimental designs, including blocked, nested, factorial and split-plot designs. Fixed and random effects, multiple comparisons, analysis of covariance. [Consult the Credit Exclusion list within the Faculty of Science section in the Calendar]. [3-0-1] Prerequisite: STAT306, one of MATH 152, MATH 221, or MATH 223.

Corequisite: ECON 264 or STAT 306.

STAT 406-110 STAT_V 406 110 Design and Analysis of Experiments W1 Flexible, data-adaptive methods for regression and classification models; regression smoothers; penalty methods; assessing accuracy of prediction; model selection; robustness; classification and regression trees; nearest-neighbour methods; model averaging and ensembles; computational time and visualization for large data sets. [3-0-1] Prerequisite: One of STAT 306, CSC 340.

In Person Learning Wed 11:00 a.m. - 12:30 p.m.

STAT 406-11A STAT_V 406 11A Methods for Statistical Learning W1 Flexible, data-adaptive methods for regression and classification models; regression smoothers; penalty methods; assessing accuracy of prediction; model selection; robustness; classification and regression trees; nearest-neighbour methods; model averaging and ensembles; computational time and visualization for large data sets. [3-0-1] Prerequisite: One of STAT 306, CSC 340.

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

STAT 406-11B STAT_V 406 11B Methods for Statistical Learning W1 Flexible, data-adaptive methods for regression and classification models; regression smoothers; penalty methods; assessing accuracy of prediction; model selection; robustness; classification and regression trees; nearest-neighbour methods; model averaging and ensembles; computational time and visualization for large data sets. [3-0-1] Prerequisite: One of STAT 306, CSC 340.

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

STAT 406-11C STAT_V 406 11C Methods for Statistical Learning W1 Flexible, data-adaptive methods for regression and classification models; regression smoothers; penalty methods; assessing accuracy of prediction; model selection; robustness; classification and regression trees; nearest-neighbour methods; model averaging and ensembles; computational time and visualization for large data sets. [3-0-1] Prerequisite: One of STAT 306, CSC 340.

In Person Learning Fri 10:00 a.m. - 11:30 a.m.

STAT 406-11D STAT_V 406 11D Methods for Statistical Learning W1 Flexible, data-adaptive methods for regression and classification models; regression smoothers; penalty methods; assessing accuracy of prediction; model selection; robustness; classification and regression trees; nearest-neighbour methods; model averaging and ensembles; computational time and visualization for large data sets. [3-0-1] Prerequisite: One of STAT 306, CSC 340.

In Person Learning Fri 1:00 p.m. - 4:00 p.m.

STAT 406-201 STAT_V 406 201 Time Series and Forecasting W2 Trend and seasonality, autocorrelation, stationarity; stochastic models, experimental smoothing; Holt-Winters methods; Box-Jenkins approach, frequency domain analysis. [3-0-1] Prerequisite: One of MATH 302, MATH 318, STAT 302 and one of STAT 200, STAT 241, STAT 251, STAT 260, STAT 300, COMM 291, ECON 325, ECON 327, FRST 213, PCI 248, PSYC 278, PSYC 366. Corequisite: STAT 305.

In Person Learning Tue 3:30 p.m. - 5:00 p.m.

STAT 406-202 STAT_V 406 202 Time Series and Forecasting W2 Trend and seasonality, autocorrelation, stationarity, stochastic models, experimental smoothing; Holt-Winters methods, Box-Jenkins approach, frequency domain analysis. [3-0-1] Prerequisite: One of MATH 302, MATH 318, STAT 302 and one of STAT 200, STAT 241, STAT 251, STAT 260, STAT 300, COMM 291, ECON 325, ECON 327, FRST 213, PCI 248, PSYC 278, PSYC 366. Corequisite: STAT 305.

In Person Learning Tue 12:00 p.m. - 2:00 p.m.
Arranged

**In Person Learning**

**Statistical Theory for the Design and Analysis of Clinical Studies**

W2

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

Arranged

449

201

447

In Person Learning

P

8:30 a.m. - 10:00 a.m.

**Time Series and Forecasting**

In Person Learning

B_101

W2

W2

In Person Learning

Arranged

In Person Learning

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

Arranged

536

W2

521

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

**Statistical Inference II**

Arranged

461

Arranged

201

In Person Learning

Arranged

In Person Learning

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

W1

Arranged

Arranged

499

W2

B_101

Special Topics in Statistics

W2

A research project, undertaken under the supervision of a faculty member, resulting in a written report. Prerequisite: Open to students enrolled in a Statistics Honours specialization and at class standing 4. Permission of the Undergraduate Advisor and supervising faculty member is required.

In Person Learning

Tue Thu

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

**Time Series and Forecasting**

In Person Learning

B_001

W2

201

W2

In Person Learning

L2D

L2C

E

W2

W1-2

Fri

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

**Co-operative Work Placement IV**

In Person Learning

L2E

Arranged

449

Arranged

E_201

In Person Learning

101

535

In Person Learning

Tue Thu

101

536

443

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

**Topics in Bayesian Analysis and Decision Theory**

W2

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

Arranged

F_201

Arranged

449

W1

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

**Co-operative Work Placement III**

Arranged

499

W2

W1

Mon Wed Fri

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

**Case Studies in Statistics**

W2

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

Arranged

101

535

In Person Learning

Thu Fri

9:30 a.m. - 10:30 a.m.

**Statistical Models and Their Properties**

W1

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 [STAT306, MATH320].

In Person Learning

Mon Wed

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

**Case Studies in Statistics**

W2

Readings and projects in areas of current statistical applications including environmental science, industrial statistics, official statistics, actuarial statistics, and medical statistics. [3-0-0] Prerequisite: [STAT306]

In Person Learning

Weed Fri

9:00 a.m. - 10:30 a.m.

**Co-operative Work Placement III**

W1

Work experience in an industrial research setting. Normally taken during Summer Session following fourth year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

Arranged

101

536

443

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

**Time Series and Forecasting**

In Person Learning

B_001

W2

201

W2

In Person Learning

L2D

L2C

E

W2

W1-2

Fri

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

**Co-operative Work Placement IV**

In Person Learning

L2E

Arranged

449

Arranged

E_201

In Person Learning

101

535

In Person Learning

Tue Thu

101

536

443

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

**Co-operative Work Placement III**

Arranged

499

W2

W1

Mon Wed Fri

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

**Case Studies in Statistics**

W2

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

Arranged

101

535

In Person Learning

Thu Fri

9:30 a.m. - 10:30 a.m.

**Statistical Models and Their Properties**

W1

Hypothesis testing and model selection in modern statistics, confidence regions, multiple testing, model comparison criteria. Intended for Honours students. [3-0-0] Prerequisite: [STAT306, MATH320].

In Person Learning

Mon Wed

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

**Case Studies in Statistics**

W2

Readings and projects in areas of current statistical applications including environmental science, industrial statistics, official statistics, actuarial statistics, and medical statistics. [3-0-0] Prerequisite: [STAT306]

In Person Learning

Weed Fri

9:00 a.m. - 10:30 a.m.

**Co-operative Work Placement III**

W1

Work experience in an industrial research setting. Normally taken during Summer Session following fourth year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

Arranged

101

536

443

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

**Topics in Bayesian Analysis and Decision Theory**

W2

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

Arranged

F_201

Arranged

449

W1

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

**Co-operative Work Placement III**

W1

Work experience in an industrial research setting. Normally taken during Summer Session following fourth year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

Arranged

101

536

443

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

**Case Studies in Statistics**

W2

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

Arranged

101

535

In Person Learning

Thu Fri

9:30 a.m. - 10:30 a.m.

**Statistical Models and Their Properties**

W1

Hypothesis testing and model selection in modern statistics, confidence regions, multiple testing, model comparison criteria. Intended for Honours students. [3-0-0] Prerequisite: [STAT306, MATH320].

In Person Learning

Mon Wed

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

**Case Studies in Statistics**

W2

Readings and projects in areas of current statistical applications including environmental science, industrial statistics, official statistics, actuarial statistics, and medical statistics. [3-0-0] Prerequisite: [STAT306]

In Person Learning

Weed Fri

9:00 a.m. - 10:30 a.m.

**Co-operative Work Placement III**

W1

Work experience in an industrial research setting. Normally taken during Summer Session following fourth year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

Arranged

101

536

443

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

**Topics in Bayesian Analysis and Decision Theory**

W2

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

Arranged

F_201

Arranged

449

W1

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

**Co-operative Work Placement III**

W1

Work experience in an industrial research setting. Normally taken during Summer Session following fourth year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

Arranged

101

536

443

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

**Case Studies in Statistics**

W2

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

Arranged

101

535

In Person Learning

Thu Fri

9:30 a.m. - 10:30 a.m.

**Statistical Models and Their Properties**

W1

Hypothesis testing and model selection in modern statistics, confidence regions, multiple testing, model comparison criteria. Intended for Honours students. [3-0-0] Prerequisite: [STAT306, MATH320].

In Person Learning

Mon Wed

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

**Case Studies in Statistics**

W2

Readings and projects in areas of current statistical applications including environmental science, industrial statistics, official statistics, actuarial statistics, and medical statistics. [3-0-0] Prerequisite: [STAT306]

In Person Learning

Weed Fri

9:00 a.m. - 10:30 a.m.

**Co-operative Work Placement III**

W1

Work experience in an industrial research setting. Normally taken during Summer Session following fourth year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

Arranged

101

536

443

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

**Topics in Bayesian Analysis and Decision Theory**

W2

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

Arranged

F_201

Arranged

449

W1

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

**Co-operative Work Placement III**

W1

Work experience in an industrial research setting. Normally taken during Summer Session following fourth year. Restricted to students admitted to the Co-operative Education Program in Statistics. This course is not eligible for Credit/D/Fail grading.

In Person Learning

Arranged

Arranged

101

536

443

11:00 a.m. - 12:00 p.m.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Schedule</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 540-A</td>
<td>IN Person Learning</td>
<td>3</td>
<td>Mon Wed</td>
<td>This course is not eligible for Credit/D/Fail grading. Equivalency: BIOF540, GSAT540</td>
</tr>
<tr>
<td>STAT 545-A</td>
<td>Exploratory Data Analysis</td>
<td>3</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>STAT 545-B</td>
<td>Exploratory Data Analysis</td>
<td>3</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>STAT 547-C</td>
<td>Topics in Statistics</td>
<td>3</td>
<td>W1</td>
<td>Students should consult the Statistics Department for the particular advanced topics offered in a given year. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>STAT 547-K</td>
<td>Topics in Statistics</td>
<td>3</td>
<td>W1</td>
<td>Students should consult the Statistics Department for the particular advanced topics offered in a given year. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>STAT 547-M</td>
<td>Topics in Statistics</td>
<td>3</td>
<td>W1</td>
<td>Students should consult the Statistics Department for the particular advanced topics offered in a given year. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>STAT 547-N</td>
<td>Topics in Statistics</td>
<td>3</td>
<td>W1</td>
<td>Students should consult the Statistics Department for the particular advanced topics offered in a given year. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>STAT 547-T</td>
<td>Topics in Statistics</td>
<td>3</td>
<td>W2</td>
<td>Students should consult the Statistics Department for the particular advanced topics offered in a given year. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>STAT 547-U</td>
<td>Topics in Deep Learning Theory</td>
<td>3</td>
<td>W2</td>
<td>Students should consult the Statistics Department for the particular advanced topics offered in a given year. This course is not eligible for Credit/D/Fail grading.</td>
</tr>
<tr>
<td>STAT 548-A</td>
<td>Directed Studies in Statistics</td>
<td>3</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>
</tr>
<tr>
<td>STAT 548-B</td>
<td>Directed Studies in Statistics</td>
<td>3</td>
<td>W2</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>STAT 549-A</td>
<td>Thesis for Master's Degree</td>
<td>3</td>
<td>W1-2</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>STAT 549-A</td>
<td>Thesis for Master's Degree</td>
<td>3</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>
</tr>
<tr>
<td>STAT 549-A</td>
<td>Thesis for Master's Degree</td>
<td>3</td>
<td>W2</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>STAT 550</td>
<td>Techniques of Statistical Consulting</td>
<td>3</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Wed Fri 2:30 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>STAT 551</td>
<td>Statistical Consulting Practicum</td>
<td>3</td>
<td>W1</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed 2:30 p.m. - 4:00 p.m.</td>
</tr>
<tr>
<td>STAT 560</td>
<td>Statistical Theory I</td>
<td>3</td>
<td>W1</td>
<td>Credit will not be given for both STAT 460 and STAT 560. This course is not eligible for Credit/D/Fail grading. (3-0-0)</td>
</tr>
<tr>
<td>STAT 561</td>
<td>Statistical Theory II</td>
<td>3</td>
<td>W2</td>
<td>This course is not eligible for Credit/D/Fail grading. In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.</td>
</tr>
<tr>
<td>STAT 598-A</td>
<td>Co-operative Work Placement I</td>
<td>3</td>
<td>W1</td>
<td>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>
</tr>
<tr>
<td>STAT 598-B</td>
<td>Co-operative Work Placement II</td>
<td>3</td>
<td>W1</td>
<td>Restricted to students admitted to the Co-operative M.Sc. Education Program in Statistics. This course is not eligible for Credit/D/Fail grading. Prerequisite: STAT 598. In Person Learning Arranged</td>
</tr>
<tr>
<td>STAT 599-A</td>
<td>Co-operative Work Placement III</td>
<td>3</td>
<td>W2</td>
<td>Restricted to students admitted to the Co-operative M.Sc. Education Program in Statistics. This course is not eligible for Credit/D/Fail grading. Prerequisite: STAT 598. In Person Learning Arranged</td>
</tr>
<tr>
<td>STAT 599-B</td>
<td>Co-operative Work Placement III</td>
<td>3</td>
<td>W2</td>
<td>Restricted to students admitted to the Co-operative M.Sc. Education Program in Statistics. This course is not eligible for Credit/D/Fail grading. Prerequisite: STAT 598. In Person Learning Arranged</td>
</tr>
<tr>
<td>STAT 599-C</td>
<td>Co-operative Work Placement III</td>
<td>3</td>
<td>W2</td>
<td>Restricted to students admitted to the Co-operative M.Sc. Education Program in Statistics. This course is not eligible for Credit/D/Fail grading. Prerequisite: STAT 598. In Person Learning Arranged</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>Level</td>
<td>Type</td>
<td>Time</td>
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</tr>
<tr>
<td>STAT V 649-A_001</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>STAT V 649-A_011</td>
<td>Doctoral Dissertation</td>
<td>W1</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>STAT V 649-B_001</td>
<td>Doctoral Dissertation</td>
<td>W2</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>SURG V 500-201</td>
<td>Surgical Care in International Health</td>
<td>W1</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>SURG V 510-A_99A</td>
<td>Experimental Surgery</td>
<td>W1</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>SURG V 510-B_99A</td>
<td>Surgical Care in International Health</td>
<td>W1</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>SURG V 512-A_99A</td>
<td>Global Disability: A Surgical Care Mandate</td>
<td>W1</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>SURG V 512-B_99A</td>
<td>Global Disability: A Surgical Care Mandate</td>
<td>W1</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>SURG V 514-A_99C</td>
<td>Surgical Care in Humanitarian Disaster Response</td>
<td>W2</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>SURG V 514-B_99C</td>
<td>Surgical Care in Humanitarian Disaster Response</td>
<td>W2</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>SURG V 516-A_99C</td>
<td>Program Planning and Evaluation in Surgical Care Low Resource Settings</td>
<td>W2</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>SURG V 516-B_99C</td>
<td>Program Planning and Evaluation in Surgical Care Low Resource Settings</td>
<td>W2</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>SURG V 517-A_999</td>
<td>Clinical Research Methods for Surgical Procedures with Global Surgical Comparisons</td>
<td>W1</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>SURG V 517-B_999</td>
<td>Clinical Research Methods for Surgical Procedures with Global Surgical Comparisons</td>
<td>W1</td>
<td>In Person Learning</td>
<td>2:00 p.m. - 4:30 p.m.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Title</td>
<td>Availability</td>
<td>Times</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
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</tr>
<tr>
<td>SURG_V</td>
<td>Surgical Care in Canada's Rural and Remote Indigenous Communities with Global Comparisons</td>
<td>Online Learning</td>
<td>Arranged</td>
<td>Critique the current and historical provision of surgical care services to indigenous communities in Canada and globally. Examine challenges and opportunities confronting both the clinician and the service delivery system, in order to implement lessons learned from these communities. This course is not eligible for Credit/D/Fail grading. Prerequisite: SURG 510.</td>
</tr>
<tr>
<td>SURG_V</td>
<td>Surgical Care in Canada's Rural and Remote Indigenous Communities with Global Comparisons</td>
<td>Online Learning</td>
<td>Arranged</td>
<td>Critique the current and historical provision of surgical care services to indigenous communities in Canada and globally. Examine challenges and opportunities confronting both the clinician and the service delivery system, in order to implement lessons learned from these communities. This course is not eligible for Credit/D/Fail grading. Prerequisite: SURG 510.</td>
</tr>
<tr>
<td>SURG_V</td>
<td>Directed Study in Global Surgical Care</td>
<td>Online Learning</td>
<td>Arranged</td>
<td>Literature review of a global surgical care topic chosen in consultation with an advisor. Includes analysis of existing literature and research, and identification of gaps in current knowledge. This course is not eligible for Credit/D/Fail grading. Prerequisite: Four of SURG 510, SURG 512, SURG 514. Corequisite: SURG 517.</td>
</tr>
<tr>
<td>SURG_V</td>
<td>Directed Study in Global Surgical Care</td>
<td>Online Learning</td>
<td>Arranged</td>
<td>Literature review of a global surgical care topic chosen in consultation with an advisor. Includes analysis of existing literature and research, and identification of gaps in current knowledge. This course is not eligible for Credit/D/Fail grading. Prerequisite: Four of SURG 510, SURG 512, SURG 514. Corequisite: SURG 517.</td>
</tr>
<tr>
<td>SURG_V</td>
<td>M.Sc. Thesis</td>
<td>In Person Learning</td>
<td>Arranged</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>SWED_V</td>
<td>Intermediate Swedish I</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Students with native or near-native proficiency in a Scandinavian language (e.g. Danish, Norwegian, Swedish) cannot participate in the elementary Swedish courses (SWED 100 and SWED 110), but are welcome to join the intermediate courses (SWED 200 and SWED 210). Students with native or near-native proficiency in a Scandinavian language (e.g. Danish, Norwegian, Swedish) cannot participate in the elementary Swedish courses (SWED 100 and SWED 110), but are welcome to join the intermediate courses (SWED 200 and SWED 210). In Person Learning</td>
</tr>
<tr>
<td>SWED_V</td>
<td>Intermediate Swedish II</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Skills in using Swedish in a range of social contexts. Training in grammar and vocabulary that builds fluency, and in using the language appropriately for meaningful interactions with native speakers. Prerequisite: SWED 100, or equivalent.</td>
</tr>
<tr>
<td>SWED_V</td>
<td>Elementary Swedish I</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Students with native or near-native proficiency in a Scandinavian language (e.g. Danish, Norwegian, Swedish) cannot participate in the elementary Swedish courses (SWED 100 and SWED 110), but are welcome to join the intermediate courses (SWED 200 and SWED 210). Students with native or near-native proficiency in a Scandinavian language (e.g. Danish, Norwegian, Swedish) cannot participate in the elementary Swedish courses (SWED 100 and SWED 110), but are welcome to join the intermediate courses (SWED 200 and SWED 210). In Person Learning</td>
</tr>
<tr>
<td>SWED_V</td>
<td>Elementary Swedish II</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Students with native or near-native proficiency in a Scandinavian language (e.g. Danish, Norwegian, Swedish) cannot participate in the elementary Swedish courses (SWED 100 and SWED 110), but are welcome to join the intermediate courses (SWED 200 and SWED 210). Students with native or near-native proficiency in a Scandinavian language (e.g. Danish, Norwegian, Swedish) cannot participate in the elementary Swedish courses (SWED 100 and SWED 110), but are welcome to join the intermediate courses (SWED 200 and SWED 210). In Person Learning</td>
</tr>
<tr>
<td>SWED_V</td>
<td>Intermediation Swedish I</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Fundamental elements of the art of storytelling as approached within each of the core areas taught in the Department of Theatre and Film: Acting/Directing, Design and Production, and Film Production. Restricted to students in one of the following BFA programs: Major in Acting, Major in Film Production; Major in Theatre Design and Production.</td>
</tr>
<tr>
<td>SWED_V</td>
<td>Intermediation Swedish II</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>Fundamental elements of the art of storytelling as approached within each of the core areas taught in the Department of Theatre and Film: Acting/Directing, Design and Production, and Film Production. Restricted to students in one of the following BFA programs: Major in Acting, Major in Film Production; Major in Theatre Design and Production.</td>
</tr>
<tr>
<td>SWED_V</td>
<td>The Art of Storytelling for Stage and Screen</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>The credit value for this course will be determined in consultation with the student prior to the registration.</td>
</tr>
<tr>
<td>SWED_V</td>
<td>The Art of Storytelling for Stage and Screen</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>The credit value for this course will be determined in consultation with the student prior to the registration.</td>
</tr>
<tr>
<td>THTR_V</td>
<td>The Art of Storytelling for Stage and Screen</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>The credit value for this course will be determined in consultation with the student prior to the registration.</td>
</tr>
<tr>
<td>THTR_V</td>
<td>The Art of Storytelling for Stage and Screen</td>
<td>In Person Learning</td>
<td>Arranged</td>
<td>The credit value for this course will be determined in consultation with the student prior to the registration.</td>
</tr>
<tr>
<td>THTR_V</td>
<td>The Art of Storytelling for Stage and Screen</td>
<td>In Person Learning</td>
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<td>THTR_V</td>
<td>The Art of Storytelling for Stage and Screen</td>
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<td>THTR 210-013</td>
<td>Beginning Voice and Movement I</td>
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<td>The Anatomy of Drama: Its history, aesthetic principles, performance potential.</td>
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<td>THTR 211-001</td>
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<td>Topics in comparative drama; drama and the other performing arts; dramaturgy.</td>
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<td>THTR 245-001</td>
<td>Ray-Interpretation and Production-Analysis</td>
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<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>
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<tr>
<td>THTR 250-001</td>
<td>Technical Production</td>
<td>W1</td>
<td>The construction and execution of scenery, costumes, properties, lighting, and sound for the stage. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 254</td>
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<tr>
<td>THTR 250-002</td>
<td>Technical Production</td>
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<td>The construction and execution of scenery, costumes, properties, lighting, and sound for the stage. Credit will be granted for only one of THTR 299 or THTR 251. Equivalency: THTR 254</td>
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<td>THTR 271-001</td>
<td>Beginning B.F.A. Acting I</td>
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<td>Open only to B.F.A. Acting students. An audition is required. Prerequisite: At least one theatre course.</td>
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<td>THTR 272-001</td>
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<td>THTR 359-F_001</td>
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<td>THTR 359-G_001</td>
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<td>THTR 359-H_001</td>
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<td>THTR 359-N_001</td>
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<td>In Person Learning</td>
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<td>THTR 359-O_001</td>
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<td>THTR 359-S_001</td>
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<td>THTR 359-T_001</td>
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<td>3</td>
<td>In Person Learning</td>
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</table>

**Prerequisites and Notes:**
- Open only to B.F.A. Acting students.
- Corequisite: All of THTR 371, THTR 373, THTR 374.

THTR_V 405-001  THTR_V 405 001  Scenery Design II  W1  Exploration of complex scenery design and development of design portfolio. Prerequisite: THTR 305.

THTR_V 405-002  THTR_V 405 002  Scenery Design II  W1  Exploration of complex scenery design and development of design portfolio. Prerequisite: THTR 305.

THTR_V 406-001  THTR_V 406 001  Costume Design II  W2  Complex problems and selected historical studies in costume design. Prerequisite: THTR 352.

THTR_V 407-001  THTR_V 407 001  Lighting Design II  W2  Complex design and advanced technologies in stage lighting and scenography. Prerequisite: THTR 307.

THTR_V 410-001  THTR_V 410 001  Dramaturgy  W2  Advanced problems in dramaturgy, both in a historical and a contemporary context.

THTR_V 417-001  THTR_V 417 001  Directing Lab  W1  Prerequisite: THTR 317. Permission of the instructor is required for admission to this course.

THTR_V 440-B_001  THTR_V 440 B 001  Topics in Theatre  W1  An examination in depth of a selected area of theatre history, theory or practice. Topics will change from year to year. May be repeated for credit when topics differ. Prerequisite: 6 credits of THTR at the 300-level or above.

THTR_V 440-C_001  THTR_V 440 C 001  Topics in Theatre  W2  An examination in depth of a selected area of theatre history, theory or practice. Topics will change from year to year. May be repeated for credit when topics differ. Prerequisite: 6 credits of THTR at the 300-level or above.

THTR_V 440-D_001  THTR_V 440 D 001  Topics in Theatre  W2  An examination in depth of a selected area of theatre history, theory or practice. Topics will change from year to year. May be repeated for credit when topics differ. Prerequisite: 6 credits of THTR at the 300-level or above.

THTR_V 443-A_001  THTR_V 443 A 001  Women in Theatre and Film  W2  A course dealing with women's involvement in and contribution to various aspects of Theatre and/or Film. Topics will change from year to year. Credit will be granted for only one of THTR 443 or THTR 415. Equivalency: THTR 415.

THTR_V 445-001  THTR_V 445 001  Majors and Honours Seminar  W2

THTR_V 448-A_001  THTR_V 448 A 001  Directed Studies in Theatre Theory and Practice  W1

THTR_V 448-A_002  THTR_V 448 A 002  Directed Studies in Theatre Theory and Practice  W1

THTR_V 448-A_003  THTR_V 448 A 003  Directed Studies in Theatre Theory and Practice  W1

THTR_V 448-A_004  THTR_V 448 A 004  Directed Studies in Theatre Theory and Practice  W1

THTR_V 448-A_005  THTR_V 448 A 005  Directed Studies in Theatre Theory and Practice  W1

THTR_V 448-A_006  THTR_V 448 A 006  Directed Studies in Theatre Theory and Practice  W1

THTR_V 448-B_001  THTR_V 448 B 001  Directed Studies in Theatre Theory and Practice  W2

THTR_V 448-B_002  THTR_V 448 B 002  Directed Studies in Theatre Theory and Practice  W2

THTR_V 448-B_003  THTR_V 448 B 003  Directed Studies in Theatre Theory and Practice  W2

THTR_V 448-B_004  THTR_V 448 B 004  Directed Studies in Theatre Theory and Practice  W2

THTR_V 448-B_005  THTR_V 448 B 005  Directed Studies in Theatre Theory and Practice  W2
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<th>Code</th>
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<td>Directed Studies in Theatre Theory and Practice</td>
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<td>THTR_V 448-B_007</td>
<td>Directed Studies in Theatre Theory and Practice</td>
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<td>Directed Studies in Theatre Theory and Practice</td>
<td>W1-2</td>
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<td>THTR_V 448-C_002</td>
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<td>Directed Studies in Theatre Theory and Practice</td>
<td>W1-2</td>
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<td>THTR_V 448-C_004</td>
<td>Directed Studies in Theatre Theory and Practice</td>
<td>W1-2</td>
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<td>THTR_V 448-C_005</td>
<td>Directed Studies in Theatre Theory and Practice</td>
<td>W1-2</td>
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<td>Directed Studies in Theatre Theory and Practice</td>
<td>W1-2</td>
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<td>THTR_V 448-C_007</td>
<td>Directed Studies in Theatre Theory and Practice</td>
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<td>THTR_V 449-001</td>
<td>Supervised Study and Honours Essay</td>
<td>W1-2</td>
<td>001</td>
<td>Technical direction; complex techniques and problems in scenery production. Prerequisite: THTR 450.</td>
<td>In Person Learning</td>
<td>Tue Thu 9:30 a.m. - 12:30 p.m.</td>
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<tr>
<td>THTR_V 450-001</td>
<td>Scenery Production II</td>
<td>W2</td>
<td>050</td>
<td>Study of selected scene painting styles. Prerequisite: THTR 352.</td>
<td>In Person Learning</td>
<td>Mon Tue 6:00 p.m. - 9:00 p.m.</td>
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<tr>
<td>THTR_V 452-001</td>
<td>Scene Painting II</td>
<td>W2</td>
<td>452</td>
<td>Pattern development and cutting for costumes for stage and screen using flat pattern and draping. Prerequisite: THTR 358.</td>
<td>In Person Learning</td>
<td>Thu 1:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>THTR_V 456-001</td>
<td>Costume Construction II</td>
<td>W1</td>
<td>456</td>
<td>Open only to B.F.A. Acting students. Corequisite: All of THTR 371, THTR 372, THTR 373, THTR 374, THTR 399.</td>
<td>In Person Learning</td>
<td>Mon Wed 12:30 p.m. - 4:30 p.m.</td>
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<tr>
<td>THTR_V 471-001</td>
<td>Advanced B.F.A. Acting I</td>
<td>W1</td>
<td>471</td>
<td>Open only to B.F.A. Acting students. Corequisite: All of THTR 371, THTR 372, THTR 373, THTR 374, THTR 399.</td>
<td>In Person Learning</td>
<td>Mon Wed 12:30 p.m. - 4:30 p.m.</td>
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<tr>
<td>THTR_V 472-001</td>
<td>Advanced B.F.A. Acting II</td>
<td>W2</td>
<td>472</td>
<td>Open only to B.F.A. Acting students. Corequisite: All of THTR 371, THTR 372, THTR 373, THTR 374, THTR 399.</td>
<td>In Person Learning</td>
<td>Mon Wed 12:30 p.m. - 4:30 p.m.</td>
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<tr>
<td>THTR_V 473-001</td>
<td>Advanced Speech and Movement I</td>
<td>W1</td>
<td>473</td>
<td>Open only to B.F.A. Acting students. Corequisite: All of THTR 371, THTR 372, THTR 373, THTR 374, THTR 399.</td>
<td>In Person Learning</td>
<td>Tue Thu 1:00 p.m. - 4:30 p.m.</td>
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<tr>
<td>THTR_V 474-001</td>
<td>Advanced Speech and Movement II</td>
<td>W2</td>
<td>474</td>
<td>Open only to B.F.A. Acting students. Corequisite: All of THTR 371, THTR 372, THTR 373, THTR 374, THTR 399.</td>
<td>In Person Learning</td>
<td>Tue Thu 1:00 p.m. - 4:30 p.m.</td>
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<tr>
<td>THTR_V 499-A_001</td>
<td>Production III</td>
<td>W1</td>
<td>499</td>
<td>Assignments for the course. Prerequisite: THTR 399.</td>
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<tr>
<td>THTR_V 499-B_001</td>
<td>Production III</td>
<td>W2</td>
<td>499</td>
<td>Assignments for the course. Prerequisite: THTR 399.</td>
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</table>
THTR V 459-C_001  THTR V 499 C C_001 Production III  WI-2 Assigned projects in Theatre or Film design and production. Prerequisite: THTR 389. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470. In Person Learning Arranged Arranged


THTR V 459-L_001  THTR V 499 L L_001 Production III  WI-2 Assigned projects in Theatre or Film design and production. Prerequisite: THTR 389. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470. In Person Learning Arranged Arranged

THTR V 459-M_001  THTR V 499 M M_001 Production III  WI-2 Assigned projects in Theatre or Film design and production. Prerequisite: THTR 389. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470. In Person Learning Arranged Arranged

THTR V 459-P_001  THTR V 499 P P_001 Production III  WI-2 Assigned projects in Theatre or Film design and production. Prerequisite: THTR 389. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470. In Person Learning Arranged Arranged

THTR V 459-R_001  THTR V 499 R R_001 Production III  WI-2 Assigned projects in Theatre or Film design and production. Prerequisite: THTR 389. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470. In Person Learning Arranged Arranged

THTR V 459-S_001  THTR V 499 S S_001 Production III  WI-2 Assigned projects in Theatre or Film design and production. Prerequisite: THTR 389. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470. In Person Learning Wed(A alternate weeks) 1:00 p.m. - 2:00 p.m.

THTR V 459-T_001  THTR V 499 T T_001 Production III  WI-2 Assigned projects in Theatre or Film design and production. Prerequisite: THTR 389. Corequisite: One of THTR 405, THTR 406, THTR 407, THTR 408, THTR 450, THTR 452, THTR 454, THTR 456, THTR 470. In Person Learning Wed(A alternate weeks) 1:00 p.m. - 2:00 p.m.

THTR V 505-S_001  THTR V 505 S_001 Scenery Design Studio I W1 Complex scenery design for theatre and other performance forms. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

THTR V 505-S_002  THTR V 505 S_002 Scenery Design Studio I W1 Complex scenery design for theatre and other performance forms. This course is not eligible for Credit/D/Fail grading. In Person Learning Mon 9:00 a.m. - 12:00 p.m.

THTR V 507-S_001  THTR V 507 S_001 Scenery Design Studio II W1 Complex scenery design for opera, dance, theatre, and other performance forms. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

THTR V 507-S_002  THTR V 507 S_002 Scenery Design Studio II W2 Complex scenery design for opera, dance, theatre, and other performance forms. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

THTR V 520-001  THTR V 520-001 Direction and Production W1-2 This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

THTR V 521-001  THTR V 521-001 Style in Directing W1-2 An advanced course in directing; detailed study of the major styles in the history of production. This course is not eligible for Credit/D/Fail grading. Prerequisite: [THTR320] In Person Learning Arranged Arranged

THTR V 530-B_001  THTR V 530 B B_001 Seminar: Relationships Between Theatre and the Other Arts W1 Studies in a selected area of theatre in relation to one or more of the other arts. This course is not eligible for Credit/D/Fail grading. In Person Learning Fri 10:00 a.m. - 1:00 p.m.

THTR V 547-A_001  THTR V 547 A A_001 Directed Studies in Theatre and Drama and Film/Television W1 This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

THTR V 547-B_001  THTR V 547 B B_001 Directed Studies in Theatre and Drama and Film/Television W2 This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

THTR V 547-C_001  THTR V 547 C C_001 Directed Studies in Theatre and Drama and Film/Television W1-2 This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged

THTR V 549-A_002  THTR V 549 A A_002 Master's Thesis W1 This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration In Person Learning Arranged Arranged

THTR V 549-B_001  THTR V 549 B B_001 Master's Thesis W1-2 This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration In Person Learning Arranged Arranged

THTR V 549-C_002  THTR V 549 C C_002 Master's Thesis W1 This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration In Person Learning Arranged Arranged

THTR V 549-C_003  THTR V 549 C C_003 Master's Thesis W1-2 This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration In Person Learning Arranged Arranged
This course is not eligible for Credit/D/Fail grading. The credit value for this course will be determined in consultation with the student prior to the registration.

In Person Learning

THTR_V 549-DNU_B_001
Master's Thesis

THTR_V 555-001
Structural Design for the Stage I

THTR_V 561-A_001
Studies in Dramatic Literature

THTR_V 562-A_001
Studies in Dramatic Theory and Criticism

THTR_V 649-001
Doctoral Dissertation

THTR_V 649-002
Doctoral Dissertation

THTR_V 649-003
Doctoral Dissertation

TIBT_V 100-011
Introduction to Tibetan I

TIBT_V 100-012
Introduction to Tibetan I

TIBT_V 101-021
Introduction to Tibetan II

TIBT_V 300-011
Classical Tibetan I

TIBT_V 301-021
Classical Tibetan II

TRSC_V 001-001
Transition School - First Year

TRSC_V 002-001
Transition School - Second Year

UDES_V 502-001
Urban Design Studio II

UDES_V 502-101
Urban Design Studio II

UDES_V 503-001
Urban Design Studio III

UDES_V 504-002
History and Theory of Urban Design

UDES_V 504-701
History and Theory of Urban Design

UDES_V 505-101
Urban Design as Public Policy: Policymaking for a Sustainable Region

UDES_V 506-001
Real Estate Economics: Development Feasibility and Financing

UFOR_V 300-101
Grooming the City
<table>
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<th>Course Code</th>
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<th>Title</th>
<th>Instructor</th>
<th>Notes</th>
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<tr>
<td>UFOR_V 110-1</td>
<td>101</td>
<td>Introduction to Urban Forest Design</td>
<td>W2</td>
<td>Basic concepts of landscape design as it relates to urban forestry. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.</td>
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<tr>
<td>UFOR_V 300-1</td>
<td>101</td>
<td>Urban Forestry and Well-Being</td>
<td>W1</td>
<td>Basic relationship between urban residents' mental and physical well-being and their urban forest environment. Pre-requisite: UFOR 200.</td>
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<tr>
<td>UFOR_V 220-1</td>
<td>101</td>
<td>Urban Forest Inventory and Assessment</td>
<td>W1</td>
<td>Overview of urban forest resources: structure and composition, extent, and ecosystem services and benefits associated, introduces methods and tools for urban forest inventory, monitoring, and assessment, and how they are integrated into land planning and management of urban forests. Course is not eligible for Credit/D/Fail grading. In Person Learning Fri 8:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>UFOR_V 220-2</td>
<td>101</td>
<td>Urban Forest Inventory and Assessment</td>
<td>W2</td>
<td>Overview of urban forest resources: structure and composition, extent, and ecosystem services and benefits associated, introduces methods and tools for urban forest inventory, monitoring, and assessment, and how they are integrated into land planning and management of urban forests. This course is not eligible for Credit/D/Fail grading. In Person Learning Fri 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>UFOR_V 230-1</td>
<td>201</td>
<td>Introductory Statistical Methods for Urban Forestry</td>
<td>W2</td>
<td>Basic theories and practice of statistical methods in urban forest inventory context. Intended only for students in the Bachelor of Urban Forestry program. Students in the Bachelor of Science, Natural Resources should take NRES 231. In Person Learning Fri 9:30 a.m. - 11:30 a.m.</td>
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<tr>
<td>UFOR_V 300-1</td>
<td>101</td>
<td>Arboriculture Principles and Practice</td>
<td>W1</td>
<td>Principles and practice of individual urban tree management with emphasis on underlying biological and ecological concepts, plant-environment interactions, and below-ground and above-ground implications for establishment, evaluation, and conservation of individual trees in a variety of urban situations. [3-0-1] Prerequisite: Pre-requisite: UFOR 220 and Third-year standing. In Person Learning Tue 9:00 a.m. - 12:00 p.m.</td>
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<tr>
<td>UFOR_V 310-1</td>
<td>101</td>
<td>Principles and practice of individual urban tree management with emphasis on underlying biological and ecological concepts, plant-environment interactions, and below-ground and above-ground implications for establishment, evaluation, and conservation of individual trees in a variety of urban situations. [3-1-0] Prerequisite: Pre-requisite: UFOR 220 and Third-year standing. In Person Learning Thu 2:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>UFOR_V 310-1</td>
<td>101</td>
<td>Trees and Shrubs in Landscape</td>
<td>W1</td>
<td>Identification and suitability of woody plants used in the urban environment, with a focus on biological characteristics for plant identification, criteria for species selection, and other considerations for urban woody plant cultivation. Prerequisite: One of FRST 203, NRES 203. Compulsory: All of UFOR 220, UFOR 230. In Person Learning Thu 9:30 a.m. - 11:30 a.m.</td>
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<tr>
<td>UFOR_V 330-1</td>
<td>101</td>
<td>Environmental Justice and Urban Green Equity</td>
<td>W2</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. [3-0-1] Prerequisite: Third-year standing. In Person Learning Tue Thu 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>UFOR_V 401-1</td>
<td>101</td>
<td>Urban Forestry Field School</td>
<td>W2</td>
<td>Urban forest resources: structure and composition, extent, and ecosystem services and benefits associated, introduces methods and tools for urban forest inventory, monitoring, and assessment, and how they are integrated into land planning and management of urban forests. This course is not eligible for Credit/D/Fail grading. In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>UFOR_V 401-1</td>
<td>101</td>
<td>Integrated Urban Forestry Capstone Studio</td>
<td>W1-2</td>
<td>Integration of biophysical and socio-economic components of urban greenspace management and planning through 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>
</tr>
<tr>
<td>UFOR_V 401-1</td>
<td>101</td>
<td>Integrated Urban Forestry Capstone Studio</td>
<td>W1-2</td>
<td>Integration of biophysical and socio-economic components of urban greenspace management and planning through 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 402-1</td>
<td>101</td>
<td>Urban Forestry Administration, Policy and Law</td>
<td>W2</td>
<td>The administrative, legal, policy, and business environments for urban forestry governance, management, and planning. [3-1-0] Prerequisite: UFOR 316. And third-year standing. In Person Learning Mon Wed 12:00 p.m. - 2:00 p.m.</td>
</tr>
<tr>
<td>UFOR_V 403-1</td>
<td>101</td>
<td>Ecological Restoration</td>
<td>W2</td>
<td>Perspectives and practices of ecological restoration in diverse ecosystems worldwide. This course is not eligible for Credit/D/Fail grading. Prerequisite: One of FRST 203, NRES 203. And third-year standing. Equivalency: FRST 303. In Person Learning Tue Thu 10:00 a.m. - 12:00 p.m.</td>
</tr>
<tr>
<td>UFOR_V 415-1</td>
<td>101</td>
<td>Plant Design</td>
<td>W1</td>
<td>An introduction to the design of enhanced environments through the use of plants. In Person Learning Wed 9:00 a.m. - 6:30 p.m.</td>
</tr>
<tr>
<td>UFOR_V 420-1</td>
<td>101</td>
<td>Ecology of Urban Green Infrastructure</td>
<td>W1</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 only if one of UFOR 420 or UFOR 520. [3-0-1] Prerequisite: Fourth-year standing. Equivalency: UFOR 520. In Person Learning Arranged Arranged</td>
</tr>
<tr>
<td>UFOR_V 420-2</td>
<td>201</td>
<td>Ecology of Urban Green Infrastructure</td>
<td>W1</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 only if one of UFOR 420 or UFOR 520. [3-0-1] Prerequisite: Fourth-year standing. Equivalency: UFOR 520. In Person Learning Fri 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>UFOR_V 444-1</td>
<td>101</td>
<td>Green Network Planning</td>
<td>W1</td>
<td>Theory and methods of long-range green space planning for urban areas. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>UFOR_V 444-2</td>
<td>101</td>
<td>Green Network Planning</td>
<td>W1</td>
<td>Theory and methods of long-range green space planning for urban areas. In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Schedule</td>
<td>Location</td>
<td>RegistrationRemarks</td>
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<tr>
<td>UFOR_V 444-103</td>
<td>Green Network Planning</td>
<td>Wed 2:00 p.m. - 3:00 p.m.</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>UFOR_V 449-C-001</td>
<td>Directed Studies in Urban Forestry</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Fri 4:00 p.m. - 5:10 p.m.</td>
</tr>
<tr>
<td>UFOR_V 449-C-010</td>
<td>Directed Studies in Urban Forestry</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>UFOR_V 449-C-011</td>
<td>Directed Studies in Urban Forestry</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>UFOR_V 449-C-200</td>
<td>Directed Studies in Urban Forestry</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Arranged</td>
</tr>
<tr>
<td>UFOR_V 445-101</td>
<td>Biodiversity in Urban Areas</td>
<td>W1 12:30 p.m. - 2:00 p.m.</td>
<td>In Person Learning</td>
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</tr>
<tr>
<td>UFOR_V 450-201</td>
<td>Ecology of Urban-Green Infrastructure</td>
<td>W1 1:00 p.m. - 2:30 p.m.</td>
<td>Online Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>UFOR_V 520-101</td>
<td>Ecology of Urban-Green Infrastructure</td>
<td>W2 10:00 a.m. - 11:30 a.m.</td>
<td>Online Learning</td>
<td></td>
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<tr>
<td>UFOR_V 521-101</td>
<td>Advancement in Archeology and Urban Ecology</td>
<td>W1 11:00 a.m. - 12:30 p.m.</td>
<td>Online Learning</td>
<td></td>
</tr>
<tr>
<td>UFOR_V 522-101</td>
<td>Urban Forest Resources and Benefits Assessment</td>
<td>W2 1:00 p.m. - 2:30 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>UFOR_V 523-101</td>
<td>Strategic Urban-Forest Planning and Management</td>
<td>W2 1:00 p.m. - 2:30 p.m.</td>
<td>Online Learning</td>
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<tr>
<td>UFOR_V 531-001</td>
<td>Master of Urban Forestry Leadership Capstone Course</td>
<td>W1-2 10:30 a.m. - 12:30 p.m.</td>
<td>Online Learning</td>
<td>Arranged</td>
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<tr>
<td>UKRN_V 125-101</td>
<td>Basic Ukrainian</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>UKRN_V 225-101</td>
<td>Advanced Ukrainian</td>
<td>W1-2</td>
<td>In Person Learning</td>
<td>Tue Thu</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Schedule</td>
<td>Mode</td>
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<tr>
<td>URST 200-11D</td>
<td>Cities</td>
<td>200</td>
<td>L1D</td>
<td>Cities</td>
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<td></td>
<td>An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of URST 200 or GEOG 250. Equivalency: GEOG 250. In Person Learning Wed 4:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>URST 200-11E</td>
<td>Cities</td>
<td>200</td>
<td>L1E</td>
<td>Cities</td>
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<td></td>
<td>An interdisciplinary introduction to the city in the context of contemporary globalization. Analysis of urban patterns and processes from the theoretical perspectives of various disciplines and methodologies. Credit will be granted for only one of URST 200 or GEOG 250. Equivalency: GEOG 250. In Person Learning Fri 11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>URST 200-12A</td>
<td>Cities</td>
<td>200</td>
<td>L2A</td>
<td>Cities</td>
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<td>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</td>
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<tr>
<td>URST 200-12B</td>
<td>Cities</td>
<td>200</td>
<td>L2B</td>
<td>Cities</td>
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<td></td>
<td>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</td>
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<tr>
<td>URST 200-12C</td>
<td>Cities</td>
<td>200</td>
<td>L2C</td>
<td>Cities</td>
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<td></td>
<td>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</td>
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<tr>
<td>URST 200-12D</td>
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<td>200</td>
<td>L2D</td>
<td>Cities</td>
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<td></td>
<td>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</td>
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<tr>
<td>URST 200-12E</td>
<td>Cities</td>
<td>200</td>
<td>L2E</td>
<td>Cities</td>
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<td></td>
<td>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</td>
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<tr>
<td>URST 200-12F</td>
<td>Cities</td>
<td>200</td>
<td>L2F</td>
<td>Cities</td>
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<tr>
<td></td>
<td>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 URST 352 or URST 200. Equivalency: GEOG 252. In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.</td>
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<tr>
<td>URST 200-301</td>
<td>Seminar in Urban Studies</td>
<td>400</td>
<td>201</td>
<td>Seminar in Urban Studies</td>
</tr>
<tr>
<td></td>
<td>A seminar for senior students who wish to explore some common topics of importance to urban studies from the viewpoints of several disciplines. Restricted to students with fourth-year standing or higher. In Person Learning Mon 11:00 a.m. - 2:00 p.m.</td>
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<tr>
<td>URST 200-302</td>
<td>Seminar in Urban Studies</td>
<td>400</td>
<td>202</td>
<td>Seminar in Urban Studies</td>
</tr>
<tr>
<td></td>
<td>A seminar for senior students who wish to explore some common topics of importance to urban studies from the viewpoints of several disciplines. Restricted to students with fourth-year standing or higher. In Person Learning Wed 11:00 a.m. - 2:00 p.m.</td>
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<tr>
<td>URST 200-501</td>
<td>Urban Research</td>
<td>450</td>
<td>201</td>
<td>Urban Research</td>
</tr>
<tr>
<td></td>
<td>Historical, legal, and quantitative analysis of urban research. Emphasis on spatial, racial, and political dynamics of urban inequality. Credit will be granted for only one of URST 450 or GEOG 450. Restricted to students with fourth-year standing or higher. Equivalency: GEOG 450. In Person Learning Tue 11:00 a.m. - 2:00 p.m.</td>
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<tr>
<td>URST 510-001</td>
<td>Urban and Regional Economics</td>
<td>510</td>
<td>001</td>
<td>Urban and Regional Economics</td>
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<tr>
<td></td>
<td>Urban systems and society</td>
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<td>Planning for engineers. Demand side planning: population and demand modeling; demand management. Supply side planning: long-term planning, strategic planning, data, metrics, indicators and assessment. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 10:30 a.m. - 12:30 p.m.</td>
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<tr>
<td>URST 540-101</td>
<td>Urban Systems Project Delivery and Economics</td>
<td>540</td>
<td>101</td>
<td>Urban Systems Project Delivery and Economics</td>
</tr>
<tr>
<td></td>
<td>Stakeholder practices: stakeholder engagement, public consultation, partnerships, stakeholder management, buy-in. Project delivery: project delivery options, public-private partnerships (PPP), integrated project delivery (IPD), partnering, modelling, analytical methods, and decision support economic and risk modelling. This course is not eligible for Credit/D/Fail grading. In Person Learning Tue Thu 1:00 p.m. - 3:10 p.m.</td>
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<tr>
<td>URST 550-001</td>
<td>Infrastructure Asset Management</td>
<td>550</td>
<td>001</td>
<td>Infrastructure Asset Management</td>
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<td></td>
<td>General framework 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 predictions, 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.</td>
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<tr>
<td>URST 550-101</td>
<td>Infrastructure Asset Management</td>
<td>550</td>
<td>101</td>
<td>Infrastructure Asset Management</td>
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<td></td>
<td>General framework 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 predictions, Lifecycle cost analysis (LCA), sustainability. This course is not eligible for Credit/D/Fail grading. Online Learning Wed 5:00 p.m. - 6:00 p.m.</td>
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<tr>
<td>VANH 140-D-V51</td>
<td>Content and Language Enrichment Tutorials</td>
<td>140</td>
<td>D-V01</td>
<td>Content and Language Enrichment Tutorials</td>
</tr>
<tr>
<td></td>
<td>Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning. In Person Learning Fri 3:00 p.m. - 5:00 p.m.</td>
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<tr>
<td>VANH 140-D-V52</td>
<td>Content and Language Enrichment Tutorials</td>
<td>140</td>
<td>D-V02</td>
<td>Content and Language Enrichment Tutorials</td>
</tr>
<tr>
<td></td>
<td>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.</td>
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<tr>
<td>VANH 140-D-V53</td>
<td>Content and Language Enrichment Tutorials</td>
<td>140</td>
<td>D-V03</td>
<td>Content and Language Enrichment Tutorials</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>VANH 140-D-V58</td>
<td>Content and Language Enrichment Tutorials</td>
<td>140</td>
<td>D-V08</td>
<td>Content and Language Enrichment Tutorials</td>
</tr>
<tr>
<td></td>
<td>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.</td>
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<tr>
<td>VANH 140-D-V59</td>
<td>Content and Language Enrichment Tutorials</td>
<td>140</td>
<td>D-V09</td>
<td>Content and Language Enrichment Tutorials</td>
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<td></td>
<td>Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning. In Person Learning Arranged</td>
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<tr>
<td>VANH 140-D-V60</td>
<td>Content and Language Enrichment Tutorials</td>
<td>140</td>
<td>D-V06</td>
<td>Content and Language Enrichment Tutorials</td>
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<td>Sustained language support for linked content courses in International Program. Students develop strategies for self-directed learning. In Person Learning Arranged</td>
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<tr>
<td>Code</td>
<td>Type</td>
<td>Course Name</td>
<td>Wk</td>
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<tr>
<td>VGRD_V 140-D_VE1</td>
<td>VGRD_V 140-D_VE1</td>
<td>Content and Language Enrichment Tutorials</td>
<td>W1-2</td>
<td>In Person Learning</td>
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<tr>
<td>VGRD_V 140-D_VE2</td>
<td>VGRD_V 140-D_VE2</td>
<td>Content and Language Enrichment Tutorials</td>
<td>W1-2</td>
<td>In Person Learning</td>
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<tr>
<td>VGRD_V 140-D_VE3</td>
<td>VGRD_V 140-D_VE3</td>
<td>Content and Language Enrichment Tutorials</td>
<td>W1-2</td>
<td>In Person Learning</td>
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<tr>
<td>VGRD_V 140-DNLU_D_V04</td>
<td>VGRD_V 140-DNLU_D_V04</td>
<td>Content and Language Enrichment Tutorials</td>
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<td>VGRD_V 140-DNLU_D_VE1</td>
<td>VGRD_V 140-DNLU_D_VE1</td>
<td>Content and Language Enrichment Tutorials</td>
<td>W1</td>
<td>In Person Learning</td>
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<tr>
<td>VGRD_V 140-DNLU_D_VE2</td>
<td>VGRD_V 140-DNLU_D_VE2</td>
<td>Content and Language Enrichment Tutorials</td>
<td>W2</td>
<td>In Person Learning</td>
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<tr>
<td>VGRD_V 148-VGM</td>
<td>VGRD_V 148-VGM</td>
<td>UBC Vantage College Projects</td>
<td>W1-2</td>
<td>In Person Learning</td>
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<tr>
<td>VGRD_V 150-VE1</td>
<td>VGRD_V 150-VE1</td>
<td>Sustainability and Engineering Design</td>
<td>W1-2</td>
<td>In Person Learning</td>
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<tr>
<td>VGRD_V 150-VT1</td>
<td>VGRD_V 150-VT1</td>
<td>Sustainability and Engineering Design</td>
<td>W1-2</td>
<td>In Person Learning</td>
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<tr>
<td>VGRD_V 150-VT2</td>
<td>VGRD_V 150-VT2</td>
<td>Sustainability and Engineering Design</td>
<td>W1-2</td>
<td>In Person Learning</td>
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<tr>
<td>VGRD_V 150-VT3</td>
<td>VGRD_V 150-VT3</td>
<td>Sustainability and Engineering Design</td>
<td>W1-2</td>
<td>In Person Learning</td>
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<tr>
<td>VGRD_V 500-001</td>
<td>VGRD_V 500-001</td>
<td>Visiting Master’s Student</td>
<td>W1-2</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>VGRD_V 500-101</td>
<td>VGRD_V 500-101</td>
<td>Visiting Master’s Student</td>
<td>W1</td>
<td>In Person Learning</td>
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<tr>
<td>VGRD_V 500-201</td>
<td>VGRD_V 500-201</td>
<td>Visiting Master’s Student</td>
<td>W2</td>
<td>In Person Learning</td>
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<tr>
<td>VGRD_V 500-301</td>
<td>VGRD_V 500-301</td>
<td>Visiting Master’s Student</td>
<td>W1</td>
<td>In Person Learning</td>
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<tr>
<td>VGRD_V 600-001</td>
<td>VGRD_V 600-001</td>
<td>Visiting Doctoral Student</td>
<td>W1-2</td>
<td>In Person Learning</td>
</tr>
<tr>
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<td>VGRD_V 600-101</td>
<td>Visiting Doctoral Student</td>
<td>W1</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>VGRD_V 600-201</td>
<td>VGRD_V 600-201</td>
<td>Visiting Doctoral Student</td>
<td>W2</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>VGRD_V 699-001</td>
<td>VGRD_V 699-001</td>
<td>Joint Doctoral Research Scholar</td>
<td>W1-2</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>VGRD_V 699-002</td>
<td>VGRD_V 699-002</td>
<td>Joint Doctoral Research Scholar</td>
<td>W2</td>
<td>In Person Learning</td>
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<tr>
<td>VGRD_V 699-003</td>
<td>VGRD_V 699-003</td>
<td>Joint Doctoral Research Scholar</td>
<td>W1</td>
<td>In Person Learning</td>
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<tr>
<td>VISA_V 110-001</td>
<td>VISA_V 110-001</td>
<td>Foundation Studio: Digital Media</td>
<td>W1</td>
<td>In Person Learning</td>
</tr>
<tr>
<td>VISA_V 110-002</td>
<td>VISA_V 110-002</td>
<td>Foundation Studio: Digital Media</td>
<td>W2</td>
<td>In Person Learning</td>
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<td>Course Code</td>
<td>Section</td>
<td>Building</td>
<td>Day</td>
<td>Time</td>
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<tr>
<td>VISA V 110-027</td>
<td>110</td>
<td>227</td>
<td>Thu</td>
<td>2:00 p.m. - 4:00 p.m.</td>
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<tr>
<td>VISA V 110-101</td>
<td>110</td>
<td>101</td>
<td>Mon</td>
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<td>VISA V 110-102</td>
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<td>Tue</td>
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VISA 210-001  Digital Arts  W1  
Examination of current art practices and issues related to digital technologies and contemporary culture, with an emphasis on the theoretical conceptualization of digital artistic media. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110. 
In Person Learning  Tue  2:00 p.m. - 5:00 p.m.

VISA 210-002  Digital Arts  W1  
Examination of current art practices and issues related to digital technologies and contemporary culture, with an emphasis on the theoretical conceptualization of digital artistic media. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110. 
In Person Learning  Wed  9:00 a.m. - 12:00 p.m.

VISA 210-003  Digital Arts  W2  
Examination of current art practices and issues related to digital technologies and contemporary culture, with an emphasis on the theoretical conceptualization of digital artistic media. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110. 
In Person Learning  Tue  2:00 p.m. - 5:00 p.m.

VISA 210-004  Digital Arts  W2  
Examination of current art practices and issues related to digital technologies and contemporary culture, with an emphasis on the theoretical conceptualization of digital artistic media. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110. 
In Person Learning  Arranged  Arranged

VISA 210-021  Digital Photography  W1  
Introduction to digital photography image creation in relation to contemporary art. Emphasis on digital cameras, 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. 
In Person Learning  Tue  2:00 p.m. - 5:00 p.m.

VISA 210-022  Digital Photography  W2  
Introduction to digital photography image creation in relation to contemporary art. Emphasis on digital cameras, 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. 
In Person Learning  Wed  2:00 p.m. - 5:00 p.m.

VISA 210-027  Digital Arts  W1  
Examination of current art practices and issues related to digital technologies and contemporary culture, with an emphasis on the theoretical conceptualization of digital artistic media. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110. 
In Person Learning  Mon  9:00 a.m. - 12:00 p.m.

VISA 210-028  Digital Arts  W2  
Examination of current art practices and issues related to digital technologies and contemporary culture, with an emphasis on the theoretical conceptualization of digital artistic media. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110. 
In Person Learning  Tue  2:00 p.m. - 5:00 p.m.

VISA 210-031  Digital Arts  W1  
Examination of current art practices and issues related to digital technologies and contemporary culture, with an emphasis on the theoretical conceptualization of digital artistic media. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183; or BMS student and VISA 110. 
In Person Learning  Fri  2:00 p.m. - 5:00 p.m.

VISA 220-001  Drawing  W1  
Development of skills in drawing including life drawing. Introduction to the development of personal style and concepts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183. 
In Person Learning  Tue  9:00 a.m. - 12:00 p.m.

VISA 220-002  Drawing  W1  
Development of skills in drawing including life drawing. Introduction to the development of personal style and concepts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183. 
In Person Learning  Wed  2:00 p.m. - 5:00 p.m.

VISA 220-003  Drawing  W2  
Development of skills in drawing including life drawing. Introduction to the development of personal style and concepts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183. 
In Person Learning  Tue  9:00 a.m. - 12:00 p.m.

VISA 220-004  Drawing  W2  
Development of skills in drawing including life drawing. Introduction to the development of personal style and concepts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183. 
In Person Learning  Wed  2:00 p.m. - 5:00 p.m.

VISA 220-031  Drawing  W1  
Development of skills in drawing including life drawing. Introduction to the development of personal style and concepts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183. 
In Person Learning  Tue  9:00 a.m. - 12:00 p.m.

VISA 220-032  Drawing  W1  
Development of skills in drawing including life drawing. Introduction to the development of personal style and concepts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183. 
In Person Learning  Tue  9:00 a.m. - 12:00 p.m.

VISA 220-033  Drawing  W2  
Development of skills in drawing including life drawing. Introduction to the development of personal style and concepts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183. 
In Person Learning  Wed  2:00 p.m. - 5:00 p.m.

VISA 220-034  Drawing  W2  
Development of skills in drawing including life drawing. Introduction to the development of personal style and concepts. Prerequisite: A score of 72% or higher in two of VISA 110, VISA 180, VISA 183. 
In Person Learning  Wed  2:00 p.m. - 5:00 p.m.

VISA 240-001  Photography  W1  
Introduction to digital photography image creation in relation to contemporary art. Emphasis on digital cameras, 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. 
In Person Learning  Thu  9:00 a.m. - 12:00 p.m.

VISA 240-002  Photography  W1  
Introduction to digital photography image creation in relation to contemporary art. Emphasis on digital cameras, 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. 
In Person Learning  Tue  9:00 a.m. - 12:00 p.m.

VISA 240-003  Photography  W2  
Introduction to digital photography image creation in relation to contemporary art. Emphasis on digital cameras, 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. 
In Person Learning  Wed  2:00 p.m. - 5:00 p.m.

VISA 240-004  Photography  W2  
Introduction to digital photography image creation in relation to contemporary art. Emphasis on digital cameras, 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. 
In Person Learning  Wed  2:00 p.m. - 5:00 p.m.
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</table>
A seminar in problems in contemporary art practice and related theory. Preference given to Visual Art students. This course is not eligible for Credit/D/Fail grading. 

**VISA 380-001** W1  
**Studio Theory**  

A seminar in problems in contemporary art practice and related theory. Preference given to Visual Art students. This course is not eligible for Credit/D/Fail grading. 

**VISA 381-001** W1  
**Studio Theory**  

A seminar in problems in contemporary art practice and related theory. Preference given to Visual Art students. This course is not eligible for Credit/D/Fail grading. 

**VISA 382-001** W1  
**Studio Theory**  

A seminar in problems in contemporary art practice and related theory. Preference given to Visual Art students. This course is not eligible for Credit/D/Fail grading. 

**VISA 383-001** W1  
**Studio Theory**  

Seminar-based studio focusing on performance and actions in the field of contemporary art. Prerequisite: 6 credits of 200 level VISA with an average of at least 72%. 

**VISA 386-001** W1  
**Performance Art**  

Seminar-based studio focusing on performance and actions in the field of contemporary art. Prerequisite: 6 credits of 200 level VISA with an average of at least 72%. 

**VISA 386-002** W2  
**Performance Art**  

Research-based studio with thematic or disciplinary focus. Intended for senior Visual Art students. This course is not eligible for Credit/D/Fail grading. Prerequisites: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 371, VISA 360. 

**VISA 401-A-001** W1  
**Advanced Open Studio** 

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. Prerequisites: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 371, VISA 360. 

**VISA 401-B-001** W1  
**Advanced Open Studio** 

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. Prerequisites: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 371, VISA 360. 

**VISA 401-C-001** W1  
**Advanced Open Studio** 

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. Prerequisites: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 371, VISA 360. 

**VISA 401-D-001** W1  
**Advanced Open Studio** 

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. Prerequisites: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 371, VISA 360. 

**VISA 401-E-001** W1  
**Advanced Open Studio** 

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. Prerequisites: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 371, VISA 360. 

**VISA 401-F-001** W2  
**Advanced Open Studio** 

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. Prerequisites: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 371, VISA 360. 

**VISA 401-G-001** W2  
**Advanced Open Studio** 

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. Prerequisites: Three of VISA 310, VISA 311, VISA 320, VISA 321, VISA 330, VISA 331, VISA 340, VISA 341, VISA 350, VISA 351, VISA 352, VISA 360, VISA 361, VISA 370, VISA 371, VISA 360. 

**VISA 401-H-001** W2  
**Advanced Open Studio** 

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. 

**VISA 475-001** W2  
**Exhibition Theory and Practice** 

A seminar in problems in contemporary art practice and related theory. Preference given to Visual Art students. This course is not eligible for Credit/D/Fail grading. 

**VISA 479-001** W1  
**Performance Actions and Approaches** 

Advanced seminar in problems in contemporary art practice and related theory. Preference given to Visual Art students. This course is not eligible for Credit/D/Fail grading. 

**VISA 480-001** W1  
**Advanced Seminar I** 

Advanced seminar in problems in contemporary art practice and related theory. Preference given to Visual Art students. This course is not eligible for Credit/D/Fail grading. 

**VISA 481-001** W2  
**Advanced Seminar II** 

Advanced seminar in problems in contemporary art practice and related theory. Preference given to Visual Art students. This course is not eligible for Credit/D/Fail grading. 

**VISA 482-001** W1  
**Advanced Tutorial in Studio I** 

Advanced seminar in problems in contemporary art practice and related theory. Preference given to Visual Art students. This course is not eligible for Credit/D/Fail grading. 

**VISA 483-001** W2  
**Advanced Tutorial in Studio I** 

Advanced seminar in problems in contemporary art practice and related theory. Preference given to Visual Art students. This course is not eligible for Credit/D/Fail grading. 

**VISA 491-001** W1  
**Advanced Tutorial in Studio II** 

Advanced seminar in problems in contemporary art practice and related theory. Preference given to Visual Art students. This course is not eligible for Credit/D/Fail grading. 

**VISA 492-001** W2  
**Advanced Tutorial in Studio II**
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Type</th>
<th>Location</th>
<th>Notes</th>
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<td>WACH V 549-002</td>
<td>WACH V 549 002 M.Sc. Thesis</td>
<td>W1</td>
<td>Pass/Fail</td>
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<td>In Person Learning</td>
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<td>WACH V 549-003</td>
<td>WACH V 549 003 M.Sc. Thesis</td>
<td>W2</td>
<td>Pass/Fail</td>
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<td>WACH V 549 001 Ph.D. Thesis</td>
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<td>W1</td>
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<td>WACH V 549-003</td>
<td>WACH V 549 003 Ph.D. Thesis</td>
<td>W2</td>
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<td>WOOD V 120-101</td>
<td>WOOD V 120 101 Introduction to Wood-Products and Global Trade</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Mon-We</td>
<td>1:00 p.m. - 2:00 p.m.</td>
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<tr>
<td>WOOD V 120-102</td>
<td>WOOD V 120 102 Introduction to Wood-Products and Global Trade</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Mon-We</td>
<td>10:00 a.m. - 11:00 a.m.</td>
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<td>WOOD V 120-103</td>
<td>WOOD V 120 103 Communications Strategies</td>
<td>W2</td>
<td>In Person Learning</td>
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<td>WOOD V 225-201</td>
<td>WOOD V 225 201 Quantitative Methods in the Wood Industry</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Wed-Fri</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<td>WOOD V 244-101</td>
<td>WOOD V 244 101 Quantitative Methods in the Wood Industry</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<td>WOOD V 245-101</td>
<td>WOOD V 245 101 Programming for Wood-Products Manufacturing Applications</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Mon</td>
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<tr>
<td>WOOD V 246-101</td>
<td>WOOD V 246 101 Programming for Wood-Products Manufacturing Applications</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed-Fri</td>
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<td>WOOD V 276-101</td>
<td>WOOD V 276 101 Mechanics of Wood Products</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Mon-We</td>
<td>5:00 a.m. - 7:00 a.m.</td>
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<td>WOOD V 276-102</td>
<td>WOOD V 276 102 Mechanics of Wood Products</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Tue</td>
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<td>WOOD V 280-101</td>
<td>WOOD V 280 101 Wood Anatomy and Identification</td>
<td>W1</td>
<td>In Person Learning</td>
<td>Mon-Fri</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<td>WOOD V 280 102 Wood Anatomy and Identification</td>
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<td>Thu</td>
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<td>WOOD V 282-201</td>
<td>WOOD V 282 201 Wood Physics and Mechanics</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Mon-Fri</td>
<td>9:00 a.m. - 10:00 a.m.</td>
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<td>WOOD V 282 202 Wood Physics and Mechanics</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Thu</td>
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<td>WOOD V 290 101 Secondary Wood Products Manufacturing</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Wed</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<td>WOOD V 290-102</td>
<td>WOOD V 290 102 Secondary Wood Products Manufacturing</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Tue</td>
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<td>WOOD V 290-103</td>
<td>WOOD V 290 103 Twin-Dimensional and Solid Computer-Alled Graphics</td>
<td>W2</td>
<td>In Person Learning</td>
<td>Fri</td>
<td>10:00 a.m. - 12:00 p.m.</td>
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<td>WOOD_V 310-101</td>
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<td>Co-operative Work Placement I</td>
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<td>Quality Improvement</td>
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<td>WOOD_V 316-101</td>
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<td>Machine Components</td>
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<td>WOOD_V 317-101</td>
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<td>Wood Adhesives and Coatings</td>
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<td>WOOD_V 318-101</td>
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<td>Wood Sawmilling and Drying</td>
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<td>WOOD_V 319-101</td>
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<td>WOOD_V 320-101</td>
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<td>WOOD_V 321-101</td>
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<td>WOOD_V 322-101</td>
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</table>

**Course Descriptions**:

- **WOOD_V 310-101**: Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students in the Co-operative Education Program in Wood Products Processing. This course is not eligible for Credit/D/Fail grading. Prerequisite: Permission of the Co-op Coordinator. In Person Learning Arranged Arranged

- **WOOD_V 311-101**: Approved and supervised work experience with a public or private organization for a minimum of 13 weeks full-time. Final work term assignment required. Restricted to students in the Co-operative Education Program in Wood Products Processing. This course is not eligible for Credit/D/Fail grading. Prerequisite: WOOD 310. In Person Learning Arranged Arranged

- **WOOD_V 312-101**: Use of industrial engineering concepts and methods to analyze and improve organizations, including operations strategy and competitiveness, quality control, work measurement, inventory management, linear programming, sensitivity analysis, transportation problems, and capacity planning. [3-2-0] Prerequisite: One of ECON 101, FRST 101 and one of FRST 216, NRES 216. In Person Learning Thu Thu 5:10 p.m. - 6:10 p.m.

- **WOOD_V 315-101**: Modern techniques for improving quality in the workplace with particular emphasis on the forest products industry. Topics include quality control management, control charts, continuous improvement and analysis of variance techniques. [2-2-0] Prerequisite: One of FRST 216, NRES 216. In Person Learning Mon Wed 11:00 a.m. - 12:00 p.m.

- **WOOD_V 316-101**: Machine components including drives, bearings, brakes, clutches, gears, springs. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: WOOD 216. In Person Learning Fri Fri 10:00 a.m. - 12:00 p.m.

- **WOOD_V 317-101**: Introduction to structure and properties of polymers and wood finishes; chemistry of adhesives and preservatives. [2-2-0] Prerequisite: One of CHEM 113, CHEM 123. In Person Learning Mon Wed 9:00 a.m. - 10:00 a.m.

- **WOOD_V 318-101**: Use of engineering economics to evaluate investment proposals of an engineering nature, including decision-making processes, time value of money, cash flow analysis, comparison methods, depreciation, replacement analysis, rates, inflation and sensitivity analysis. [2-2-0] Prerequisite: WOOD 314. In Person Learning Mon Wed 1:00 p.m. - 2:00 p.m.

- **WOOD_V 319-101**: Modern techniques for improving quality in the workplace with particular emphasis on the forest products industry. Topics include quality control management, control charts, continuous improvement and analysis of variance techniques. [2-2-0] Prerequisite: One of FRST 216, NRES 216. In Person Learning Fri Fri 10:00 a.m. - 12:00 p.m.

- **WOOD_V 320-101**: Use of industrial engineering concepts and methods to analyze and improve organizations, including operations strategy and competitiveness, quality control, work measurement, inventory management, linear programming, sensitivity analysis, transportation problems, and capacity planning. [3-2-0] Prerequisite: One of ECON 101, FRST 101 and one of FRST 216, NRES 216. In Person Learning Thu Thu 5:10 p.m. - 6:10 p.m.

- **WOOD_V 321-101**: Use of industrial engineering concepts and methods to analyze and improve organizations, including operations strategy and competitiveness, quality control, work measurement, inventory management, linear programming, sensitivity analysis, transportation problems, and capacity planning. [3-2-0] Prerequisite: One of ECON 101, FRST 101 and one of FRST 216, NRES 216. In Person Learning Thu Thu 5:10 p.m. - 6:10 p.m.

- **WOOD_V 322-101**: Machine components including drives, bearings, brakes, clutches, gears, springs. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: WOOD 216. In Person Learning Fri Fri 10:00 a.m. - 12:00 p.m.

- **WOOD_V 324-101**: Use of engineering economics to evaluate investment proposals of an engineering nature, including decision-making processes, time value of money, cash flow analysis, comparison methods, depreciation, replacement analysis, rates, inflation and sensitivity analysis. [2-2-0] Prerequisite: WOOD 314. In Person Learning Mon Wed 1:00 p.m. - 2:00 p.m.

- **WOOD_V 325-101**: Modern techniques for improving quality in the workplace with particular emphasis on the forest products industry. Topics include quality control management, control charts, continuous improvement and analysis of variance techniques. [2-2-0] Prerequisite: One of FRST 216, NRES 216. In Person Learning Fri Fri 10:00 a.m. - 12:00 p.m.

- **WOOD_V 326-101**: Machine components including drives, bearings, brakes, clutches, gears, springs. This course is not eligible for Credit/D/Fail grading. [2-2-0] Prerequisite: WOOD 216. In Person Learning Fri Fri 10:00 a.m. - 12:00 p.m.

- **WOOD_V 327-101**: Modern techniques for improving quality in the workplace with particular emphasis on the forest products industry. Topics include quality control management, control charts, continuous improvement and analysis of variance techniques. [2-2-0] Prerequisite: One of FRST 216, NRES 216. In Person Learning Fri Fri 10:00 a.m. - 12:00 p.m.

- **WOOD_V 328-101**: Introduction to structure and properties of polymers and wood finishes; chemistry of adhesives and preservatives. [2-2-0] Prerequisite: One of CHEM 113, CHEM 123. In Person Learning Mon Wed 9:00 a.m. - 10:00 a.m.

- **WOOD_V 329-101**: Introduction to structure and properties of polymers and wood finishes; chemistry of adhesives and preservatives. [2-2-0] Prerequisite: One of CHEM 113, CHEM 123. In Person Learning Mon Wed 9:00 a.m. - 10:00 a.m.

- **WOOD_V 330-101**: Directed Studies in Wood Products Processing. In special cases and with the approval of the instructor concerned, a student may carry on directed studies of specific problems in wood products processing. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged

- **WOOD_V 331-101**: Directed Studies in Wood Products Processing. In special cases and with the approval of the instructor concerned, a student may carry on directed studies of specific problems in wood products processing. The credit value for this course will be determined in consultation with the student prior to the registration. In Person Learning Arranged Arranged
WOOD.V 463-201  WOOD.V  463  201  Globalization and Sustainability  W2  Examination of globalization and its impact on sustainability, including social, economic, and environmental aspects. (3-2-2) Prerequisite: At least third-year standing.  In Person Learning  Wed  8:00 a.m. - 11:00 a.m.

WOOD.V 463-101  WOOD.V  463  101  Globalization and Sustainability  W2  Examination of globalization and its impact on sustainability, including social, economic, and environmental aspects. (3-2-2) Prerequisite: At least third-year standing.  In Person Learning  Mon  8:00 a.m. - 11:00 a.m.

WOOD.V 463-102  WOOD.V  463  102  Globalization and Sustainability  W2  Examination of globalization and its impact on sustainability, including social, economic, and environmental aspects. (3-2-2) Prerequisite: At least third-year standing.  In Person Learning  Fri  8:00 a.m. - 11:00 a.m.

WOOD.V 464-201  WOOD.V  464  201  Wood Finishing and Protection  W2  Introduction to paint and coating and finishes used in the wood products industry, surface preparation, application equipment and properties of various coatings, wood deterioration and protection for external applications. (3-0-2) Prerequisite: All of WOOD 280, WOOD 275.  In Person Learning  Mon  3:00 p.m. - 12:00 a.m.

WOOD.V 482-201  WOOD.V  482  201  CAD/CAM  W2  Introduction to computer assisted design and manufacturing with a focus on the fundamental issues of geometry and machine tools including an understanding of standard computer tools. Applications to secondary wood products manufacturing. This course is not eligible for Credit/D/Fail grading. (3-4-2) Prerequisite: All of WOOD 240, WOOD 242.  In Person Learning  Wed  3:00 p.m. - 4:00 p.m.

WOOD.V 482-LA1  WOOD.V  482  LA1  CAD/CAM  W2  Introduction to computer assisted design and manufacturing with a focus on the fundamental issues of geometry and machine tools including an understanding of standard computer tools. Applications to secondary wood products manufacturing. This course is not eligible for Credit/D/Fail grading. (3-4-2) Prerequisite: All of WOOD 240, WOOD 242.  In Person Learning  Tue  11:00 a.m. - 2:00 p.m.

WOOD.V 482-LA2  WOOD.V  482  LA2  CAD/CAM  W2  Introduction to computer assisted design and manufacturing with a focus on the fundamental issues of geometry and machine tools including an understanding of standard computer tools. Applications to secondary wood products manufacturing. This course is not eligible for Credit/D/Fail grading. (3-4-2) Prerequisite: All of WOOD 240, WOOD 242.  In Person Learning  Thu  11:00 a.m. - 2:00 p.m.

WOOD.V 485-101  WOOD.V  485  101  Furniture Construction  W1  The theory and practice of modern construction techniques used in the manufacture of furniture and cabinets. (3-4-2) Prerequisite: All of WOOD 280, WOOD 285.  In Person Learning  Tue  8:00 a.m. - 12:00 p.m.

WOOD.V 485-101  WOOD.V  485  101  Furniture Construction  W1  The theory and practice of modern construction techniques used in the manufacture of furniture and cabinets. (3-4-2) Prerequisite: All of WOOD 280, WOOD 285.  In Person Learning  Fri  8:00 a.m. - 11:00 a.m.

WOOD.V 487-201  WOOD.V  487  201  Wood Composites  W2  Physical, chemical and mechanical variables involved in adhesive bonding of composite wood products; characteristics of adhesives, plywood, composite wood panels,定向板, medium density fiberboard, laminated wood and engineered lumber composites manufacturing processes; important physical and chemical properties of products. (2-3-0) Prerequisite: WOOD 370.  In Person Learning  Fri  8:00 a.m. - 12:00 p.m.

WOOD.V 487-101  WOOD.V  487  101  Wood Composites  W2  Physical, chemical and mechanical variables involved in adhesive bonding of composite wood products; characteristics of adhesives, plywood, composite wood panels,定向板, medium density fiberboard, laminated wood and engineered lumber composites manufacturing processes; important physical and chemical properties of products. (2-3-0) Prerequisite: WOOD 370.  In Person Learning  Tue  11:00 a.m. - 2:00 p.m.

WOOD.V 487-102  WOOD.V  487  102  Wood Composites  W2  Physical, chemical and mechanical variables involved in adhesive bonding of composite wood products; characteristics of adhesives, plywood, composite wood panels,定向板, medium density fiberboard, laminated wood and engineered lumber composites manufacturing processes; important physical and chemical properties of products. (2-3-0) Prerequisite: WOOD 370.  In Person Learning  Thu  11:00 a.m. - 2:00 p.m.

WOOD.V 488-101  WOOD.V  488  101  Wood Products Design and Development I  W1  Introduction to wood products design, from the product idea to the production-ready design. This course is not eligible for Credit/D/Fail grading. (3-4-2) Prerequisite: All of WOOD 360, WOOD 485, WOOD 486.  In Person Learning  Tue  2:30 p.m. - 5:30 p.m.

WOOD.V 491-201  WOOD.V  491  201  Environmental Facilities Design  W2  Introduction to pneumatic and hydraulic power, design and selection of waste recycling systems, boiler, energy generation and environmental legislation. (3-3) Prerequisite: Fourth-year standing.  In Person Learning  Mon  12:00 p.m. - 3:30 p.m.

WOOD.V 491-101  WOOD.V  491  101  Environmental Facilities Design  W2  Introduction to pneumatic and hydraulic power, design and selection of waste recycling systems, boiler, energy generation and environmental legislation. (3-3) Prerequisite: Fourth-year standing.  In Person Learning  Fri  12:00 p.m. - 3:00 p.m.

WOOD.V 492-201  WOOD.V  492  201  Modelling For Decisions Support  W1  Applications of mathematical modelling, optimization, and simulation in forest planning and manufacturing; formulating models and interpreting results for decision support. (3-3) Prerequisite: One of FRST 232, NRES 232, WOOD 245.  In Person Learning  Mon  11:00 a.m. - 12:00 p.m.

WOOD.V 492-101  WOOD.V  492  101  Modelling For Decisions Support  W1  Applications of mathematical modelling, optimization, and simulation in forest planning and manufacturing; formulating models and interpreting results for decision support. (3-3) Prerequisite: One of FRST 232, NRES 232, WOOD 245.  In Person Learning  Fri  11:00 a.m. - 1:00 p.m.

WOOD.V 494-101  WOOD.V  494  101  Principles of Wood Cutting and Tooling  W1  Wood cutting fundamentals, chip formation, cutting conditions, cutting-edge maintenance, sawing, planing and molding, veneer cutting, chip sizing. (2-2-1) Prerequisite: WOOD 380.  In Person Learning  Tue  11:00 a.m. - 2:00 p.m.

WOOD.V 494-101  WOOD.V  494  101  Principles of Wood Cutting and Tooling  W1  Wood cutting fundamentals, chip formation, cutting conditions, cutting-edge maintenance, sawing, planing and molding, veneer cutting, chip sizing. (2-2-1) Prerequisite: WOOD 380.  In Person Learning  Thu  8:00 a.m. - 12:00 p.m.

WOOD.V 495-201  WOOD.V  495  201  Wood Products Capstone  W2  Development of a wood products manufacturing start-up company. Development of comprehensive business plan, marketing strategy, product design, equipment selection and justification, manufacturing plant layout, and economic analyses. This course is not eligible for Credit/D/Fail grading. (3-4-2) Prerequisite: All of WOOD 365, WOOD 440 and fourth-year standing in Wood Products Processing.  In Person Learning  Thu  3:00 p.m. - 5:00 p.m.

WOOD.V 495-202  WOOD.V  495  202  Wood Products Capstone  W2  Development of a wood products manufacturing start-up company. Development of comprehensive business plan, marketing strategy, product design, equipment selection and justification, manufacturing plant layout, and economic analyses. This course is not eligible for Credit/D/Fail grading. (3-4-2) Prerequisite: All of WOOD 365, WOOD 440 and fourth-year standing in Wood Products Processing.  In Person Learning  Tue  8:00 a.m. - 11:00 a.m.
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Courses 499 and 570-C may be arranged when the following conditions are met: WOOD 365, WOOD 440, and fourth-year standing in Wood Products Processing. This course is not eligible for Credit/D/Fail grading. [4-2-3] Prerequisite: All of WOOD 365, WOOD 440, and fourth-year standing in Wood Products Processing.
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This course is not eligible for Credit/D/Fail grading.
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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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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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In Person Learning

WRDS.V 150-B_901 WRDS.V 150 B B_861 Writing and Research in the Disciplines W2 8:00 a.m. - 9:30 a.m. 
WRDS.V 150-B_901 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.

WRDS.V 150-B_902 WRDS.V 150 B B_862 Writing and Research in the Disciplines W2 8:00 a.m. - 9:30 a.m. 
WRDS.V 150-B_902 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.

WRDS.V 150-B_910 WRDS.V 150 B B_910 Writing and Research in the Disciplines W2 Arranged Arranged
WRDS.V 150-B_910 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.

WRDS.V 150-B_911 WRDS.V 150 B B_911 Writing and Research in the Disciplines W2 In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.
WRDS.V 150-B_911 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.

WRDS.V 150-B_912 WRDS.V 150 B B_912 Writing and Research in the Disciplines W2 In Person Learning Tue Thu 9:30 a.m. - 11:00 a.m.
WRDS.V 150-B_912 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.

WRDS.V 150-B_921 WRDS.V 150 B B_921 Writing and Research in the Disciplines W2 In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.
WRDS.V 150-B_921 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 150-B_931 WRDS.V 150 B B_931 Writing and Research in the Disciplines W2 In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.
WRDS.V 150-B_931 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.

WRDS.V 150-B_941 WRDS.V 150 B B_941 Writing and Research in the Disciplines W2 Online Learning Tue Thu 11:00 a.m. - 12:30 p.m.
WRDS.V 150-B_941 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.

WRDS.V 150-B_951 WRDS.V 150 B B_951 Writing and Research in the Disciplines W2 Online Learning Tue Thu 11:00 a.m. - 12:30 p.m.
WRDS.V 150-B_951 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.

WRDS.V 150-DNU_B_731 WRDS.V 150-DNU B_731 Writing and Research in the Disciplines W1 In Person Learning Arranged Arranged
WRDS.V 150-DNU_B_731 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.

WRDS.V 200-001 WRDS.V 200 B B_001 Writing and Communication Foundations W1 In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.
WRDS.V 200-001 Key principles of writing and communication and issues currently debated in the field of Writing Studies. The role of writing and communication in making knowledge, constructing identity, and exercising power. Restricted to students with second year standing or above.

WRDS.V 200-100 WRDS.V 200 B B_100 Writing and Communication Foundations W2 In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.
WRDS.V 200-100 Key principles of writing and communication and issues currently debated in the field of Writing Studies. The role of writing and communication in making knowledge, constructing identity, and exercising power. Restricted to students with second year standing or above.

WRDS.V 250-001 WRDS.V 250 B B_001 Evaluating Knowledge Production and Mobilization W1 In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.
WRDS.V 250-001 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 discourse contexts, rhetorical goals, and communication forms. Prerequisite: One of ASTU 100, ASTU 101, WRDS 150, WRDS 350.

WRDS.V 250-001 WRDS.V 250 B B_001 Evaluating Knowledge Production and Mobilization W2 In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.
WRDS.V 250-001 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 discourse contexts, rhetorical goals, and communication forms. Prerequisite: One of ASTU 100, ASTU 101, WRDS 150, WRDS 350.

WRDS.V 250-100 WRDS.V 250 B B_100 Evaluating Knowledge Production and Mobilization W1 In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.
WRDS.V 250-100 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 discourse contexts, rhetorical goals, and communication forms. Prerequisite: One of ASTU 100, ASTU 101, WRDS 150, WRDS 350.

WRDS.V 250-100 WRDS.V 250 B B_100 Evaluating Knowledge Production and Mobilization W2 In Person Learning Tue Thu 11:00 a.m. - 12:30 p.m.
WRDS.V 250-100 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 discourse contexts, rhetorical goals, and communication forms. Prerequisite: One of ASTU 100, ASTU 101, WRDS 150, WRDS 350.

WRDS.V 350-001 WRDS.V 350 B B_001 Knowledge-Making in the Disciplines W1 In Person Learning Mon Wed 11:00 a.m. - 12:30 p.m.
WRDS.V 350-001 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.

WRDS.V 350-002 WRDS.V 350 B B_002 Knowledge-Making in the Disciplines W1 In Person Learning Tue Thu 2:00 p.m. - 3:30 p.m.
WRDS.V 350-002 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.
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Courses will be determined in consultation with the student prior to registration.
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