Courses of Instruction

This section presents the descriptions of all courses offered at the University of Victoria. Courses are listed in alphabetical order by course abbreviation (BIOL, EDUC). The course abbreviations for all courses offered within each faculty are listed on page 346. A list of the course abbreviations and their corresponding subject areas is presented on page 349.

Please note that not all courses listed are necessarily offered every year; students should consult the department or faculty concerned for an official listing of the courses that will be offered in a given session. Registration and current timetable information is also available on the web at <uvic.ca/course-registration>.

Students must ensure that they are familiar with the program requirements and restrictions noted in the entry for each academic unit.
# COURSES BY FACULTY

## Division of Medical Sciences

<table>
<thead>
<tr>
<th>Code</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDES</td>
<td>Medical Science</td>
</tr>
</tbody>
</table>

## Faculty of Education

<table>
<thead>
<tr>
<th>Code</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE</td>
<td>Art Education</td>
</tr>
<tr>
<td>ED-D</td>
<td>Educational Psychology and Leadership Studies</td>
</tr>
<tr>
<td>ED-P</td>
<td>Curriculum and Instruction Studies</td>
</tr>
<tr>
<td>EDCI</td>
<td>Curriculum and Instruction Studies</td>
</tr>
<tr>
<td>EDUC</td>
<td>Education</td>
</tr>
<tr>
<td>EPHE</td>
<td>Exercise Science, Physical and Health Education</td>
</tr>
<tr>
<td>IA</td>
<td>Interdisciplinary Arts</td>
</tr>
<tr>
<td>IED</td>
<td>Indigenous Education</td>
</tr>
</tbody>
</table>

## Faculty of Engineering

<table>
<thead>
<tr>
<th>Code</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>BME</td>
<td>Biomedical Engineering</td>
</tr>
<tr>
<td>CIVE</td>
<td>Civil Engineering</td>
</tr>
<tr>
<td>CSC</td>
<td>Computer Science</td>
</tr>
<tr>
<td>ECE</td>
<td>Electrical and Computer Engineering</td>
</tr>
<tr>
<td>ENGR</td>
<td>Engineering</td>
</tr>
<tr>
<td>MECH</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>SENG</td>
<td>Software Engineering</td>
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</table>

## Faculty of Fine Arts

<table>
<thead>
<tr>
<th>Code</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHVS</td>
<td>Art History and Visual Arts</td>
</tr>
<tr>
<td>ART</td>
<td>Visual Arts</td>
</tr>
<tr>
<td>CW</td>
<td>Creative Writing (En’owkin Centre)</td>
</tr>
<tr>
<td>FA</td>
<td>Fine Arts</td>
</tr>
<tr>
<td>MUS</td>
<td>Music</td>
</tr>
<tr>
<td>THEA</td>
<td>Theatre</td>
</tr>
<tr>
<td>WRIT</td>
<td>Writing</td>
</tr>
</tbody>
</table>

## Faculty of Human and Social Development

<table>
<thead>
<tr>
<th>Code</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMN</td>
<td>Public Administration</td>
</tr>
<tr>
<td>AGEI</td>
<td>Ageing</td>
</tr>
<tr>
<td>CYC</td>
<td>Child and Youth Care</td>
</tr>
<tr>
<td>CYCB</td>
<td>Indigenous Community-based Child and Youth Care</td>
</tr>
<tr>
<td>CYCI</td>
<td>Child and Youth Care International</td>
</tr>
<tr>
<td>DSST</td>
<td>Disability Studies</td>
</tr>
<tr>
<td>HINF</td>
<td>Health Information Science</td>
</tr>
<tr>
<td>HLTH</td>
<td>Health</td>
</tr>
<tr>
<td>HSD</td>
<td>Human and Social Development</td>
</tr>
<tr>
<td>ICDG</td>
<td>Indigenous Community Development and Governance</td>
</tr>
<tr>
<td>IGOV</td>
<td>Indigenous Governance</td>
</tr>
<tr>
<td>INGH</td>
<td>Indigenous Health Studies</td>
</tr>
<tr>
<td>INTS</td>
<td>International Health Studies</td>
</tr>
<tr>
<td>NURS</td>
<td>Nursing</td>
</tr>
<tr>
<td>SOCW</td>
<td>Social Work</td>
</tr>
</tbody>
</table>

## Faculty of Humanities
| ARTS     | Arts                      | Department of Linguistics |
| ASL      | American Sign Language   | Department of Linguistics |
| DHUM     | Digital Humanities       |                            |
| ENGL     | English                  | Department of English      |
| FRAN     | French                   | Department of French       |
| GNDR     | Gender Studies           | Department of Gender Studies |
| GMST     | Germanic Studies         | Department of Germanic and Slavic Studies |
| GREE     | Greek                    | Department of Greek and Roman Studies |
| GRS      | Greek and Roman Studies  | Department of Greek and Roman Studies |
| HSTR     | History                  | Department of History      |
| HUMA     | Humanities               | Program in Indigenous Studies |
| IS       | Indigenous Studies       | Department of Hispanic and Italian Studies |
| ITAL     | Italian                  | Latin American Studies Program |
| LAS      | Latin American Studies   | Department of Greek and Roman Studies |
| LATI     | Latin                    | Department of Linguistics  |
| LING     | Linguistics              | Medieval Studies Program   |
| MEDI     | Medieval Studies         | Department of Pacific and Asian Studies |
| PAAS     | Pacific and Asian Studies| Department of Hispanic and Italian Studies |
| PHIL     | Philosophy               | Department of Philosophy   |
| PORT     | Portuguese               | Religious Studies Program  |
| RS       | Religious Studies        | Department of Germanic and Slavic Studies |
| SLST     | Slavic Studies           | Department of Hispanic and Italian Studies |
| SPAN     | Spanish                  |                            |

**Faculty of Law**

| LAW      | Law                      |                            |

**Faculty of Science**

| ASTR     | Astronomy                | Department of Physics and Astronomy |
| BCMB     | Biochemistry and Microbiology | Department of Biochemistry and Microbiology |
| BIOC     | Biochemistry              | Department of Biochemistry and Microbiology |
| BIOL     | Biology                   | Department of Biology       |
| CHEM     | Chemistry                 | Department of Chemistry     |
| EOS      | Earth and Ocean Sciences  | School of Earth and Ocean Sciences |
| MATH     | Mathematics               | Department of Mathematics and Statistics |
| MICR     | Microbiology              | Department of Biochemistry and Microbiology |
| MRNE     | Marine Science            | Department of Biology       |
| PHYS     | Physics                   | Department of Physics and Astronomy |
| SCIE     | Science                   | Department of Mathematics and Statistics |
| STAT     | Statistics                |                            |

**Faculty of Social Sciences**

| ANTH     | Anthropology             | Department of Anthropology |
| ECON     | Economics                | Department of Economics    |
| ER       | Environmental Restoration| School of Environmental Studies |
| ES       | Environmental Studies    | School of Environmental Studies |
| GEOG     | Geography                | Department of Geography    |
| POLI     | Political Science        | Department of Political Science |
| PSYC     | Psychology               | Department of Psychology   |
### Interdisciplinary Programs

<table>
<thead>
<tr>
<th>Code</th>
<th>Program</th>
<th>School</th>
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</thead>
<tbody>
<tr>
<td>ACAN</td>
<td>Arts of Canada</td>
<td>Program in the Arts of Canada</td>
</tr>
<tr>
<td>CS</td>
<td>Canadian Studies</td>
<td>Diploma Program in Canadian Studies</td>
</tr>
<tr>
<td>EUS</td>
<td>European Studies</td>
<td>Political Science</td>
</tr>
<tr>
<td>GDS</td>
<td>Global Development Studies</td>
<td></td>
</tr>
<tr>
<td>HDCC</td>
<td>Human Dimensions of Climate Change</td>
<td></td>
</tr>
<tr>
<td>HS</td>
<td>Health and Society</td>
<td></td>
</tr>
<tr>
<td>ISP</td>
<td>Intercultural Studies and Practice</td>
<td>Diploma in Intercultural Studies and Practice</td>
</tr>
<tr>
<td>SJS</td>
<td>Social Justice Studies</td>
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</tr>
<tr>
<td>TS</td>
<td>Technology and Society</td>
<td></td>
</tr>
<tr>
<td>VIRS</td>
<td>Visiting International Research Studies</td>
<td></td>
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</tbody>
</table>

### Peter B. Gustavson School of Business

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>COM</td>
<td>Commerce</td>
</tr>
<tr>
<td>ENT</td>
<td>Entrepreneurship</td>
</tr>
<tr>
<td>IB</td>
<td>International Business</td>
</tr>
<tr>
<td>SMGT</td>
<td>Service Management</td>
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</table>
COURSES BY SUBJECT AREA

Ageing.................................................................AGEI
    Faculty of Human and Social Development
American Sign Language ..................................ASL
    Faculty of Humanities
Anthropology .......................................................ANTH
    Faculty of Social Sciences
Art Education .......................................................AE
    Faculty of Education
Art History and Visual Arts ..............................AHVS
    Faculty of Fine Arts
Arts ...........................................................................ARTS
    Faculty of Humanities
Arts of Canada ....................................................ACAN
    Interdisciplinary Programs
Astronomy ..............................................................ASTR
    Faculty of Science
Biochemistry ...........................................................BIOC
    Faculty of Science
Biochemistry and Microbiology .......................BCMB
    Faculty of Science
Biological Science .................................................BIOL
    Faculty of Science
Biomedical Engineering .....................................BME
    Faculty of Engineering
Canadian Studies ..................................................CS
    Interdisciplinary Programs
Chemistry ..............................................................CHEM
    Faculty of Science
Child and Youth Care ...........................................CYC
    Faculty of Human and Social Development
Child and Youth Care International .................CYCI
    Faculty of Human and Social Development
Civil Engineering ..................................................CIVE
    Faculty of Engineering
Commerce .............................................................COM
    Peter B. Gustavson School of Business
Computer Science ...............................................CSC
    Faculty of Engineering
Creative Writing (En’owkin Centre) .....................CW
    Faculty of Fine Arts
Curriculum and Instruction Studies ....................ED-P
    Faculty of Education
Curriculum and Instruction Studies ....................EDCI
    Faculty of Education

Digital Humanities ..............................................DHUM
    Faculty of Humanities
Disability Studies ..................................................DSST
    Faculty of Human and Social Development
Earth and Ocean Sciences ..............................EOS
    Faculty of Science
Economics .............................................................ECON
    Faculty of Social Sciences
Education .............................................................EDUC
    Faculty of Education
Educational Psychology and Leadership Studies ....ED-D
    Faculty of Education
Electrical Engineering ........................................ECE
    Faculty of Engineering
Engineering ..........................................................ENGR
    Faculty of Engineering
English .................................................................ENGL
    Faculty of Humanities
Entrepreneurship .................................................ENT
    Peter B. Gustavson School of Business
Environmental Restoration ...............................ER
    Faculty of Social Sciences
Environmental Studies .......................................ES
    Faculty of Social Sciences
European Studies ................................................EUS
    Interdisciplinary Programs
Exercise Science, Physical and Health Education ....EPHE
    Faculty of Education
Fine Arts ...............................................................FA
    Faculty of Fine Arts
First Nations Governments and Administration ....FNGA
    Faculty of Human and Social Development
French .................................................................FRAN
    Faculty of Humanities
Geography ............................................................GEOG
    Faculty of Humanities
Gender Studies .....................................................GNDR
    Faculty of Humanities
Germanic Studies ................................................GMST
    Faculty of Humanities
Global Development Studies ..............................GDS
    Interdisciplinary Programs
Greek .................................................................GREE
    Faculty of Humanities
Greek and Roman Studies .................................GRS
    Faculty of Humanities
Statistics.................................................................................................................................. STAT
  Faculty of Science
Technology and Society.................................................................................................... TS
  Interdisciplinary Programs
Theatre......................................................................................................................... THEA
Faculty of Fine Arts
Visual Arts..................................................................................................................... ART
Faculty of Fine Arts
Writing......................................................................................................................... WRIT
  Faculty of Fine Arts
How to use the Course Listings

Course abbreviation and number
Courses are listed alphabetically by course abbreviation of up to four letters (e.g., ANTH for Anthropology) and course number (e.g., 100). Courses are listed alphabetically by course abbreviation of up to four letters (e.g., ANTH for Anthropology) and course number (e.g., 100). Three numbers are used for course number plus a letter as appropriate. The first digit indicates the year level:
- 0 university-level upgrading or undergraduate co-op work term
- 1 to 4 undergraduate level
- 5, 6 graduate level
- 7 Education Professional Year
- 8 Graduate co-op work term

Cross-listed courses
The same course may be offered by two different departments. Such courses are listed twice, once under each department course abbreviation. Students may obtain credit for the course from either department, but not both.

Former course abbreviation and number
If a course was previously offered at UVic under another abbreviation and number, the former abbreviation and number are shown here.

Prerequisites and corequisites
Prerequisites are courses or other requirements that must be completed before a student may register in a course. Corequisites are courses or other requirements that must be completed at the same time as a specific course. For more information on how to read prerequisites, see <www.uvic.ca/prereq>.

SAMP 101
Units: 1.5
Hours: 3-0-1
Sample Course Name
Also: CD 100
Formerly: SAMP 100A
This sample course description illustrates the notations commonly found in a course description. Not all course descriptions include all the information shown in this sample. For clarification on any information presented in a course description, contact the department or faculty offering the course.
Note: Credit will be granted for only one of SAMP 101, SAMP 100A, CD 100.
Prerequisite(s): Admission to the program.
Grading: INP/COM, N, F.

Units of credit
This is the number of units of credit assigned to a course. Some courses are listed with variable units (e.g., 1.5-3.0). Further information on the unit value of the course will usually be found in the course note. Students may also contact the department or faculty offering the course for information on variable unit courses.

Hours of instruction
These numbers refer to the hours of instruction per week:
- 1st digit: hours assigned for lectures or seminars
- 2nd digit: hours assigned for laboratory or practical sessions
- 3rd digit: hours assigned to tutorials

Notes
Notes provide information about any restrictions on the assignment of credit in cases where content overlaps, as well as the maximum allowable credit for courses that may be taken more than once. Notes may also provide additional information about a course.

Grading
Courses that are not graded using standard letter grades include the alternative classifications for evaluation.

Course descriptions do not include information on when courses will be offered. That information is available at <www.uvic.ca/timetable>.
ACAN

Arts of Canada
Program in the Arts of Canada
Interdisciplinary Programs

ACAN 225 Units: 3.0 Hours: 3-0-0
Also: FA 225
Introduction to the Arts of Canada
An interdisciplinary examination of Canada's cultural identity and of current issues facing the arts in both French and English speaking Canada. Topics to be considered include aboriginal arts, theatre, history in art, visual and literary arts, music, multiculturalism, broadcasting and cultural policies.
Note: Credit will be granted for only one of ACAN 225, FA 225.

ADMN

Public Administration
School of Public Administration
Faculty of Human and Social Development

ADMN 200 Units: 1.5 Hours: 2-0-1
International Community Development Through
Activism and Capacity Building
Students will examine the role they can play to improve their communities in Canada and abroad. Topics include international community development issues and how economic disparities are threatening communities across the globe, including threats to the ecology, health, education, governance, peace, and personal rights and freedoms. Examines how individuals, non-profit organizations, governments and social movements can build capacity for change in Canada and in other countries.

ADMN 310 Units: 1.5
Public Sector Economics
An introduction to the principles of microeconomics for public sector policy analysis and management. Students are introduced to economic principles, including supply and demand; household behaviour and consumer choice; production, labour and capital markets; competition policy and regulation; market failures and government intervention; income distribution and taxation. Topics include the national income and expenditure accounts, unemployment and inflation.
Note: Credit will be granted for only one of ADMN 310, ADMN 403, ECON 103, ECON 103C, ECON 180, ECON 201, ENGR 280 (if taken prior to May 2012).

ADMN 311 Units: 1.5
Also: POLI 350
Introduction to Public Administration
An exploration of the external factors affecting contemporary public sector management in Canada, the changing structural and value context within which public servants work, the key processes in which they are engaged and how those processes are changing. Focus is primarily on the federal and provincial governments, but references will also be made to public administration at other levels.
Note: Credit will be granted for only one of ADMN 311, HSD 404, POLI 350.

ADMN 312 Units: 1.5
Managing in Public and Non-Profit Organizations
An examination of the skills of an effective manager in public and non-profit sector organizations and the interplay between management and key organizational processes such as planning, organizing, implementing and evaluating policies, programs and services. Management topics include: managerial work, interpersonal and leadership skills, power and influence, conflict resolution, formal and informal communications, motivation and teamwork. A project on managing organizational change is used as a way to connect manager behaviours and organizational processes.
Note: Credit will be granted for only one of ADMN 312, ADMN 406.

ADMN 314 Units: 1.5
Public Sector Research and Analysis
An introduction to research methods in public and non-profit sector settings. Students learn to become informed consumers and critics of research and more effective managers of research-related projects. Data analysis skills are also strengthened with the use of spreadsheet software. Topics include definitions and types of research; research design; measurement; methods of data collection; data coding; descriptive and inferential statistics; relationships between variables; ethical and organizational issues; and the research proposal and report.

ADMN 316 Units: 1.5
Written Communications in the Public and Non-Profit Sectors
Topics include how to: analyze a communication task; identify the topic, purpose and audience; write and edit professionally with a good command of standard written English and principles of plain language; gather, paraphrase, summarize, analyze or interpret complex information from print and electronic sources; describe complex policies and procedures; apply the principles of document structure and design, write proposals, and design and develop the types of documents required in the public and non-profit sectors.
Notes:
• Credit will be granted for only one of ADMN 316, ENGL 302.
• Students should take this course early in their Diploma program.

ADMN 407 Units: 1.5
Managing Service Delivery
Explores challenges facing public sector managers who develop or transform public services with a strong focus on service recipients. Examines the drivers of service transformation movement, surveys the ways that public services can be reformed and then works through a framework for assessing service needs, engaging service recipients and stakeholders, making a business case for transformation, implementing new delivery arrangements (including networks and partnerships), managing across boundaries, and building in performance measurement and accountability.
Prerequisite(s): ADMN 311 or POLI 350.

ADMN 409 Units: 1.5
Leading and Managing in the Non-Profit Sector
An overview of management in Canada's non-profit and voluntary sector. Students will examine the size, scope, structure, functions, value bases, and uniqueness of the non-profit sector, plus the differences among the non-profit, public and private sectors. Topics include: leadership, board governance, strategic analysis, volunteer management and partnering. Students will analyze how management concepts, models, principles and techniques have validity as applied in the context of non-profit and voluntary sector organizations.

ADMN 411 Units: 1.5
Public Sector Project Management
Provides an understanding of project management; differences between private, non-profit and public sector project management; and how the dynamics of change and leadership impact project success. Topics include: what project management is and is not; project leadership, risk management; project planning, scheduling and critical path; problem solving, project governance, accountability and transparency; project sponsor role; change management including assessing readiness for change; setting up change governance structures to sustain change; best practices; and project evaluation.
Note: Credit will be granted for only one of ADMN 411, ADMN 470 (if taken in the same topic).

ADMN 420 Units: 1.5
The Public Policy Process
An introduction to the policy process in the public sector. Includes analysis of current theories of policy-making and examines case studies from Canadian contexts. Topics include: policy formation, the policy communication process, the structural aspects of policy execution, and the human dimensions of implementation and coordination of policies in public sector organizations.
Note: Credit will be granted for only one of ADMN 420, ADMN 465.
Prerequisite(s): ADMN 311 or POLI 350.
Recommendation(s): ADMN 310 and/or ADMN 314 recommended prior to ADMN 420.

ADMN 421 Units: 1.5
Financial Management
Provides a foundation in public sector financial management, focused on the needs of the manager working in government. Topics include: government financial statements and their analysis; public sector accounting standards and financial reporting; operational and capital budgeting; public sector financial management; cost management and control; accountability and performance measurement. Covers all levels of government in Canada: municipal, provincial and federal. Requires that students be competent in the use of the Excel spreadsheet program.
Note: Credit will be granted for only one of ADMN 421, ADMN 448.
ADMN 422 Units: 1.5
Ethical Public Management
An exploration of value and ethical dilemmas which confront public and quasi-public sector officials in the workplace. Focuses on process dilemmas related to political neutrality, confidentiality, privacy, fairness and accountability, as well as issues related to good, just and legitimate public policy. Students will have an opportunity to develop their own moral reasoning skills and apply them in case studies.
Note: Credit will be granted for only one of ADMN 422, ADMN 554.

ADMN 423 Units: 1.5
Local Government in British Columbia
An examination of the legislative framework, organization, operation and finance of local government service delivery and regulation in British Columbia.
Note: Credit will be granted for only one of ADMN 423, ADMN 545.

ADMN 431A Units: 1.5
Public Sector Human Resource Management
Examines various aspects of the human resource function within public sector organizations and compares current theory and practice in human resource planning; job analysis and design; recruitment and selection; performance management; training; career planning; staff development; and occupational health and safety.
Note: Credit will be granted for only one of ADMN 431A, ADMN 431, ADMN 447, ADMN 531.

ADMN 431B Units: 1.5
Labour Relations Negotiations
Negotiation skills of successful negotiators, conflict management styles, goals and principles of positional and interest-based negotiation, labour relations climate; bargaining in responding to human resource issues such as equity and diversity, compensation, workplace safety and health, benefits, and employee pensions. Labour relations issues include: negotiating compensation issues; discipline and grievance, and developing a collective agreement. Includes group participation in negotiating a workplace issue and involvement in a labour-management simulation.
Note: Credit will be granted for only one of ADMN 431B, ADMN 431.

ADMN 437 Units: 1.5
Program Evaluation and Performance Measurement
Intensive introduction to organizational, methodological and professional issues involved in evaluating programs and measuring performance in public and non-profit organizations. Offers a practical understanding of the evaluation process, including identification of key evaluation questions, program logic, measurement, research design, and qualitative evaluation. Performance measurement is treated as a complementary set of skills for measuring and reporting program and organizational results. Includes modules on conceptual issues, implementation requirements and uses of performance measurement.
Note: Credit will be granted for only one of ADMN 437, ADMN 537.

ADMN 445 Units: 1.5
Urban and Regional Economics
Examines economic forces influencing settlement patterns, growth and other characteristics of towns, cities and regions. Course provides a theoretical and historical basis for analyzing and predicting how urban areas evolve and how public policies may affect patterns of growth and change. Topics include: regional economics, economic development, growth policy, urban land use patterns, how land and housing markets function, how land use regulation affects these markets, urban environmental problems, urban transportation, and emerging spatial patterns.
Note: Credit will be granted for only one of ADMN 445, ECON 312.

ADMN 446 Units: 1.5
Local Government Land Use Planning
Provides an overview of land use planning principles and regulations to local government administrators and staff, focusing on small and mid-sized communities. Topics include: history, regulatory framework in BC, rural and small town planning, growth management and regional planning, neighbourhood, local area and community planning; zoning, mainstreet, strip and commercial planning, residential planning, permits and other regulatory mechanisms; public information and participation; and environmental and heritage planning.
Note: Credit will be granted for only one of ADMN 446, ADMN 470 (if taken in the same topic).

ADMN 452 Units: 1.5
Local Government Law
Analysis of legislation and court decisions applicable to local governments in British Columbia, including the Community Charter. Designed to familiarize non-lawyers with local government activities and how to read case law and legislation.

ADMN 462 Units: 1.5
Also: POLI 462, ADMN 547
Intergovernmental Relations in Canada
Examines the nature of relations among federal, provincial, and municipal governments, and the impact of those relations on public policy. Includes discussion of topics such as the modalities of fiscal federalism and the concepts of executive federalism and intergovernmental governance.
Note: Credit will be granted for only one of ADMN 462, ADMN 470 (if taken in the same topic), POLI 462, POLI 490 (if taken in the same topic), ADMN 547.

ADMN 470 Units: 1.5-3.0
Contemporary Topics in Administration
A study of selected topics drawn from the current literature and practices in public administration or related fields.
Note: May be taken more than once for credit in different topics.

ADMN 477 Units: 1.5
Strategic Planning and Implementation
Examines strategic planning processes and how strategic goals can be implemented in public sector organizations. Strategic planning topics include stakeholder analysis; developing mission, value and vision statements; environmental scanning; transforming strategic plans into policies and programs; management tactics; and assessing organizational performance. Implementation topics include: deploying resources, quality control, strategic communication, budgeting, team building; problem solving; progress assessment; completion; and evaluation.
Note: Credit will be granted for only one of ADMN 477, ADMN 412, ADMN 470 (if taken in the same topic), ADMN 577.

ADMN 478 Units: 1.5
Also: ADMN 578
European Union Urban Region Policies
Compares the main issues associated with the politics, policy analysis, and policy environment of European cities and urban regions with North American regions; considers ways in which the policy capacity of urban / regional government might be improved.
Note: Credit will be granted for only one of ADMN 478, ADMN 548 (if taken in the same topic), ADMN 578.

ADMN 479 Units: 1.5
Also: ADMN 579
European Border Region Policies
Introduces students to the various complexities of European Union (EU) public policy making in an increasingly borderless world, comparing EU policy and policy-making with the Canada-US and US-Mexican borders. Examines effects of intergovernmental and international relations on production of policies.
Note: Credit will be granted for only one of ADMN 479, ADMN 548 (if taken in the same topic), ADMN 579.

ADMN 490 Units: 1.5
Directed Studies
Directed reading and/or a research project under the supervision of a Faculty Member.
Prerequisite(s): Permission of the school.
### Art Education

#### Department of Curriculum and Instruction

**Faculty of Education**

Studio-based courses are normally subject to limited enrollment because of space and equipment needs. Courses offered by the Faculty of Education are also found under the following course codes: AE, ED-O, ED-P, EDCI, EPHE, IA, IED, IE, ME.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE 103A</td>
<td>Formerly part of AE 103 Introduction to Art Education I</td>
<td>1.5</td>
<td>3-0-0</td>
<td></td>
</tr>
<tr>
<td>AE 103B</td>
<td>Formerly part of AE 103 Introduction to Art Education II</td>
<td>1.5</td>
<td>3-0-0</td>
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<td>AE 200</td>
<td>Design</td>
<td>1.5</td>
<td>3-0-0</td>
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<td>AE 201</td>
<td>Image Development</td>
<td>1.5</td>
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<tr>
<td>AE 303A</td>
<td>Formerly part of AE 303 Introduction to Ceramics Wheel and Hand Techniques</td>
<td>1.5</td>
<td>3-0-0</td>
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<tr>
<td>AE 303B</td>
<td>Intermediate Ceramics Studio Explorations</td>
<td>1.5</td>
<td>3-0-0</td>
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<tr>
<td>AE 305</td>
<td>Drawing</td>
<td>1.5</td>
<td>3-1-0</td>
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<tr>
<td>AE 306</td>
<td>Painting</td>
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<td>3-1-0</td>
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<tr>
<td>AE 307</td>
<td>Printmaking</td>
<td>1.5</td>
<td>3-1-0</td>
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<tr>
<td>AE 308</td>
<td>Sculpture</td>
<td>1.5</td>
<td>3-1-0</td>
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<tr>
<td>AE 309</td>
<td>Introduction to Ceramic Hand Building Techniques</td>
<td>1.5</td>
<td>3-1-0</td>
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<tr>
<td>AE 310</td>
<td>Introduction to Applied Design</td>
<td>1.5</td>
<td>3-1-0</td>
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<tr>
<td>AE 311</td>
<td>Design Thinking</td>
<td>1.5</td>
<td>3-0-0</td>
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</tr>
</tbody>
</table>

**Notes:**

- Credit will be granted for only one of AE 103A, AE 103, AE 100, AE 101, AE 204, ED-A 701, EDCI 307, EDCI 307A, EDCI 307B, EDUC 307.
- Students planning to emphasize art in their degree program should register in this course.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AE 314</td>
<td>Introduction to Community Art Education</td>
<td>1.5</td>
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<td>AE 317</td>
<td>Responding to Art</td>
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<td>3-1-0</td>
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<td>AE 319</td>
<td>Photography</td>
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<td>3-0-0</td>
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<td>AE 322</td>
<td>Digital Arts</td>
<td>1.5</td>
<td>3-0-0</td>
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<tr>
<td>AE 401</td>
<td>Special Studies</td>
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<td>3-1-0</td>
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<tr>
<td>AE 402</td>
<td>Directed Studies in Specific Methodologies, Materials and Techniques in Art Education</td>
<td>1.5</td>
<td>3-1-0</td>
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</tr>
</tbody>
</table>

**Notes:**

- AE 316, AE 317 may be taken more than once for credit in different topics with permission of the department to a maximum of 6 units.

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**Note:** Credit will be granted for only one of AE 303A, AE 303.
AE 402A - AHVS 121

AE 402A  
Drawing  
Units: 1.5  
Notes:  
• Credit will be granted for only four of AE 402A, AE 402B, AE 402C, AE 402D, AE 402E, AE 402F, AE 402G, AE 402H.  
• The maximum number of units accepted for credit on the student’s degree program will be at the discretion of the department.  
Prerequisite(s): AE 305.

AE 402B  
Painting  
Units: 1.5  
Notes:  
• Credit will be granted for only four of AE 402B, AE 402A, AE 402C, AE 402D, AE 402E, AE 402F, AE 402G, AE 402H.  
• The maximum number of units accepted for credit on the student’s degree program will be at the discretion of the department.  
Prerequisite(s): AE 306.

AE 402C  
Printmaking  
Units: 1.5  
Notes:  
• Credit will be granted for only four of AE 402C, AE 402A, AE 402B, AE 402D, AE 402E, AE 402F, AE 402G, AE 402H.  
• The maximum number of units accepted for credit on the student’s degree program will be at the discretion of the department.  
Prerequisite(s): AE 307.

AE 402D  
Sculpture  
Units: 1.5  
Notes:  
• Credit will be granted for only four of AE 402D, AE 402A, AE 402B, AE 402C, AE 402E, AE 402F, AE 402G, AE 402H.  
• The maximum number of units accepted for credit on the student’s degree program will be at the discretion of the department.  
Prerequisite(s): AE 308.

AE 402E  
Applied Design  
Units: 1.5  
Notes:  
• Credit will be granted for only four of AE 402E, AE 402A, AE 402B, AE 402C, AE 402D, AE 402F, AE 402G, AE 402H.  
• The maximum number of units accepted for credit on the student’s degree program will be at the discretion of the department.  
Prerequisite(s): AE 310.

AE 402F  
Photography  
Units: 1.5  
Notes:  
• Credit will be granted for only four of AE 402F, AE 402A, AE 402B, AE 402C, AE 402D, AE 402E, AE 402G, AE 402H.  
• The maximum number of units accepted for credit on the student’s degree program will be at the discretion of the department.  
Prerequisite(s): AE 319.

AE 402G  
Reasoned Criticism  
Units: 1.5  
Notes:  
• Credit will be granted for only four of AE 402G, AE 402A, AE 402B, AE 402C, AE 402D, AE 402E, AE 402F, AE 402H.  
• The maximum number of units accepted for credit on the student’s degree program will be at the discretion of the department.  
Prerequisite(s): AE 316 or AE 317.

AE 402H  
Ceramics  
Units: 1.5  
Notes:  
• Credit will be granted for only four of AE 402H, AE 402A, AE 402B, AE 402C, AE 402D, AE 402E, AE 402F, AE 402G.  
• The maximum number of units accepted for credit on the student’s degree program will be at the discretion of the department.  
Prerequisite(s): AE 303A or AE 309.

AE 410  
Visual Inquiry as Research  
Units: 1.5  
Hours: 3-0-0  
Notes:  
Study of visual inquiry as a research and learning method by combining analysis of theory with specific studio exercises. Students develop an understanding of visual inquiry in school and community in relation to other qualitative research methodologies as well as the role of visual inquiry for artists in art education as well as education generally.

AE 422  
Advanced Digital Arts  
Units: 1.5  
Hours: 3-1-0  
Notes:  
An advanced exploration of digital media production using graphics, animation, 3D modelling, audio, video, and website construction. Students will choose individual media projects related to areas of interest and construct them using standard media software tools and professional models of project management. Students will also have the opportunity to explore advanced industry-based software programs. Emphasizes advanced digital media theory and practice within creative, educational, and commercial environments.  
Credit will be granted for only one of AE 422, AE 402J.  
Prerequisite(s): AE 322.

AGEI 472  
Healthy Ageing  
Units: 1.5  
Notes:  
Adopting a life-course perspective, this course will explore the determinants of good health in old age. Those determinants range from biology to the urban environment, from early childhood experience to the availability of supportive services in the community, from education and health literacy to clinical prevention and self-care. Policies and programs from Canada and around the world that support healthy ageing will be examined.

Chronic Disease and Ageing  
Notes:  
Chronic diseases are very prevalent among the elderly, and their management has a major influence on the health, functionality and quality of life of older people. The growing body of evidence and experience in the delivery of high quality, safe, effective care will be examined and the design of systems that encourage and support high quality care will be explored. The role of chronic disease self-management and social support networks will be an important focus.

AHVS  
Art History and Visual Studies  
School of Public Health and Social Policy  
Faculty of Fine Arts  
Department of Art History and Visual Studies  
Courses numbered 200 generally consist of introductory level surveys of broad, thematic areas within Art History and Visual Studies. Courses numbered 300 (not normally recommended for first-year students) are usually lecture courses covering a particular region or time period, with a more extensive research requirement for the student. Courses at the 400 level generally involve an in-depth examination of a specific body of material, and assume a certain level of intellectual sophistication and commitment on the part of the student.

First-Year Seminar on Art, Images, Experience  
Credit will be granted for only one of AHVS 120, HA 120.

Exploring World Art  
Credit will be granted for only one of AHVS 121, HA 121.
AHVS 200  Units: 1.5 or 3.0  Hours: 3-0-0  
Formerly: HA 200  
**Artists’ Materials and Techniques**  
An examination of the techniques used by artists throughout history, in western and nonwestern cultures. The development of art technology is considered in its historical and social contexts. Period or area of emphasis may vary.  
**Note:** Credit will be granted for only one of AHVS 200, HA 200, HA 310.

AHVS 202  Units: 1.5  Hours: 3-0-0  
Formerly: HA 202  
**Confronting the Object**  
Provides first-hand experience working with objects in collections. Emphasizes the recovery of the historical context and the ways in which artifacts are presented in museums and other cultural institutions.  
**Note:** Credit will be granted for only one of AHVS 202, HA 202.

AHVS 222  Units: 1.5  Hours: 3-0-0  
Formerly: HA 222  
**The Classical Tradition in Western Art**  
An introduction to the influence of Greco-Roman artistic traditions on subsequent periods of European civilization. The classical inheritance in terms of both style and iconography will be examined in a variety of selected monuments from the Middle Ages through to the 20th century.  
**Note:** Credit will be granted for only one of AHVS 222, HA 222.

AHVS 223  Units: 1.5 or 3.0  Hours: 3-0-0  
Formerly: HA 223  
**Introduction to Western Architecture**  
An introduction to the aims and methods of architectural history using case-studies of monuments from the history of Western architecture from archaic Greece to the present. Issues considered can include: changing patterns of patronage, shifts in building-types, features, and structural systems; and influential theories of design.  
**Note:** Credit will be granted for only one of AHVS 223, HA 223.

AHVS 230  Units: 1.5  Hours: 3-0-0  
Formerly: HA 230  
**Monuments of South and Southeast Asia**  
An introduction to Indigoenous, Hindu, Buddhist and Islamic world views through the study of religious monuments and ideas in South and Southeast Asia, including philosophical and religious principles underlying architecture, painting, sculpture and textiles. Emphasizes the learning of analytical and writing skills essential to these areas of Asian art history.  
**Note:** Credit will be granted for only one of AHVS 230, HA 230.

AHVS 232  Units: 1.5  Hours: 3-0-0  
Formerly: HA 232  
**Sacred Form in South and Southeast Asian Art**  
An introduction to select forms and symbols in Buddhist and Hindu art. Focus may include figurative, geometric, informal and formal arts, in lasting and ephemeral materials. Provides students with the basic skills to describe and analyze arts of the region created in religious or spiritual contexts.  
**Note:** Credit will be granted for only one of AHVS 232, HA 232.

AHVS 234  Units: 1.5  Hours: 3-0-0  
Formerly: HA 234  
**Encountering Renaissance Art**  
An examination of key works of art and architecture by major creative minds in Europe during the Renaissance (1400-1550), such as Donatello, Alberti, Leonardo, Michelangelo, Bosch and Sophonibas Anguissola.  
**Note:** Credit will be granted for only one of AHVS 234, HA 234.

AHVS 241  Units: 1.5  Hours: 3-0-0  
**The Image of the Artist**  
Investigates how artists and cultures create artistic identities. Topics may include the social and economic status of artists, theories of creativity and genius, the art market, guilds and academies, self-portraits, artists’ houses and tombs, cross-cultural understandings of creators and the role of social media, video and the internet in the creation of artistic identity.  
**Note:** Credit will be granted for only one of AHVS 241, HA 241.

AHVS 251  Units: 1.5  Hours: 3-0-0  
Formerly: HA 251  
**Introduction to the Arts of Islam**  
An introductory survey of the art and architecture of Islam around the world, beginning with the rise of Islam and continuing to the present.  
**Note:** Credit will be granted for only one of AHVS 251, HA 251, HIST 251.

AHVS 260  Units: 1.5 or 3.0  Hours: 3-0-0  
Formerly: HA 260  
**Modern and Contemporary Art Icons**  
An in-depth survey of the role and career of modern or contemporary art icons such as Joseph Beuys, Barbara Hepworth, Andy Warhol, Georgia O’Keeffe, Pablo Picasso, Vavara Stepanova or Marina Abramovic. Studied artists vary.  
**Notes:**  
- Credit will be granted for only one of AHVS 260, HA 260.  
- May be taken more than once for credit in different topics to a maximum of 3 units.

AHVS 264  Units: 1.5  Hours: 3-0-0  
Formerly: HA 264  
**Art History and the Lens**  
A survey of the role of images in various social and cultural venues. Case studies may examine the relationships between photographic images and exhibitions, publications, film, artwork, and other media within the context of different cultures and social practices.  
**Note:** Credit will be granted for only one of AHVS 264, HA 264.

AHVS 268  Units: 1.5 or 3.0  Hours: 3-0-0  
Formerly: HA 268  
**Introduction to Canadian Art and Architecture**  
An introductory survey of principal periods, media, practitioners, and movements in the history of non-native Canadian art and architecture from first settlement to today. The arts of English and French Canada will be considered, and the political, social and cultural settings in which they have been made will be explored.  
**Notes:**  
- Credit will be granted for only one of AHVS 268, HA 268.  
- Several courses may be taught at the Art Gallery of Greater Victoria.

AHVS 284  Units: 1.5  Hours: 3-0-0  
Formerly: HA 284, part of HA 382A  
**Indigenous Arts, Local Themes and Global Challenges**  
Explores values and philosophies conveyed by Indigenous arts of the Northwest Coast. Examines how older and contemporary arts reflect human connections with the environment, roles of arts and artists in 21st-century events and activism, arts and the Internet, diversity of cultural expressions and relevance to global challenges such as climate change.  
**Note:** Credit will be granted for only one of AHVS 284, HA 284, HA 382A (if taken prior to Sep-Dec 1999).

AHVS 292  Units: 1.5 or 3.0  Hours: 3-0-0  
Formerly: HA 292  
**Selected Themes in Art History and Visual Studies**  
An introduction to a selected theme or area of art-historical study that is not covered in other AHVS courses at this level. Content may vary from year to year.  
**Notes:**  
- Credit will be granted for only one of AHVS 292, HA 292 (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

AHVS 295A  Units: 1.5  Hours: 3-0-1  
**Introduction to Film Analysis**  
An investigation of film culture and its relationship to social and historical contexts. Focuses on active readings of cinematic texts, searching for the possible meanings of individual shots, sequences and narrative structures. Involves a three hour lecture or screening and a one hour tutorial a week.  
**Note:** Credit will be granted for only one of AHVS 295A, HA 295A, HA 295.

AHVS 295B  Units: 1.5  Hours: 3-0-1  
Formerly: HA 295, HA 295B  
**Introduction to Film Studies**  
An investigation of film culture and its relationship to social and historical contexts. Considers key issues in film scholarship, critical strategies and theoretical concepts. Involves a three hour lecture or screening and a one hour tutorial a week.  
**Note:** Credit will be granted for only one of AHVS 295B, HA 295, HA 295B.

AHVS 300A  Units: 1.5  Hours: 3-0-0  
Formerly: HA 300A  
**Masterpieces of Art and Architecture**  
An analysis of selected works of art central to the traditions of world art.  
**Note:** Credit will be granted for only one of AHVS 300A, HA 300A.

AHVS 300B  Units: 1.5  Hours: 3-0-0  
Fakes, Forgeries and Fraud  
Case studies examine art crimes in different regions and periods. Introduces historical, legal and forensic issues related to authentication and object recovery.
AHVS 300C  
Units: 1.5  
Hours: 3-0-0  
The Destruction of Art  
Examines the intentional damaging of art and architecture in times of conflict. Central themes include iconoclasm, political and religious censorship, looting and vandalism. Case studies cover different regions and periods while focusing on the motivations of groups and individuals.

AHVS 310A  
Units: 1.5  
Hours: 3-0-0  
Formerly: HA 310A  
Making Art History  
Experiential research into objects and applied arts. Students will engage with objects to develop technical and social insight into their histories and cultural values. Topics will vary.

Notes:  
• Credit will be granted for only one of AHVS 310A, HA 310A (if taken in the same topic).  
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

AHVS 310B  
Units: 1.5  
Hours: 3-0-0  
Formerly: HA 310B  
Presenting Digital Art History  
Explores the key shifts and art historical implications of the digital revolution. Students will also investigate the graphic components of their identities as emerging scholars and digital citizens, developing skills in industry-standard software and applications for effective and compelling presentations.

Note: Credit will be granted for only one of AHVS 310B, HA 310B.

AHVS 310C  
Units: 1.5  
Hours: 1-2-0  
Formerly: HA 310C  
Digital Tools for Art History and Visual Studies  
In this lab-based course students use digital tools in relation to art history and visual studies. They will explore a variety of new technologies to approach, shape and develop research projects. Topics include: image mark-up and augmentation, digital curation, information visualization and mapping, contemporary and historical environment creation.

Notes:  
• Credit will be granted for only one of AHVS 310C, HA 310C.  
• No programming or coding experience is required.

AHVS 310D  
Units: 1.5  
Hours: 3-0-0  
Formerly: HA 310D  
Environmental Art  
A survey of examples of Environmental Art to the present day, beginning with the 1960s Land Art movement. Topics may include: earthworks, environmental art, performances and actions by artists ranging from Robert Smithson, Walter de Maria, Ana Mendieta, Andy Goldsworthy, Alice Aycock.

Note: Credit will be granted for only one of AHVS 310D, HA 310D.

AHVS 310E  
Units: 1.5  
Hours: 3-0-0  
Formerly: HA 310E  
Topics in Craft and Communities  
A survey of the major craft movements in British Columbia from the late nineteenth century to the present focusing on the changing views of craft within various contexts such as the Arts and Crafts Movement, the Canadian Craft Guild, the Canada Council for the Arts, indigenous rights and contemporary DIY political action.

Notes:  
• Credit will be granted for only one of AHVS 310E, HA 310E (if taken in the same topic).  
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

AHVS 310F  
Units: 1.5  
Hours: 3-0-0  
Formerly: HA 310F  
Modern and Contemporary Design  
Focuses on the cultural roles of design in finding creative solutions to basic human needs, such as shelter, clothing, useful objects, visual communications, transportation and built environments in a variety of social contexts.

Note: Credit will be granted for only one of AHVS 310F, HA 310F.

AHVS 311A  
Units: 1.5  
Hours: 3-0-0  
Formerly: HA 311A  
Visual Intelligence  
Introduces new research in the field of visual intelligence. Explores Leonardo da Vinci and other artists’ methods of open-ended inquiry and effective problem solving, through observation, visual analysis and application. Students engage in self-generated research questions, applying historical and contemporary tools from global artmaking to their learning.

Note: Credit will be granted for only one of AHVS 311A, HA 311A.

AHVS 311B  
Units: 1.5  
Hours: 3-0-0  
Formerly: HA 311B  
Looking and the History of Perception  
A thematic introduction to issues of visuality, brain and perceptual functioning in past and present societies around the world. Content may include, the perception of space, motion and colour; pictures, symbols and signs; images and abstract thinking; art and the imitation of nature; tradition and its impact on seeing; new insights from the field of neuroanthropology.

Note: Credit will be granted for only one of AHVS 311B, HA 311B.

AHVS 311C  
Units: 1.5  
Hours: 3-0-0  
Formerly: HA 311C  
The Sacred Gaze  
An exploration of ways of seeing that invest images, buildings, people and places with spiritual significance. Investigates key aspects of vision and imagery in a variety of religious traditions.

Note: Credit will be granted for only one of AHVS 311C, HA 311C.

AHVS 311D  
Units: 1.5  
Hours: 3-0-0  
Artists and Art History in Popular Culture  
Examines the portrayal of art movements, artists, art works, art historians, and art critics in popular media such as radio, film, television or comics.

AHVS 311E  
Units: 1.5  
Hours: 3-0-0  
History of Video Games and Interactive Media  
Explores the cultural role of video games as an interactive visual medium. Classes will focus on influential games and designers, new genres and technological innovations, the integration of visual art, sound, narrative and interactive gameplay, questions of representation, race, gender, games as art, representations of art and artists, and other themes.

Note: Credit will be granted for only one of AHVS 311E, TS 320 (if taken in the same topic).

AHVS 311F  
Units: 1.5  
Hours: 3-0-0  
Horror Video Games  
An inquiry into the nature of fear and the grotesque in digital games as an interactive visual medium. Examines a variety of mainstream and independent digital games for their use of horror tropes. Employs various theoretical perspectives to investigate relevant digital games.

AHVS 312  
Units: 1.5  
Hours: 3-0-0  
Formerly: HA 312  
Gender, Identity and Film  
Examines representations of women and by women, in a variety of film forms (experimental, documentary, narrative) and within a range of historical periods. Emphasis is placed on feminist theories of representation, visual pleasure, spectatorship and subjectivity and on analyses of key films.

Note: Credit will be granted for only one of AHVS 312, HA 312.

AHVS 321  
Units: 1.5  
Hours: 3-0-0  
Formerly: HA 321  
Late Antique and Early Christian Art  
An introductory survey of the art and architecture of the Mediterranean world from the origins of Christian art in the third century CE to the onset of Iconoclasm in the eighth century. In addition to a detailed examination of surviving monuments and art objects, an emphasis will be placed on the sources of Christian iconography and the relationship between art, theology and liturgy.

Note: Credit will be granted for only one of AHVS 321, HA 321.

AHVS 323  
Units: 1.5  
Hours: 3-0-0  
Formerly: HA 323  
Byzantine Art  
An introductory survey of the art and architecture of the Byzantine empire and its culturally dependent areas from the period of Iconoclasm through to the fall of Constantinople in 1453 and beyond. The emphasis will be on an examination of surviving monuments in Greece, Turkey, southern Italy, the Balkans and Russia.

Note: Credit will be granted for only one of AHVS 323, HA 323.

AHVS 324  
Units: 1.5  
Hours: 3-0-0  
Formerly: HA 324  
Ancient and Medieval Jewish Art  
An introductory survey of the visual and material culture of Judaism in Israel and among the communities of the Diaspora from the first century CE to the 16th century CE. Major topics of interest are: the architectural evolution of the synagogue; changing attitudes to the role of figural art in a religious context; the arts of the book; and the artistic interactions with the visual traditions of Christian and Muslim communities.

Note: Credit will be granted for only one of AHVS 324, HA 324.
### AHVS 326 - Early Medieval Art

Formerly: HA 326  
**Units:** 1.5  
**Hours:** 3-0-0

An introductory survey of the arts and architecture of western Europe in the period c. 600-1150 CE. Topics to be considered will include Anglo-Saxon, Carolingian, Ottonian, and Romanesque art.  
**Note:** Credit will be granted for only one of AHVS 326, HA 326.

### AHVS 328 - Gothic Art and Architecture

Formerly: HA 328  
**Units:** 1.5  
**Hours:** 3-0-0

An introductory survey of the art and architecture of western Europe from the reconstructions of St. Denis c. 1140 to the beginnings of Renaissance art in Florence c. 1400. Focuses primarily on architecture in northern Europe and on painting in Italy, with a concentration on artists from the cities of Florence, Rome and Siena.  
**Note:** Credit will be granted for only one of AHVS 328, HA 328.

### AHVS 330A - Early Arts of South Asia

Formerly: HA 330A  
**Units:** 1.5  
**Hours:** 3-0-0

Case studies in the arts in South Asia from the Indus Valley Civilization to the 11th century. The development of Hindu and Buddhist art, architecture and patronage is examined in relation to historical, philosophical and religious backgrounds. Selections from treatises on art and aesthetics are read in translation.  
**Notes:**  
• Credit will be granted for only one of AHVS 330A, HA 330, HA 330A.  
• Normally to be offered in alternate years with AHVS 333A, AHVS 333B.

### AHVS 330B - Later Arts of South Asia

Formerly: HA 330B  
**Units:** 1.5  
**Hours:** 3-0-0

A survey of the arts of South Asia, including the Himalayan region and Tibet, from the eighth century to the 20th. Emphasis will be on regional variations in Buddhist and Hindu art, the introduction of new ideas, art forms and styles with the establishment of Islamic rule, and the role of colonialism and nationalism in the formation of the region’s modern visual culture.  
**Note:** Credit will be granted for only one of AHVS 330B, HA 330, HA 330B.

### AHVS 330C - The Body in Indian Art

Formerly: HA 330C  
**Units:** 1.5  
**Hours:** 3-0-0

Explores the representation of the human body ranging from the erotic to the spiritual in Hindu and Buddhist art.  
**Note:** Credit will be granted for only one of AHVS 330C, HA 330C, HA 392 (if taken in the same topic).

### AHVS 332A - Bollywood and Popular Visual Culture in India, 1950s onwards

Formerly: HA 332A  
**Units:** 1.5  
**Hours:** 3-0-0

Examines popular Indian visual culture through the media of photography and film. Against a backdrop of Indian classical, folk, modern and contemporary, rural and urban art histories, select Bollywood films from the 1950s to the present are examined in class lectures, film screenings and readings. Styles featured range from historical, social realist and nationalist to stylized, idealist and moral narratives.  
**Note:** Credit will be granted for only one of AHVS 332A, HA 332A, HA 337 (if taken in the same topic).

### AHVS 332B - Bollywood Global and Popular Visual Culture, India and Diaspora, 1990s onwards

Formerly: HA 332B  
**Units:** 1.5  
**Hours:** 3-0-0

An examination of popular visual culture of India from classical, modern and contemporary art-historical and cultural perspectives. Themes of gender, identity, postcoloniality and national/global dynamics are addressed through screenings of select Bollywood films from the 1990s to today. Films made in India alternate with films which move into diasporic spaces in the UK, Canada and USA.  
**Note:** Credit will be granted for only one of AHVS 332B, HA 332B, HA 337 (if taken in the same topic).

### AHVS 333A - Early Arts of Southeast Asia

Formerly: HA 333A  
**Units:** 1.5  
**Hours:** 3-0-0

A survey of the arts of Southeast Asia, starting with prehistoric and contemporary tribal/indigenous cultures, up to the arrival of Islam. Discussion will include the majority of countries in the region, with emphasis on Indonesia. Monumental and personal arts relating to Hindu, Buddhist and Primal religious communities will be discussed with attention to gender and historiography. Indigenous texts and film will be used as source materials and basis for discussion.  
**Notes:**  
• Credit will be granted for only one of AHVS 333A, HA 333, HA 333A.  
• Normally to be offered in alternate years with AHVS 330A, AHVS 330B.

### AHVS 333B - Later Arts of Southeast Asia

Formerly: HA 333B  
**Units:** 1.5  
**Hours:** 3-0-0

Case studies in the arts of Southeast Asia, from the arrival of Islam through the colonial and up through the modern period. Local definitions of art, the role of the artist in society and issues of patronage will be discussed against a background of continuity and change. Indigenous texts and film will be used as sources.  
**Note:** Credit will be granted for only one of AHVS 333B, HA 333, HA 333B.

### AHVS 337 - Special Topics in Contemporary Asian Art

Formerly: HA 337  
**Units:** 1.5  
**Hours:** 3-0-0

An examination of themes and issues in contemporary Asian art through case-studies in select national, regional and/or global contexts. Analyzes artists’ careers, art institutions and art discourses, including the arrival of contemporary Asian art into western art historical consciousness.  
**Notes:**  
• Credit will be granted for only one of AHVS 337, HA 337 (if taken in the same topic).  
• May be taken more than once for credit in different topics.

### AHVS 339 - The Global Renaissance

Formerly: HA 339  
**Units:** 1.5  
**Hours:** 3-0-0

Thematic investigation of artistic exchange between Europe, Asia, and the Americas during the 16th c. in the context of emerging globalism and nation states.  
**Note:** Credit will be granted for only one of AHVS 339, HA 339, HA 341B.

### AHVS 341A - Art in Renaissance Florence

Formerly: HA 341A  
**Units:** 1.5  
**Hours:** 3-0-0

Examines the birth of Renaissance art and architecture in Florence. Works of art and artists’ careers will be examined within the context of themes such as: patronage; materials and methods; religious and intellectual climate. It will explore the city’s unique sense of identity and destiny.  
**Note:** Credit will be granted for only one of AHVS 341A, HA 341, HA 341A.

### AHVS 341C - Michelangelo and Leonardo

Formerly: HA 341C  
**Units:** 1.5  
**Hours:** 3-0-0

An investigation of the art and times of the two Renaissance artists. Topics will include the creative process, the role of drawings, artist-patron relations, materials and methods of their art production and biographical constructions.  
**Note:** Credit will be granted for only one of AHVS 341C, HA 341C.

### AHVS 342A - Baroque Art in Italy 1550-1700

Formerly: HA 342A  
**Units:** 1.5  
**Hours:** 3-0-0

Thematic investigation of painting, sculpture, and architecture in Italy during the Baroque, 1550-1700. Artists to be considered include Caravaggio, The Carracci, Bernini, Artemisia Gentileschi, Pietro da Cortona and Borromini.  
**Note:** Credit will be granted for only one of AHVS 342A, HA 342, HA 342A.
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| AHVS 342B  | 1.5   | 3-0-0 | Formerly: HA 342B
|             |       |       | Experiencing Baroque Painting
|             |       |       | Investigation of 17th c. painting in Italy, England, Holland, Flanders, and Spain in the context of international exchange and exploration. Explorers may include Caravaggio, Artemisia Gentileschi, Rembrandt, Rubens, Vermeer, Judith Leyster, Anthony van Dyck, Ribera and Velasquez. Note: Credit will be granted for only one of AHVS 342B, HA 342, HA 342B. |
| AHVS 343A  | 1.5   | 3-0-0 | Formerly: HA 343A
|             |       |       | Art in Venice 1500-1800
|             |       |       | Thematic investigation of art and architecture in Venice and the Veneto from 1500-1800. Content may include artistic identity, patronage, the market, villa culture, and art for the domestic interior. Note: Credit will be granted for only one of AHVS 343A, HA 343, HA 343A. |
| AHVS 343B  | 1.5   | 3-0-0 | Formerly: HA 343B
|             |       |       | The 18th Century in Northern Europe
|             |       |       | A consideration of art and architecture in northern Europe, especially France and Britain, during the 18th century. Emphasis will be placed upon examining works of art within the contexts of political ideologies, social roles, and theoretical debate. Note: Credit will be granted for only one of AHVS 343B, HA 343, HA 343B. |
| AHVS 344A  | 1.5   | 3-0-0 | Formerly: HA 344A
|             |       |       | The Art of Travel 1200-1600
|             |       |       | Uses art, architecture and material culture to analyze medieval and early Modern travel experiences. Examines topics concerned with travel, such as spiritual quest, warfare, adventure and social display. |
| AHVS 344B  | 1.5   | 3-0-0 | Formerly: HA 344B
|             |       |       | The Art of Travel 1600 to Present Day
|             |       |       | Uses art, architecture and material culture to analyze topics concerned with travel, such as trade, exploration, colonization and cultural tourism. |
| AHVS 345   | 1.5   | 3-0-0 | Formerly: HA 345
|             |       |       | People and Things in the Early Modern Domestic Interior
|             |       |       | A critical investigation of the material culture of the home in Early Modern Europe (1400-1800) in the context of world trade and exploration. Examines the means by which household objects shape the dynamic social processes of cultural exchange and identity formation at the local, regional, and global level. Media to be considered may include jewelry, textiles, clothing, ceramics, furniture, prints, maps, portraits, paintings and sculptures. Note: Credit will be granted for only one of AHVS 345, HA 345. |
| AHVS 346C  | 1.5   | 3-0-0 | Formerly: HA 346C
|             |       |       | Visual Culture in Jane Austen's World
|             |       |       | Examines the visual culture of late Georgian and Regency England (c. 1760-1837), including painting, architecture, gardens, fashion, textile production, print culture, spectacle, professional and amateur arts. Considers the broader global context and assesses modern film and video interpretations of the period. Note: Credit will be granted for only one of AHVS 346C, HA 346C. |
| AHVS 348   | 1.5   | 3-0-0 | Formerly: HA 348
|             |       |       | Introduction to Islamic Archaeology
|             |       |       | An introduction to the archaeological investigation of the Islamic world. Covering a period from the seventh to the 19th century, the course employs case studies to examine urban life, religious identity, agriculture, trade and communications in the Middle East, North Africa, and the Iberian Peninsula. Note: Credit will be granted for only one of AHVS 348, HA 348. |
| AHVS 349   | 1.5   | 3-0-0 | Formerly: HA 349
|             |       |       | Islam and the West: Artistic Contacts, 1500-1900
|             |       |       | An examination of the different modes of artistic contact between the Islamic world and the West from the 16th to the end of the 19th century. The developing artistic dialogue will be examined in the context of the political and cultural history of this period. Traces the changing representations of the Islamic world in European painting and book illustration; the growth of Orientalist aesthetics in Europe; and the introduction of Western themes into the arts of Turkey, Syria, Iran and India. Note: Credit will be granted for only one of AHVS 349, HA 349. |
| AHVS 351A  | 1.5   | 3-0-0 | Formerly: HA 351A
|             |       |       | Painting in Medieval Islam
|             |       |       | A survey of painting in Islam from the 11th to the 15th century. Concentrates on the arts of the book. Note: Credit will be granted for only one of AHVS 351A, HA 351A. |
| AHVS 351B  | 1.5   | 3-0-0 | Formerly: HA 351B
|             |       |       | Painting in Iran
|             |       |       | A survey of painting in Iran from the 15th to the 19th century. The course concentrates on the arts of the book. Note: Credit will be granted for only one of AHVS 351B, HA 351B. |
| AHVS 352   | 1.5   | 3-0-0 | Formerly: HA 352
|             |       |       | The Genesis of Islamic Art and Architecture
|             |       |       | An examination of the background, origins, and evolution of early Islamic art and architecture from the seventh century rise of Islam to the end of the ninth century. Investigates the fundamentals of Islam as a faith, Islam's relationship to the pre-Islamic past and the theoretical problem of creating a new visual culture to serve a new religion and society. Note: Credit will be granted for only one of AHVS 352, HA 351, HA 352. |
| AHVS 354   | 1.5   | 3-0-0 | Formerly: HA 354
|             |       |       | Medieval Islamic Art and Architecture
|             |       |       | The high medieval art and architecture of Islam from the 10th century to the Mongol invasions of the mid-13th century. Focuses on the medieval ideal of Islamic unity and the historic fragmentation of Islam into different, often opposed, regional and cultural entities. Major themes will be the emergence of Turkish peoples as the dominant political rulers of the Near East and the impact of Latin and Byzantine Christendom on Islamic visual culture. Note: Credit will be granted for only one of AHVS 354, HA 351, HA 354. |
| AHVS 355A  | 1.5   | 3-0-0 | Formerly: HA 355A
|             |       |       | Old Kingdom Arts of Egypt
|             |       |       | A survey of ancient Egyptian visual culture from its prehistoric roots to c. 1650 BCE, with a focus on the first great era of pyramid construction. Note: Credit will be granted for only one of AHVS 355A, HA 355, HA 355A, HA 392 (if taken in the same topic). |
| AHVS 355B  | 1.5   | 3-0-0 | Formerly: HA 355B
|             |       |       | New Kingdom Arts of Egypt
|             |       |       | A survey of ancient Egyptian visual culture during the high empire period, c. 1550-1070 BCE. Subsequent eras may also be considered. Note: Credit will be granted for only one of AHVS 355B, HA 355, HA 355B, HA 392 (if taken in the same topic). |
| AHVS 357   | 1.5   | 3-0-0 | Formerly: HA 357
|             |       |       | Arts of Mediterranean Islam, 13th-20th Centuries
|             |       |       | The art and architecture of Islam in the lands bordering the Mediterranean (Spain, Palestine, Syria and Turkey), from the mid-13th to the 20th century. Major areas of emphasis will be the Nasrid dynasty of Spain, the Mamluk dynasty of Egypt, and the Ottoman sultanate of Turkey. Note: Credit will be granted for only one of AHVS 357, HA 353, HA 357. |
| AHVS 358   | 1.5   | 3-0-0 | Formerly: HA 358
|             |       |       | Art of the Sultans and Emperors of India
|             |       |       | An introduction to art and architecture of the Islamic lands and peoples of South and Central Asia from the 12th to the 19th century. Content may include the arts of Mughal India, the Taj Mahal, the role of the British Raj in art and architecture. Note: Credit will be granted for only one of AHVS 358, HA 353, HA 358. |
| AHVS 359   | 1.5   | 3-0-0 | Formerly: HA 359
|             |       |       | Islamic Arts from the Mongol Conquests to Modernity
|             |       |       | Examination of the art and architecture of major dynasties, such as the Ilkhans, Timurids, and Safavids, from the impact of the Mongol conquests in 1221 to the 19th century. Note: Credit will be granted for only one of AHVS 359, HA 359. |
AHVS 362A - AHVS 381B

COURSE LISTINGS

AHVS 362A - Units: 1.5 - Hours: 3-0-0 - Formerly: HA 362A
Modern Art in Europe and North America, 1900 to 1945
Beginning with a brief examination of the European avant-garde in the late 19th century, the course analyzes in depth such 20th century movements as Cubism, Expressionism, Futurism, Constructivism, Social Realism and Surrealism. The European impact on modernist practices in America is also investigated.

Note: Credit will be granted for only one of AHVS 362A, HA 362A.

AHVS 362B - Units: 1.5 - Hours: 3-0-0 - Formerly: HA 362B
Art in Europe and North America, 1945 to present
An examination of directions taken in postwar art. Emphasis on the demise of the Modernist movement and the emergence of Postmodernism. Singled out for investigation will be such areas as Abstract Expressionism, Minimalism, Pop Art, conceptual and performance art, environmental art and photo-based practices.

Note: Credit will be granted for only one of AHVS 362B, HA 362B.

AHVS 362C - Units: 1.5 - Hours: 3-0-0
Critical Issues in Contemporary Art
Examines selected examples of contemporary art in the context of critical debates, art institutions, the art market and activism. Geographic areas of focus may vary.

AHVS 363 - Units: 1.5 - Hours: 3-0-0 - Formerly: HA 363
The Cinema and Modern Art Movements
An examination of the history of film in relationship to the major art movements of the 20th century. Students will view and analyze films by such directors as Lang, Eisenstein, Bunuel, Brakhage, and Snow; these films will be discussed in the light of their connection to such influential modern art movements as German Expressionism, Russian Constructivism, Surrealism, Abstract Expressionism and Conceptual Art.

Note: Credit will be granted for only one of AHVS 363, HA 363.

AHVS 364 - Units: 1.5 - Hours: 3-0-0 - Formerly: HA 364
Documentary Film
An intensive study of film as document of time, place and action. Influence of social and artistic context will be considered. Attention will be largely directed to Canadian documentary films, a leader in this genre today. Films studied may include works by Flaherty, Grierson, Lorentz, Riefenstahl, Wiisem, National Film Board.

Note: Credit will be granted for only one of AHVS 364, HA 364.

AHVS 365 - Units: 1.5 - Hours: 3-0-0 - Formerly: HA 365
Experimental Film
Film as art. Investigates a wide variety of experimental forms and covers a range of historical periods and contexts. Emphasis will be placed on analyses of key films and on theories of films developed by both artists and critics. Particular attention is paid to the Canadian experimental tradition.

Note: Credit will be granted for only one of AHVS 365, HA 365.

AHVS 367 - Units: 1.5 - Hours: 2-0-1 - Formerly: HA 367
History in Cinema
Cinema as a product of time and place. Emphasis is placed on the relationship between particular film movements and genres and their historical contexts and on theories about the role and function of film in society.

Note: Credit will be granted for only one of AHVS 367, HA 367.

AHVS 368B - Units: 1.5 - Hours: 3-0-0 - Formerly: HA 368B
Modern and Contemporary Canadian Art
A history of the visual arts (painting, sculpture, installation and performance art) from Tom Thomson and the Group of Seven to the present.

Note: Credit will be granted for only one of AHVS 368B, HA 368, HA 368B.

AHVS 369 - Units: 1.5 - Hours: 3-0-0 - Formerly: HA 369
History of Photography
An introductory survey of the history of photography from its invention in 1839 until the present. Topics to be addressed include the changing role of the photographer as scientist and artist, the relationship between photography and other visual arts, 19th-century travel photography, women photographers, and the various photographic processes which have been developed in the 150 year history of the medium.

Note: Credit will be granted for only one of AHVS 369, HA 369.

AHVS 370A - Units: 1.5 - Hours: 3-0-0 - Formerly: HA 370, HA 370A
Popular Film and Cultural Theory
A study of popular film and its social and political function. Special attention will be paid to mainstream films, especially Hollywood genre films, in the interest of exploring the ideological significance of popular film. An exploration of divergent views on the role of popular film within cultural theory will provide the context for the analysis of selected films.

Note: Credit will be granted for only one of AHVS 370A, HA 370, HA 370A, HA 392 (if taken in the same topic).

AHVS 370B - Units: 1.5 - Hours: 3-0-0 - Formerly: HA 370B
Hollywood Genres
An introduction to the study of Hollywood genres such as westerns, musicals, romantic comedies and science fiction films. Focuses on their stylistic characteristics, historical evolution, and social function. Attention is paid to the relationships among genres and to hybrid forms created when conventions are blended.

Note: Credit will be granted for only one of AHVS 370B, HA 370B, HA 392 (if taken in the same topic).

AHVS 370C - Units: 1.5 - Hours: 3-0-0 - Formerly: HA 370C
Horror Cinema
An exploration of the subgenres and concerns of the horror film. Focuses on various monsters (such as psycho-killers and zombies), as well as the terror generated by technology, scientific practices and mutating bodies. Theoretical perspectives are considered in the interest of investigating the contradictory functions of fear culture.

Note: Credit will be granted for only one of AHVS 370C, HA 370C, HA 392 (if taken in the same topic).

AHVS 370D - Units: 1.5 - Hours: 3-0-0 - Formerly: HA 370D
Canadian Film
An exploration of the history, diverse tendencies and key figures in Canadian Film. Includes developments in fiction, documentary and experimental films.

Note: Credit will be granted for only one of AHVS 370D, HA 370D.

AHVS 372A - Units: 1.5 - Hours: 3-0-0
Chinese Art and Architecture
Introductory survey from Neolithic times to the present. Topics include ritual bronze vessels of the earliest kingdoms, the Chinese transformation of Buddhism and its arts, imperial patronage of painting, the literati tradition of painting and calligraphy, and propagandistic art of the Cultural Revolution. Emphasizes the cultural contexts for Chinese visual culture.

Note: Credit will be granted for only one of AHVS 372A, HA 372.

AHVS 373A - Units: 1.5 - Hours: 3-0-0
Japanese Art and Architecture
An introductory survey to Japanese visual culture from Neolithic times to present. Topics include Shinto art and ritual, Buddhist art (including Zen), courtly arts, the tea ceremony, erotic prints of the “Floating World,” and contemporary art. Focuses on how Japanese artists adapt foreign cultural traditions.

Note: Credit will be granted for only one of AHVS 373A, HA 373, HA 374.

AHVS 3781A - Units: 1.5 - Hours: 3-0-0 - Formerly: HA 381A
Modernism and Modern Art of the Pacific Northwest
A survey of the arts of Alaska, British Columbia, Washington, and Oregon from the 19th century to 1945. Investigates the relationship between “art” and issues such as colonialism, travel and tourism, the potlatch, the prohibition of the potlatch, ethnography, immigration, moral improvement, the Great Depression and modernity.

Note: Credit will be granted for only one of AHVS 3781A, HA 381A.

AHVS 381B - Units: 1.5 - Hours: 3-0-0 - Formerly: HA 381B
Contemporary Art of the Pacific Northwest
A thematic examination of the arts of the Pacific Northwest from 1945 to the present. May include primitivism, the Northwest School, the Totemland Studio, modern architecture, public art, feminism, postmodernism, the Vancouver school of photography, commemorations of Japanese internment, environmentalism and indigeneity.

Note: Credit will be granted for only one of AHVS 381B, HA 381B.
### AHVS 381C - AHVS 398A

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| **AHVS 381C** | 1.5 | 3-0-0 | Contemporary Global Art  
Selected case studies drawn from the multiple modernities of the 20th and 21st centuries. Explores Asian, African, and Central and South American artists who respond to homegrown and imposed stimuli, and who are in dialogue with their Indigenous, Western modernist, post-modernist and other cultural traditions. **Note:** Credit will be granted for only one of AHVS 382A, HA 382, HA 382A. |
| **AHVS 382A** | 1.5 | 3-0-0 | Indigenous Arts of the Arctic and Subarctic  
An introduction to arts of the Indigenous peoples of the North American Arctic and Subarctic. Explores cultural contexts, relationships between artistic expression and environment, spirituality, responses of artists to contact with settlers, and contemporary activism about issues such as climate change. **Note:** Credit will be granted for only one of AHVS 382A, HA 382, HA 382A. |
| **AHVS 382B** | 1.5 | 3-0-0 | Indigenous Arts of the Southwest, California and Great Basin  
An introduction to arts of the Indigenous peoples of the Southwest, California, and the Great Basin. Explores types and styles of art works, cultural contexts, relationships between artistic expression and environment, spirituality, responses of artists to contact with settlers, and contemporary activities. **Note:** Credit will be granted for only one of AHVS 382B, HA 382, HA 382B. |
| **AHVS 382C** | 1.5 | 3-0-0 | Indigenous Arts of the Plains, Plateau, Woodlands and Southeast  
An introduction to arts of the Indigenous peoples of the Plains, Plateau, Woodlands and Southeast. Explores types and styles of art works, cultural contexts, relationships between artistic expression and environment, spirituality, responses of artists to contact with settlers, and contemporary activities. **Note:** Credit will be granted for only one of AHVS 382C, HA 382, HA 382C. |
| **AHVS 383** | 1.5 | 3-0-0 | Special Topics in North American Indigenous Arts  
An in-depth investigation of a special aspect of, or area in, indigenous arts. Specific topics may vary from year to year. **Notes:**  
- Credit will be granted for only one of AHVS 383, HA 383 (if taken in the same topic).  
- May be taken more than once for credit in different topics. |
| **AHVS 383A** | 1.5 | 3-0-0 | Arts and Indigenous Ways of Knowing  
Explores how North American indigenous arts reflect philosophies about human relationships with physical and intangible realms. Includes attention to contemporary issues and activism. Investigates relevance to addressing global challenges such as climate change and environmental degradation. **Note:** Credit will be granted for only one of AHVS 383A, HA 383 (if taken in the same topic). |
| **AHVS 383B** | 1.5 | 3-0-0 | Indigenous Arts and the Internet  
Explores diverse contexts in which North American indigenous arts appear on the Internet, including artists’ sites, virtual exhibitions, commercial galleries, discussions of cultural appropriation in social media and sites related to activism. Encourages active thought about the positive and negative impact of the Internet. **Note:** Credit will be granted for only one of AHVS 383B, HA 383 (if taken in the same topic). |
| **AHVS 384** | 1.5 | 3-0-0 | Northwest Coast Indigenous Arts and Colonization  
Investigation of NW Coast Indigenous creative responses to colonization, 1700 to present. Explores vital roles of art in opposing cultural oppression and empowering cultural survival. Content may include artists’ responses to colonizers, development of new art forms due to trade and tourist markets, persecution of potlatches and artistic expression, case studies of artists’ resistance to oppression, contemporary artists, and arts in relation to current threats to lands and cultures. **Note:** Credit will be granted for only one of AHVS 384, HA 384. |
| **AHVS 385A** | 1.5 | 3-0-0 | Indigenous Fashion in the Pacific Northwest  
A thematic overview of Indigenous wearable arts and body adornment in the Pacific Northwest. Topics surveyed may include everyday and ceremonial attire, tattoos, piercings, fashion and cultural appropriation. |
| **AHVS 385B** | 1.5 | 3-0-0 | Pacific Northwest Indigenous Arts and Exhibitions  
Case studies in the histories of exhibiting Pacific Northwest art and material culture, including ceremonial and cultural displays, photographs, world fairs, museums, galleries, public monuments and performative acts. |
| **AHVS 386** | 1.5 | 3-0-0 | Approaches to Collections and Museums  
An intensive study of the nature of selected museum and gallery collections and the ways in which they contribute to knowledge. **Note:** Credit will be granted for only one of AHVS 386, HA 386 (if taken in the same topic). |
| **AHVS 387A** | 1.5 | 3-0-0 | European and North American Architecture, 1750 to 1900  
A survey of key figures and movements in Western architecture from the beginnings of Neoclassicism to the appearance of radically novel forms of design in Europe before World War I. **Note:** Credit will be granted for only one of AHVS 387A, HA 387, HA 387A. **Recommendation(s):** AHVS 223 or HA 223 recommended prior to AHVS 387A. |
| **AHVS 387B** | 1.5 | 3-0-0 | Western Architecture since 1900  
A survey of key figures and movements in Western architecture between 1900 and today. From Frank Lloyd Wright, Le Corbusier and Mies van der Rohe to contemporary architects such as Frank Gehry, Zaha Hadid and Daniel Libeskind. **Note:** Credit will be granted for only one of AHVS 387B, HA 387, HA 387B. |
| **AHVS 390** | 1.5 | 3-0-0 | Directed Studies  
A course of directed readings and written assignments taken under the supervision of a faculty member. **Notes:**  
- Credit will be granted for only one of AHVS 390, HA 390 (if taken in the same topic).  
- May be taken more than once for credit in different topics to a maximum of 3 units. **Prerequisite(s):**  
  - Declared Honours or Major in Art History and Visual Studies; or  
  - permission of the department. |
| **AHVS 392** | 1.5 or 3.0 | 3-0-0 | Special Topics in Art History and Visual Studies  
An investigation of a special aspect or area of Art History and Visual Studies. Specific topics may vary from year to year. **Notes:**  
- Credit will be granted for only one of AHVS 392, HA 392 (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department to a maximum of 6 units. |
| **AHVS 397** | 1.5 | 3-0-0 | A Social History of Impressionism  
A survey of the art and lives of the French Impressionists from the 1860s to the 1880s. Examines Parisian street life, dancers, café concerts, tourism sites and popular fashions through the careers of these artists. **Note:** Credit will be granted for only one of AHVS 397, HA 397. |
| **AHVS 397A** | 1.5 | 3-0-0 | A Social History of Post-Impressionism  
Examines the life and work of George Seurat, Vincent Van Gogh, Henri de Toulouse-Lautrec and others who rejected Impressionism naturalism in favour of the power of the imagination. Tracks the movement’s development in France, Holland, Belgium, Britain and elsewhere. Topics may include anarchism, esoteric spirituality, symbolist literature, small press publishing and the graphic arts. |
| **AHVS 398A** | 1.5 | 3-0-0 | Art and Revolution I  
A survey of art’s role in radical social and political change from the French Revolution of 1789 to the Great Chinese Cultural Revolution of the 1960s. Examines anarchism, Marxist and fascist theories of art as well as the State mobilization of art in times of revolution. **Note:** Credit will be granted for only one of AHVS 398A, HA 392 (if taken in the same topic), HA 398A. |
AHVS 398B - AHVS 464

COURSE LISTINGS

AHVS 398B Units: 1.5 Hours: 3.0-0-0
Formerly: HA 398B
Art and Revolution II
A survey of art’s role in radical social and political change from the 1960s to the present. Examines anarchist, anti-authoritarian, and revolutionary movements in the arts. Topics include radical feminist art, the Situationists, Black Panther graphics, German squatter art in the 1980s, relational aesthetics, and post-anarchism and the arts.
Note: Credit will be granted for only one of AHVS 398B, HA 398B.

AHVS 411 Units: 1.5 Hours: 3.0-0-0
Formerly: HA 411
Seminar in World Histories of Art
An exploration of different cultural perspectives for conceptualizing artistic works and practices. Topics may include comparisons as well as examinations of specific intercultural and cross-cultural contacts.
Note: Credit will be granted for only one of AHVS 411, HA 411 (if taken in the same topic).
May be taken more than once for credit in different topics.
A combined undergraduate and graduate course.
Prerequisite(s):
Minimum 3 units of 300-level AHVS or HA courses; and
minimum fourth-year standing.

AHVS 420 Units: 1.5 Hours: 3.0-0-0
Formerly: HA 420
Seminar in Medieval Art
An intensive study of a selected aspect of medieval art.
Note: Credit will be granted for only one of AHVS 420, HA 420 (if taken in the same topic).
May be taken more than once for credit in different topics.
A combined undergraduate and graduate course.
Prerequisite(s):
One of AHVS 321, AHVS 323, AHVS 326, AHVS 328, HA 321, HA 323, HA 326, HA 328, HIST 236, HSTR 236, 1.5 units of 300- or 400-level MEDI course; and
minimum fourth-year standing.

AHVS 430 Units: 1.5 Hours: 3.0-0-0
Formerly: HA 430
Seminar in the Contemporary Art of South and Southeast Asia
An intensive examination of selected themes, histories and case studies in the contemporary arts and art worlds of South and/or Southeast Asia.
Note: Credit will be granted for only one of AHVS 430, HA 430 (if taken in the same topic).
May be taken more than once for credit in different topics to a maximum of 3 units.
A combined undergraduate and graduate course.
Prerequisite(s):
minimum fourth-year standing.

AHVS 435 Units: 1.5 Hours: 3.0-0-0
Seminar in Late Medieval and Early Renaissance Art, c. 1200-1500
An intensive study of selected aspects of Late Medieval and Renaissance Art.
Note: Credit will be granted for only one of AHVS 435, HA 435 (if taken in the same topic).
May be taken more than once for credit in different topics to a maximum of 3 units.
A combined undergraduate and graduate course.
Prerequisite(s):
Minimum fourth-year standing.

AHVS 447 Units: 1.5 Hours: 3.0-0-0
Formerly: HA 447
Seminar in Early Modern Art, c. 1500-1750
An intensive study of a selected aspect of Early Modern art.
Note: Credit will be granted for only one of AHVS 447, HA 447 (if taken in the same topic).
May be taken more than once for credit in different topics to a maximum of 3 units.
A combined undergraduate and graduate course.
Prerequisite(s):
Minimum fourth-year standing.

AHVS 449 Units: 1.5 Hours: 3.0-0-0
Formerly: HA 449
Seminar in Orientalism in Art and Architecture
Intensive study of aspects of the European and North American encounter with the Islamic world in the period after 1700.
Note: Credit will be granted for only one of AHVS 449, HA 449.
A combined undergraduate and graduate course.
Prerequisite(s):
One of AHVS 349, AHVS 352, AHVS 354, AHVS 357, AHVS 358, AHVS 359, HA 349, HA 352, HA 354, HA 357, HA 358, HA 359, and
minimum fourth-year standing.

AHVS 450 Units: 1.5 Hours: 3.0-0-0
Formerly: HA 450
Seminar in Islamic Art and Civilization
An intensive study of some special aspect of area of Islamic civilization.
Note: Credit will be granted for only one of AHVS 450, HA 450 (if taken in the same topic).
May be taken more than once for credit in different topics.
A combined undergraduate and graduate course.
Prerequisite(s):
One of AHVS 251, AHVS 321, AHVS 323, AHVS 325, AHVS 354, AHVS 357, AHVS 358, AHVS 359, HA 251, HA 321, HA 323, HA 325, HA 354, HA 357, HA 358, HA 359, HIST 455, MEDI 301, MEDI 302, and
minimum fourth-year standing.

AHVS 451 Units: 1.5 Hours: 3.0-0-0
Formerly: HA 451
Seminar in the Arts of Mughal India
An intensive study of an aspect of the art and architecture of Mughal India from the 16th-19th century. Topics will vary.
Note: Credit will be granted for only one of AHVS 451, HA 451.
A combined undergraduate and graduate course.
Prerequisite(s):
One of AHVS 349, AHVS 352, AHVS 354, AHVS 357, AHVS 358, AHVS 359, HA 349, HA 352, HA 354, HA 357, HA 358, HA 359, and
minimum fourth-year standing.

AHVS 460 Units: 1.5 or 3.0 Hours: 3.0-0-0
Formerly: HA 460
Seminar in Modern Art I (1870-1945)
Intensive study of artistic practice in the modern period. Geographic and cultural area and choice of issue may vary depending on instructor.
Note: Credit will be granted for only one of AHVS 460, HA 460 (if taken in the same topic).
May be taken more than once for credit in different topics with permission of the department.
A combined undergraduate and graduate course.
Prerequisite(s):
minimum fourth-year standing.

AHVS 461 Units: 1.5 or 3.0 Hours: 3.0-0-0
Formerly: HA 461
Seminar in Modern Art II (1945-present)
Intensive study of artistic practice in the modern period. Geographic and cultural area and choice of issue may vary depending on instructor.
Note: Credit will be granted for only one of AHVS 461, HA 461.
A combined undergraduate and graduate course.
Prerequisite(s):
minimum fourth-year standing.

AHVS 464 Units: 1.5 Hours: 3.0-0-0
Formerly: HA 464
Seminar in Contemporary Art
An intensive examination of artistic practices (including but not necessarily limited to painting and sculpture) operating since World War II. Cultural area may vary depending on the instructor.
Note: Credit will be granted for only one of AHVS 464, HA 464.
A combined undergraduate and graduate course.
Prerequisite(s):
minimum fourth-year standing.
AHVS 465 - AHVS 488C

AHVS 465  Units: 1.5  Hours: 3-0-0
Formerly: HA 465
Seminar in 19th- and 20th-Century Architecture
An intensive study of a selected aspect of modern architecture (for example, the development of a particular building-type), the work of a certain architect or group of architects, the emergence of a certain theme or issue in architecture). Topics will vary.
Notes:
• Credit will be granted for only one of AHVS 465, HA 465 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.
• A combined undergraduate and graduate course.
Prerequisite(s):
• One of AHVS 223, AHVS 387A, AHVS 387B, HA 223, HA 387A, HA 387B; and
• minimum fourth-year standing.

AHVS 478  Units: 1.5  Hours: 3-0-0
Formerly: HA 478
Seminar in Film Studies
A study of film and cultural theory. Considers relationships among cinema, socio-historical contexts and audiences.
Notes:
• Credit will be granted for only one of AHVS 478, HA 478.
• A combined undergraduate and graduate course.
Prerequisite(s):
• One of AHVS 312, AHVS 363, AHVS 364, AHVS 365, AHVS 366, AHVS 367, HA 312, HA 363, HA 364, HA 365, HA 366, HA 367; and
• minimum fourth-year standing.

AHVS 480  Units: 1.5 or 3.0  Hours: 3-0-0
Formerly: HA 480
Seminar in Contemporary North American Indigenous Arts
Notes:
• Credit will be granted for only one of AHVS 480, HA 480 (if taken in the same topic).
• May be taken more than once for credit in different topics to a maximum of 3 units.
• A combined undergraduate and graduate course.
Prerequisite(s): Minimum fourth-year standing.

AHVS 482  Units: 1.5 or 3.0  Hours: 3-0-0
Formerly: HA 482
Seminar in Indigenous Arts
An intensive study of a selected aspect of Indigenous North American, Pre-Columbian, African or Oceanic arts, or a comparative examination of a theme pertinent to Indigenous arts from more than one area.
Notes:
• Credit will be granted for only one of AHVS 482, HA 482 (if taken in the same topic).
• May be taken more than once for credit in different topics.
• A combined undergraduate and graduate course.
Prerequisite(s): Minimum fourth-year standing.

AHVS 484  Units: 1.5  Hours: 3-0-0
Formerly: HA 484
Seminar in the Contemporary Arts of the Pacific Northwest
An intensive study of a selected aspect of Pacific Northwest art.
Notes:
• Credit will be granted for only one of AHVS 484, HA 484 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.
• A combined undergraduate and graduate course.
Prerequisite(s): Minimum fourth-year standing.

AHVS 486A  Units: 1.5  Hours: 3-0-0
Formerly: HA 486A
Museum Principles and Practices I
Explores the purpose and functions of museums with particular emphasis on relationships with communities and on the ways in which knowledge is created and preserved through collections and research. Topics include history and organization of museums and collections curatorship, research, documentation and care. Emphasis on role of museums, their collections and the knowledge these convey in contemporary society.
Note: Credit will be granted for only one of AHVS 486A, HA 486, HA 486A.

AHVS 486B  Units: 1.5  Hours: 3-0-0
Formerly: HA 486B
Museum Principles and Practices II
Explores the innovative approaches to audience engagement in museums, emphasizing the principles and practices of collaboration, diversity, cultural sensitivity and dialogue that effective museums demonstrate through their management, communications, and the development and design of exhibitions and interpretive planning.
Note: Credit will be granted for only one of AHVS 486B, HA 486, HA 486B.

AHVS 487A  Units: 1.5  Hours: 3-0-0
Formerly: HA 487A
Heritage Resource Management
An intensive study of the nature and value of heritage resources worldwide, and of management approaches that support their preservation and presentation. Topics include principles of heritage conservation, identification of heritage value and significance, inventory and documentation of heritage resources, organizational and legal frameworks for conservation, planning for conservation, approaches to revitalization and cultural tourism.
Note: Credit will be granted for only one of AHVS 487A, HA 487, HA 487A.

AHVS 488A  Units: 1.5  Hours: 3-0-0
Formerly: HA 488A
Managing Cultural Organizations
An intensive study of the application of management theory and practice in cultural organizations, with particular emphasis on: characteristics of non-profit cultural organizations; governance and leadership; establishing mission goals and objectives; roles of executive and artistic directors; policy development and implementation; personnel management and team building; financial management; strategic and operational planning; information management; public relations; marketing; volunteer development; and ethical and legal issues.
Notes:
• Credit will be granted for only one of AHVS 488A, HA 488A.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488B  Units: 1.5  Hours: 3-0-0
Formerly: HA 488B
Collections Management
An examination of the development and contemporary roles of museum collections, with an emphasis on the principles and practices involved in their management, including policy development, legal and ethical considerations; documentation and information management, acquisitions, accessioning, deaccessioning, loans, risk management, care and handling. Issues of ownership, access and collections planning will also be addressed.
Notes:
• Credit will be granted for only one of AHVS 488B, HA 488B.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488C  Units: 1.5  Hours: 3-0-0
Formerly: HA 488C
Communicating Through Exhibitions
Topics include the history, functions and purpose of exhibitions; communicating through artifacts, specimens and intangible heritage; frames of reference for communication; developing storylines; methodologies for planning; roles of the curator, educator, registrar, conservator, and other staff; project management; funding and sponsorship; temporary and travelling exhibitions; ethical considerations; and evaluation techniques.
Notes:
• Credit will be granted for only one of AHVS 488C, HA 488C.
• Subject to differential fees; consult Fees for Undergraduate Programs.
COURSE LISTINGS AHVS

AHVS 488D - AHVS 488S

AHVS 488D  Units: 1.5  Hours: 3-0-0
Formerly: HA 488D
Caring for Museum Collections
An examination of the physical characteristics of museum collections, the ways they are affected by a range of factors in their physical and social environments, and the risk assessment, preventive conservation, and treatment guidelines that are used to ensure safekeeping of artifacts and specimens in storage, on exhibit, and in use for research or programming purposes.
Notes:
• Credit will be granted for only one of AHVS 488D, HA 488D.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488G  Units: 1.5  Hours: 3-0-0
Formerly: HA 488G
Public Programming
Examines the central role of public programming and interpretation in museums, galleries, heritage programs/sites and related agencies, and the relationship with learning and education. Emphasizes approaches which respond to community interests and reflect curatorial priorities. Planning, delivery, management and evaluation strategies for a range of programming approaches are covered.
Notes:
• Credit will be granted for only one of AHVS 488G, HA 488G.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488H  Units: 0.5-1.5
Formerly: HA 488H
Topics in Museum Studies
An intensive study of some special aspect or area of museum studies. Content may vary each year.
Notes:
• Credit will be granted for only one of AHVS 488H, HA 488H (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488J  Units: 1.5  Hours: 3-0-0
Formerly: HA 488J
Curatorship
Examines the core curatorial concepts of collections planning, management, research, analysis, documentation, and exhibition development, and relates them to the evolving roles of museums in society. Topics include collections and acquisition policies, object oriented research methods, curatorial approaches to intangible heritage, documentation, information management, access, copyright, curatorial collaborations, and the communication of research through exhibitions, public programming, and print and electronic media.
Notes:
• Credit will be granted for only one of AHVS 488J, HA 488J (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488K  Units: 1.5  Hours: 3-0-0
Formerly: HA 488K
Exhibition Planning and Design
An examination of the exhibition design process with a special focus on the design and museological elements which are considered in the creation of effective exhibitions. Topics include the roles of exhibitions; communicating with the visitor; roles of the object; conservation considerations; visitor flow, lighting, colour, storylines; project planning and management; temporary and travelling exhibits; showcase arrangements; production scheduling, installation and maintenance. Field work, study visits, and the development of a scale model are featured.
Notes:
• Credit will be granted for only one of AHVS 488K, HA 488K.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488M  Units: 0.5-1.5
Formerly: HA 488M
Topics in Cultural Management
An intensive study in some special aspect or area of cultural management. Content may vary each year.
Notes:
• Credit will be granted for only one of AHVS 488M, HA 488M (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488N  Units: 1.5  Hours: 3-0-0
Formerly: HA 488N
Museum Information Management
Museums hold a wealth of diverse information that is increasingly recognized as a key institutional and community resource. Explores the dimensions, value, and potential uses of museum information, and focuses on strategic integration and management approaches that utilize computer and Web-based information systems to organize, process, and access information for collections management, curatorial, research, programming, and administrative purposes.
Notes:
• Credit will be granted for only one of AHVS 488N, HA 488N.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488P  Units: 1.5  Hours: 3-0-0
Formerly: HA 488P
Human Resource Management in Cultural Organizations
An intensive examination of the ways in which staff and volunteers are managed in cultural organizations, with particular emphasis on museum and heritage agencies, and stresses integrated, planned approaches to human resource development. Topics include organizational dynamics, leadership and decision-making, board/staff relations, policy development, position descriptions, recruitment, performance planning, communications, legal considerations, and ethics and professionalism.
Notes:
• Credit will be granted for only one of AHVS 488P, HA 488P.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488Q  Units: 1.5  Hours: 3-0-0
Formerly: HA 488Q
Financial Management in Cultural Organizations
Examines the complex factors which affect the financial management and stability of cultural organizations, with particular emphasis on museums and heritage agencies. Topics include the changing funding environment, characteristics of non-profit agencies; strategic, operational and business planning; budgeting and accounting systems; forecasting; fundraising, grantsmanship and revenue development; managing capital projects; and legal and ethical considerations.
Notes:
• Credit will be granted for only one of AHVS 488Q, HA 488Q.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488R  Units: 1.5  Hours: 3-0-0
Formerly: HA 488R
Planning in Cultural Organizations
The central roles of planning in project development and/or organizational management and change are explored, along with a range of planning principles and methodologies suited to the museum, heritage, and cultural sectors.
Notes:
• Credit will be granted for only one of AHVS 488R, HA 488R.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488S  Units: 1.5  Hours: 3-0-0
Formerly: HA 488S
Building Community Relationships
Strong, sustained and mutually beneficial relationships with communities are critical to museums, heritage agencies and cultural organizations that seek relevant, positive and socially responsible roles in society. Explores the complex factors that are reshaping relationships with communities and addresses methods of defining community characteristics and needs; potential community roles and relationships with cultural organizations; and strategies for creating and maintaining relationships with diverse groups.
Notes:
• Credit will be granted for only one of AHVS 488S, HA 488S.
• Subject to differential fees; consult Fees for Undergraduate Programs.
AHVS 488U - AHVS 489H

AHVS 488U  Units: 1.5  Hours: 3-0-0
Formerly: HA 488U
Managing Archival Collections
A focus on archival collections as components of museum collections requiring specialized organization, management and care. Topics include the value and nature of archival materials; theories, principles, and practices governing archival management; legal, ethical, and professional frameworks; appraisal, acquisition, and accessioning, arrangement and description; physical processing and storage; preventive conservation; reference services and access; sharing archives and using them to enhance exhibits, education and outreach.
Notes:
• Credit will be granted for only one of AHVS 488U, HA 488U.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488V  Units: 1.5  Hours: 3-0-0
Formerly: HA 488V
Museums as Learning Environments
Examines the role of museums, galleries, interpretive centres and other related organizations as effective informal learning environments. Topics include an exploration of the history and frameworks for museum learning and practice, learning theories and understanding visitors, audience engagement and development, organizations and facilities that support learning, strategies for design and marketing, research and evaluation of learning initiatives.
Notes:
• Credit will be granted for only one of AHVS 488V, AHVS 488H (if taken in the same topic), HA 488H (if taken in the same topic).
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488W  Units: 1.5  Hours: 3-0-0
Social Engagement
Explores the profound social changes that are reshaping the nature and purposes of museums and other cultural heritage organizations in a pluralistic society. Considers the implications for all aspects of their specialized functions. Particular focus on how such organizations serve as dynamic social spaces for community engagement and action.
Notes:
• Credit will be granted for only one of AHVS 488W, CH 561.
• A combined undergraduate and graduate course.

AHVS 488X  Units: 1.5  Hours: 3-0-0
Curatorial Planning and Practice
Considers how traditional concepts of curatorial practice have shifted significantly in the face of more democratic relations with community, more subjective perspectives of knowledge, and increasing emphasis on the museum’s social and educative roles. Explores the nature and scope of contemporary curatorial theory and practice and focuses on the ways in which curators engage with cultural heritage resources, develop sustainable collections, and generate and share associated knowledge to meet the needs of diverse communities.
Notes:
• Credit will be granted for only one of AHVS 488X, CH 562.
• A combined undergraduate and graduate course.

AHVS 488Y  Units: 1.5  Hours: 3-0-0
Visitor Experiences
Explores the evolving concept and implications of a holistic approach to visitor engagement in museums and other cultural heritage institutions. Focuses on museums’ relationships with their publics, their capacity to serve as social spaces, strategies for audience research, the characteristics of visitors, communications, exhibitions, formal and informal learning activities and evaluation strategies.
Notes:
• Credit will be granted for only one of AHVS 488Y, CH 561.
• A combined undergraduate and graduate course.

AHVS 489A  Units: 1.5  Hours: 3-0-0
Heritage Area Conservation
Topics in the conservation and rehabilitation of historic urban and rural areas. The historical, aesthetic, economic, social, and legal aspects of heritage area planning will be considered. Case histories and planning models will be discussed. An applied studies project normally will be assigned.
Notes:
• Credit will be granted for only one of AHVS 489A, HA 489A (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 489C  Units: 1.5  Hours: 3-0-0
Determining Significance of Heritage Resources
Definition of the heritage value or significance of a historic place or resource is a key step in the inventory and management of heritage resources. This course begins with an exploration of the range of historical, aesthetic, social and scientific values that establish the character-defining elements of historic resources, including buildings, structures, historic districts and cultural landscapes. Various methods of inventory and evaluation, from numerical scoring systems to systems that establish historical contexts or thematic studies, are discussed along with their roles in guiding subsequent conservation planning and decision-making.
Notes:
• Credit will be granted for only one of AHVS 489C, HA 489C.
• A combined undergraduate and graduate course.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 489D  Units: 1.5  Hours: 3-0-0
Studies in Building Conservation
Theoretical and applied studies in the conservation of historic structures. Topics may include site history, pathology, preservation and repair of selected materials (wood, masonry, brick, plasterwork, metalwork), chronochronology. Laboratory sessions on the examination and analysis of materials may be conducted.
Notes:
• Credit will be granted for only one of AHVS 489D, HA 489D (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 489E  Units: 0.5-1.5
Cultural Tourism
Visitors to museums and heritage organizations are seeking authentic, engaging and memorable experiences that foster an awareness of the history and culture of local communities. Explores the complex dynamics, benefits, and issues associated with cultural tourism and provides strategies to assess the opportunities and implications associated with tourism development and programming for cultural institutions.
Notes:
• Credit will be granted for only one of AHVS 489E, HA 489E (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 489G  Units: 1.5  Hours: 3-0-0
Cultural Landscapes
Culturally modified landscapes are important heritage resources, both in their own right and as a context for historic places. Explores the range and characteristics of cultural landscapes including gardens, parks, transportation corridors, and settlement and traditional use sites; and focuses on methods of ‘reading landscapes’ to determine significance and character defining elements; site examination, inventory and analysis; preservation and conservation strategies; preservation legislations, planning, easements, registration and funding. Field work is featured.
Notes:
• Credit will be granted for only one of AHVS 489G, HA 489G.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 489H  Units: 1.5  Hours: 3-0-0
Cultural Heritage
Formerly: HA 489H
Cultural Heritage
Formerly: HA 489H
Cultural Heritage
Formerly: HA 489H
Cultural Heritage
Formerly: HA 489H
Cultural Heritage
Formerly: HA 489H
Cultural Heritage
AHVS 489J Units: 1.5 Hours: 3-0-0
Formerly: HA 489J
Conserving Historic Structures
The steps involved in identifying and recommending strategies to conserve historic structures are addressed. Topics include the components, materials and systems of historic structures; factors causing deterioration; investigation and documentation techniques; approaches to conservation treatments; and project management strategies. Participants will have opportunities to focus on selected architectural materials and features.
Notes:
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 489K Units: 1.5 Hours: 3-0-0
Formerly: HA 489K
Heritage Conservation in Context
Addresses the complex range of principles and practices that influence heritage preservation and conservation planning and decision-making. The implications of international and national conservation charters, principles, standards and guidelines are discussed, along with legal, programmatic and financial incentives and constraints.
Notes:
• Credit will be granted for only one of AHVS 489K, HA 489K.
• A combined undergraduate and graduate course.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 489L Units: 1.5 Hours: 3-0-0
Formerly: HA 489L
Heritage Conservation Planning
Focuses on approaches to planning and heritage conservation decision-making, and discusses the components of the conservation planning process including community involvement and consultation, the acquisition and integration of technical information and professional expertise, and the integration of conservation planning in the long-term management of heritage resources.
Notes:
• Credit will be granted for only one of AHVS 489L, HA 489L.
• A combined undergraduate and graduate course.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 490 Units: 1.5 or 3.0
Formerly: HA 490
Directed Studies
A course of directed readings and written assignments taken under the supervision of a faculty member.
Notes:
• Credit will be granted for only one of AHVS 490, HA 490 (if taken in the same topic).
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Pro Forma required.
Prerequisite(s):
• Declared Honours or Major in Art History and Visual Studies; or
• permission of the department.

AHVS 491A Units: 1.5 or 3.0
Formerly: HA 491A
Directed Studies in Cultural Resource Management
A course of directed readings and written assignments taken under the supervision of a faculty member.
Notes:
• Credit will be granted for only one of AHVS 491A, HA 491A.
• Pro Forma required.
Prerequisite(s):
• Admission to Diploma program in Cultural Resource Management; or
• permission of the department.
Grading: May be INP, standard grade.

AHVS 491B Units: 1.5 or 3.0
Formerly: HA 491B
Practicum in Cultural Resource Management
Application of cultural resource management theories to field-based practice through placement with an organization.
Note: Credit will be granted for only one of AHVS 491B, HA 491B.
Prerequisite(s):
• 6 units from AHVS 200, AHVS 202, AHVS 386, AHVS 486A, AHVS 486B, AHVS 493; and
• fourth-year standing; and
• a declared Honours or Major in Art History and Visual Studies or a declared Minor in Museum Studies; or admission to the Cultural and Resource Management Diploma; and
• permission of the department.
Grading: INP, COM, N, F.

AHVS 492 Units: 1.5 or 3.0 Hours: 3-0-0
Formerly: HA 492
Advanced Studies in Art History and Visual Studies
An opportunity for highly qualified undergraduate students to take a graduate seminar in the department for undergraduate credit.
Notes:
• Credit will be granted for only one of AHVS 492, HA 492 (if taken in the same topic).
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Pro Forma required.
Prerequisite(s):
• Admission to Diploma in Cultural Resource Management or declared Honours or Major in Art History and Visual Studies; and
• permission of the department.

AHVS 493 Units: 1.5 Hours: 3-0-0
Formerly: HA 493
Seminar on the Williams Collection
An intensive study of selected aspects of the Williams Collection.
Notes:
• Credit will be granted for only one of AHVS 493, HA 493 (if taken in the same topic).
• May be taken more than once for credit with permission of the department.
• A combined undergraduate and graduate course.
• Several classes may be taught at area museums and galleries.
Prerequisite(s): Minimum fourth-year standing.

AHVS 498 Units: 1.5 Hours: 3-0-0
Formerly: HA 498
Majors Seminar
Explores diverse skills developed during undergraduate studies and their applicability to careers. Discusses the value of liberal arts, competencies employers seek, and emerging interdisciplinary areas, intersections between art and science, virtual exhibitions and on-line curation. Participants create a video clip and a WordPress blog that represent skills to audiences including potential employers.
Notes:
• Credit will be granted for only one of AHVS 498, HA 411 (if taken in Sep-Dec 2014), HA 498.
• Open to Honours in Art History and Visual Studies students with permission of the department.

ANTH
Anthropology
Department of Anthropology
Faculty of Social Sciences

ANTH 100 Units: 1.5 Hours: 3-0-1
Introduction to Anthropology
An introductory survey of the sub-fields of anthropology: biological anthropology, archaeology, cultural and social anthropology, and linguistic anthropology. Topics include the human fossil record, the archaeological record from Paleolithic cultures to urban civilizations, and examination of contemporary human societies, drawn from various levels of complexity.
Note: Credit will be granted for only one of ANTH 100, ANTH 100A, ANTH 100B.

ANTH 150 Units: 1.5 Hours: 3-0-0
Exploring Anthropology
Introduces topics from Anthropology on the cultural and biological diversity of past and present human and primate lives. The topic may change from year to year.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic information will be provided by the department.

ANTH 200 Units: 1.5 Hours: 2-0-2
Cultural and Social Anthropology
Introduction to the analysis of sociocultural systems. Major topics include subsistence, production and distribution, social organization, politics, religion, kinship, symbolic systems, and cultural change from an international perspective.
Note: Credit will be granted for only one of ANTH 200, ANTH 200A, ANTH 200B.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the program.
ANTH 210 - ANTH 317

ANTH 210  Units: 1.5  Hours: 3-0-0
Visual Anthropology: A Global Perspective
Introduction to visual anthropology. Visual practice and representation will be explored through major topics including power and knowledge, visual literacy, performance, digital media, space and place, design, race, gender and sexuality.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the program.

ANTH 240  Units: 1.5  Hours: 2-2-0
Archaeology
An introduction to archaeological research and problems of interpretation. Laboratories will provide an opportunity to become familiar with archaeological materials and with some basic techniques of analysis.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the program.

ANTH 250  Units: 1.5  Hours: 2-2-0
Biological Anthropology
An introduction to human biological evolution. Topics include the study of non-human primates, investigation of the human fossil record, human skeletal variation, population genetics, growth and development and morphological variation.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the program.

ANTH 260  Units: 1.5  Hours: 3-0-0
Formerly, ANTH 316
Introduction to Anthropological Research
Introduction to the diverse methods of inquiry and interpretation used in anthropological research, and key debates about the status of anthropological data and knowledge, the conditions of their production, and innovative directions in the development of anthropological research. Focuses on the relationship between methodology and theory, ethics, research design, and qualitative and quantitative data collection and analysis.
Note: Credit will be granted for only one of ANTH 260, ANTH 316, ANTH 416.
Prerequisite(s): One of ANTH 200, ANTH 240, ANTH 250.

ANTH 302  Units: 1.5  Hours: 3-0-0
Globalization, Health, and the Environment
A comparative framework for understanding the relationship between global processes, the environment and health. Topics may include the origin and evolution of infectious diseases with human societies, social and economic inequalities, violence, gender, diet, health policies, technologies, pandemics, climate change, and health care industries. Emphasis on how local experiences of health are linked to global processes via the environment.
Prerequisite(s): Minimum second-year standing.

ANTH 303  Units: 1.5  Hours: 3-0-0
Anthropology of Sound
Examines sound-related dimensions from an anthropological perspective. Draws on ethnographies of listening, sound art works and recent writings in Sound Studies. Students experiment with soundscape production.
Prerequisite(s): Minimum second-year standing.
ANTH 318 Units: 1.5 Hours: 3-0-0
Ethnographic Research Methods
Review of ethnographic methods used in the field by cultural anthropologists. Topics include the relationship between field methods and theory in anthropology, field experiences and techniques, and qualitative data analysis.
Note: Credit will be granted for only one of ANTH 318, ANTH 390, ANTH 395 (if taken in the same topic).
Prerequisite(s):
• ANTH 200; and
• ANTH 260 or ANTH 316.

ANTH 319 Units: 1.5 Hours: 3-0-0
Research Methods in Archaeology and Biological Anthropology
Research methods employed by archaeologists and biological anthropologists in lab and field settings. Topics include research design and project management, hypothesis testing, sampling, database management, data presentation, scientific writing, and the integration of new technologies to answer long-standing questions in these sub-disciplines.
Prerequisite(s):
• ANTH 260 or ANTH 316; and
• ANTH 240 or ANTH 250.

ANTH 323 Units: 1.5 Hours: 3-0-0
Anthropology of the Circumpolar Region
Discussion and analysis of the peoples and cultures of Arctic and sub-Arctic Eurasia and North America.
Prerequisite(s):
• ANTH 200; or
• permission of the program.

ANTH 325 Units: 1.5 Hours: 3-0-0
Anthropology of South America
Discussion and analysis of the peoples and cultures of South America.
Prerequisite(s):
• ANTH 200; or
• permission of the program.

ANTH 329 Units: 1.5 Hours: 3-0-0
Anthropology of Southeast Asia
Discussion and analysis of the peoples and cultures of Mainland and Island Southeast Asia.
Prerequisite(s):
• ANTH 200; or
• permission of the program.

ANTH 336 Units: 1.5 Hours: 3-0-0
Contemporary Aboriginal Peoples of Canada
Introduction to and survey of contemporary social, political, economic and cultural issues in contemporary aboriginal communities in Canada.
Prerequisite(s): Minimum third-year standing.

ANTH 340 Units: 1.5 Hours: 3-0-0
Archaeology of British Columbia
Reviews the archaeological evidence of 14,000 years of First Nations occupation of British Columbia. Emphasizes continuity and change in subsistence, settlement, technology, and the environment from the last Ice Age through the arrival of Europeans.
Prerequisite(s): Minimum second-year standing.

ANTH 341 Units: 1.5 Hours: 3-0-0
Paleolithic Archaeology
A review of the formative phases in the development of prehistoric cultures and societies during the Plio-Pleistocene in Africa, Eurasia and Australasia. Archaeological evidence on cultural beginnings, ecology, subsistence systems, technology and social life of early humankind.
Note: Credit will be granted for only one of ANTH 341, ANTH 341A.
Prerequisite(s): ANTH 240.

ANTH 343 Units: 1.5 Hours: 0-3-0
Archaeological Field Techniques
Training in the methods and techniques of archaeology through participation in a field project. Complements the regional topics of 344, with which it will normally be combined to form the archaeological field school.
Note: Credit will be granted for only one of ANTH 343, ANTH 390 (if taken in the same topic).
Prerequisite(s):
• ANTH 240; and
• permission of the program.

ANTH 344 Units: 1.5 Hours: 3-0-0
Regional Topics in Archaeology
Intensive study of topics in archaeological method and theory relevant to the interpretation of a single site or region. Complements the applied archaeological research of 343, with which it will normally be combined to form the archaeological field school.
Note: Credit will be granted for only one of ANTH 344, ANTH 390 (if taken in the same topic).
Prerequisite(s): ANTH 240 and
• permission of the program.

ANTH 345 Units: 1.5 Hours: 3-0-0
Archaeology of Holocene Africa
Explores the evidence for the origins and development of cave art, personal adornment and symbol use in the Paleolithic and their role in the evolution of human cognition. Specific topics include the definition of art in an archeological context, dating and analysis techniques, contemporary examples of rock art, and possible meanings and functions of art and personal adornment during the Paleolithic.
Note: Credit will be granted for only one of ANTH 349, ANTH 390, ANTH 392 (if taken in the same topic).
Prerequisite(s): ANTH 240.

ANTH 346 Units: 1.5 Hours: 3-0-0
Archaeology of Holocene Africa
Explores the evidence for the origins and development of cave art, personal adornment and symbol use in the Paleolithic and their role in the evolution of human cognition. Specific topics include the definition of art in an archeological context, dating and analysis techniques, contemporary examples of rock art, and possible meanings and functions of art and personal adornment during the Paleolithic.
Note: Credit will be granted for only one of ANTH 349, ANTH 390, ANTH 392 (if taken in the same topic).
Prerequisite(s): ANTH 240.

ANTH 347 Units: 1.5 Hours: 3-0-0
The Pleistocene of Africa
Formerly: ANTH 451.

ANTH 348 Units: 1.5 Hours: 3-0-0
Peopling of New Territories
Current reconstructions show humans initially evolved in Africa, and subsequently expanded their range to the extent that, by the time of European voyages of world exploration, people were already almost everywhere. Focuses on the processes by which humans discovered and adapted to previously unsettled lands. Emphasis will be on archeological data and interpretation via selected case studies, particularly the first people of Australia, the Pacific, and the Americas.
Note: Credit will be granted for only one of ANTH 348, ANTH 390, ANTH 392 (if taken in the same topic).
Prerequisite(s): ANTH 240.

ANTH 349 Units: 1.5 Hours: 3-0-0
Paleolithic Art
Explores the evidence for the origins and development of cave art, personal adornment and symbol use in the Paleolithic and their role in the evolution of human cognition. Specific topics include the definition of art in an archeological context, dating and analysis techniques, contemporary examples of rock art, and possible meanings and functions of art and personal adornment during the Paleolithic.
Note: Credit will be granted for only one of ANTH 349, ANTH 390, ANTH 392 (if taken in the same topic).
Prerequisite(s): ANTH 240.

ANTH 350 Units: 1.5 Hours: 3-0-0
Primate Behavioural Ecology
Fundamentals of primate behavioural ecology, including theoretical approaches, history of the discipline within anthropology, taxonomy, zoogeography, ecology, behaviour, communication, and natural history of non-human primates.
Note: Credit will be granted for only one of ANTH 350, ANTH 350A.
Prerequisite(s): Either ANTH 250, or BIOL 215 and BIOL 345.

ANTH 351 Units: 1.5 Hours: 2-2-0
Human Origins
Examination of the fossil evidence for human evolution emphasizing the interpretation and reconstruction of the human lineage.
Note: Credit will be granted for only one of ANTH 351, ANTH 350B.
Prerequisite(s): ANTH 250.

ANTH 352 Units: 1.5 Hours: 2-2-0
Human Osteology
Theoretical and methodological approaches to the study of human skeletal remains.
Note: Credit will be granted for only one of ANTH 352, ANTH 451.
Prerequisite(s): ANTH 250.

ANTH 355 Units: 1.5 Hours: 3-0-0
AIDS in the World
Survey and analysis of the biological and social issues arising from the Acquired Immune Deficiency Syndrome pandemic.
Note: Credit will be granted for only one of ANTH 355, ANTH 390 (if taken in the same topic).
Prerequisite(s): ANTH 250.
ANTH 356 Units: 1.5 Hours: 3-0-0
Sex and Drugs, Biology and Culture
A survey of historic and contemporary attempts to enhance sexual pleasure or control the biological consequences of human sex via chemical means. Topics include the history, marketing and adoption of female contraceptives, erectile dysfunction drugs, and pre-and post-exposure prophylaxis programs, Highly Active Anti-Retroviral Therapy and HIV/AIDS, and recreational and designer drugs including crystal methamphetamine and Ecstasy.
Prerequisite(s): ANTH 250.

ANTH 357 Units: 1.5 Hours: 3-0-0
The Human Animal
Introduction to human evolutionary biology. Explores how evolutionary forces have shaped human anatomy, biology and behaviour. Examines patterns of human biological variation and the genetic and environmental factors that contribute to this variation, and how biological plasticity of humans both shapes this variation and contributes to potential health problems.
Note: Credit will be granted for only one of ANTH 357, ANTH 394 (if taken in the same topic).
Prerequisite(s): One of ANTH 230, BIOL 184, BIOL 190B, BIOL 230.

ANTH 360 Units: 1.5 Hours: 1-2-0
Zooarchaeology
An introduction to the study of animal bones from archaeological sites, with a lecture component emphasizing general methodology and case studies from different regions and a laboratory component focusing on the analysis of Northwest Coast fauna.
Note: Credit will be granted for only one of ANTH 360, ANTH 390, ANTH 392 (if taken in the same topic).
Prerequisite(s): ANTH 240.

ANTH 361 Units: 1.5 Hours: 3-0-0
Archaeology of Medieval Europe
Introduction to the theory and practice of medieval archaeology, illustrated case studies and experimental archaeology. Explores a range of themes including status, gender, technology, religion, and daily life.
Note: Credit will be granted for only one of ANTH 361, ANTH 392 (if taken in the same topic), MEDI 360 (if taken in the same topic).
Prerequisite(s): Minimum third-year standing.

ANTH 362 Units: 1.5 Hours: 3-0-0
Archaeology of Children
Drawing on data from a wide range of disciplines, explores what can be learned about the lives of children in the past and through them, the values, beliefs, and behaviours of the cultures of which they were a part.
Note: Credit will be granted for only one of ANTH 362, ANTH 392 (if taken in the same topic).
Prerequisite(s): Minimum second-year standing.
Recommendation(s): ANTH 240 recommended prior to ANTH 362.

ANTH 365 Units: 1.5 Hours: 3-0-0
Colonialism and Daily Life
Comparative analysis of how daily life was transformed through colonial processes in different regional and temporal contexts. Draws on studies in archaeology and historical anthropology from Africa, Europe, and North America to explore processes and consequences of colonial entanglements for both colonizers and the colonized. Emphasizes importance of material culture as an active component of cultural transformations.
Prerequisite(s): Minimum second-year standing.

ANTH 366 Units: 1.5 Hours: 3-0-0
Anthropology of Reproduction
A survey of contemporary anthropological research on human reproduction, including diversity in cultural meanings of childbearing and the ways in which reproduction is shaped by social hierarchies of gender, wealth, ethnicity, sexuality and disability.
Note: Credit will be granted for only one of ANTH 366, ANTH 390, ANTH 393 (if taken in the same topic).
Prerequisite(s): ANTH 240.

ANTH 367 Units: 1.5 Hours: 3-0-0
Heritage and Historical Archaeology Field Course
Introduces students to the archaeological methods used in recording historical cemeteries using a hands-on approach. Students will learn and practice a range of skills including data collection and management (field and lab), mapping and recording, archival research, and project design and implementation.
Note: Credit will be granted for only one of ANTH 367, ANTH 395 (if taken in the same topic).
Prerequisite(s): • ANTH 240; or • permission of the department.

ANTH 368 Units: 1.5 Hours: 3-0-0
Archaeology of Mexico
Introduction to the diverse peoples and cultures of Mexico from the pre-Conquest period to the present day. Topics may include colonialism, religion, narcotrafficking, neoliberalism, tourism, migration and social movements.
Note: Credit will be granted for only one of ANTH 371, ANTH 391 (if taken in the same topic).
Prerequisite(s): • ANTH 240; or • permission of the program.

ANTH 369 Units: 1.5 Hours: 3-0-0
Anthropology of Reproduction
A survey of contemporary anthropological research on human reproduction, including diversity in cultural meanings of childbearing and the ways in which reproduction is shaped by social hierarchies of gender, wealth, ethnicity, sexuality and disability.
Note: Credit will be granted for only one of ANTH 366, ANTH 390, ANTH 393 (if taken in the same topic).
Prerequisite(s): ANTH 240.

ANTH 370 Units: 1.5 Hours: 3-0-0
Directed Experiential Learning in Anthropology
Conducted in relation to work or volunteer activities with a host organization identified by the student and approved by the department. Student will engage in experiential learning and assessment of anthropological methods in an applied setting. Student will work with an instructor to identify issues to be explored and what course assessment methods will be used before the experiential learning opportunity begins. Must include at least 150 hours of work or volunteer activities. Assessment typically involves a reflective journal and final paper.
Note: Students are responsible for proposing an internship and arranging for a supervising instructor.
Prerequisite(s): • Minimum third-year standing; and • minimum GPA of 6.5 in 300- and 400-level ANTH courses; and • minimum cumulative GPA of 5.5; and • declared Honours or Major in Anthropology.

ANTH 373 Units: 1.5 Hours: 0-3-0
Museums and Anthropology
Examines the roles of museums and their collections in the production of knowledge and relationships among communities of peoples. Topics may include the colonial history of museums, anthropology’s role in creating collections and exhibitions, exhibition strategies, the role of museums and their collections in an era of Truth and Reconciliation, community-based research and curatorial practices. Emphasis is on engagement between Canadian museums and First Nations, Inuit and Metis communities and collections of material culture.
Note: Credit will be granted for only one of ANTH 373, ANTH 393 (if taken in the same topic).
Prerequisite(s): Minimum second-year standing.

ANTH 374 Units: 1.5 Hours: 3-0-0
Cultural Anthropology Field School Methods
Training in the methods associated with fieldwork in cultural anthropology through participation in a field school project. Complements the regional topics of 382, with which it will normally be combined to form the cultural anthropology field school.
Note: Credit will be granted for only one of ANTH 381, ANTH 395 (if taken in the same topic).
Prerequisite(s): • ANTH 206 and • permission of the program.

ANTH 375 Units: 1.5 Hours: 3-0-0
Cultural Anthropology Field School Regional Topics
Immersive study of topics in cultural anthropology relevant to one or more region(s). Complements the applied cultural anthropology field methods of 381, with which it will normally be combined to form the cultural anthropology field school.
Note: Credit will be granted for only one of ANTH 382, ANTH 393 (if taken in the same topic).
Prerequisite(s): • ANTH 206 and • permission of the program.
ANTH 391  Units: 1.5  Hours: 3-0-0*
Selected Problems in Anthropology: Area Studies
Presentation of selected problems in anthropology.
* Contact hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of ANTH 391, ANTH 390 (if taken in the same topic).
• May be taken more than once for credit in different topics.
• Topics information will be provided by the departmental office.
Prerequisite(s):
• For students with declared Honours or Major in Anthropology:
  • set by department depending upon topic.
• For students without declared Honours or Major in Anthropology:
  • permission of the program.

ANTH 392  Units: 1.5  Hours: 3-0-0*
Selected Problems in Anthropology: Archaeology
Presentation of selected problems in anthropology.
* Contact hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of ANTH 392, ANTH 390, ANTH 390C (if taken in the same topic).
• May be taken more than once for credit in different topics.
• Topics information will be provided by the departmental office.
Prerequisite(s):
• For students with declared Honours or Major in Anthropology:
  • set by department depending upon topic.
• For students without declared Honours or Major in Anthropology:
  • permission of the program.

ANTH 393  Units: 1.5  Hours: 3-0-0*
Selected Problems in Anthropology: Cultural Anthropology
Presentation of selected problems in anthropology.
* Contact hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of ANTH 393, ANTH 390, ANTH 390A (if taken in the same topic).
• May be taken more than once for credit in different topics.
• Topics information will be provided by the departmental office.
Prerequisite(s):
• For students with declared Honours or Major in Anthropology:
  • set by department depending upon topic.
• For students without declared Honours or Major in Anthropology:
  • permission of the program.

ANTH 394  Units: 1.5  Hours: 3-0-0*
Selected Problems in Anthropology: Biological Anthropology
Presentation of selected problems in anthropology.
* Contact hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of ANTH 394, ANTH 390, ANTH 390B (if taken in the same topic).
• May be taken more than once for credit in different topics.
• Topics information will be provided by the departmental office.
Prerequisite(s):
• For students with declared Honours or Major in Anthropology:
  • set by department depending upon topic.
• For students without declared Honours or Major in Anthropology:
  • permission of the program.

ANTH 395  Units: 1.5  Hours: 3-0-0*
Selected Problems in Anthropology: Method and Theory
Presentation of selected problems in anthropology.
* Contact hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of ANTH 395, ANTH 390, ANTH 390A (if taken in the same topic), ANTH 390B (if taken in the same topic), ANTH 390C (if taken in the same topic), ANTH 390D (if taken in the same topic).
• May be taken more than once for credit in different topics.
• Topics information will be provided by the departmental office.
Prerequisite(s):
• For students with declared Honours or Major in Anthropology:
  • set by department depending upon topic.
• For students without declared Honours or Major in Anthropology:
  • permission of the program.

ANTH 396  Units: 1.5  Hours: 3-0-0*
Selected Problems in Anthropology: Linguistic Anthropology
Presentation of selected problems in anthropology.
* Contact hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of ANTH 396, ANTH 390, ANTH 390D (if taken in the same topic).
• May be taken more than once for credit in different topics.
• Topics information will be provided by the departmental office.
Prerequisite(s):
• For students with declared Honours or Major in Anthropology:
  • set by department depending upon topic.
• For students without declared Honours or Major in Anthropology:
  • permission of the program.

ANTH 397  Units: 1.5  Hours: 3-0-0
The Archaeology of Death
Explores themes and issues in the study of mortuary practices including ethical issues, gender and identity, social organization and structure, and spirituality from the Neolithic to the early 20th century, and in numerous cultures from various parts of the globe.
Note: Credit will be granted for only one of ANTH 397, ANTH 392 (if taken in the same topic).
Prerequisite(s): ANTH 240.

ANTH 398  Units: 1.5  Hours: 3-0-0
Life and Death in the Viking World
A detailed look at the nature and impact of the Viking expansion in the North Atlantic (including the British Isles, the Faroes, Iceland, Greenland and North America) in the period defined rather broadly from c. 800-1300 AD. The social and ecological consequences of migration are explored, drawing on a variety of sources including archaeological data, saga literature, and historical sources.
Note: Credit will be granted for only one of ANTH 398, ANTH 392 (if taken in the same topic).
Prerequisite(s): ANTH 240.

ANTH 400A  Units: 1.5  Hours: 3-0-0
History of Anthropological Theory
History and development of the major trends in anthropological theory until the mid-20th century.
Note: Credit will be granted for only one of ANTH 400A, ANTH 400.
Prerequisite(s):
• All of ANTH 200, ANTH 240, ANTH 250 with a minimum GPA of 4.0; and
• minimum fourth-year standing.

ANTH 400B  Units: 1.5  Hours: 3-0-0
Current Trends in Anthropological Theory
Survey of recent developments in anthropological theory.
Note: Credit will be granted for only one of ANTH 400B, ANTH 400.
Prerequisite(s):
• All of ANTH 200, ANTH 240, ANTH 250 with a minimum GPA of 4.0; and
• minimum fourth-year standing.

ANTH 402  Units: 1.5  Hours: 3-0-0
Feminist Theory and Method in Anthropology
The history and development of feminist anthropology; contemporary debates. Emphasis on the contribution of anthropology to feminist theory and of feminist critiques to the development of anthropology.
Note: Credit will be granted for only one of ANTH 402, ANTH 390 (if taken in the same topic).
Prerequisite(s):
• ANTH 200 or
• permission of the program.

ANTH 405  Units: 1.5  Hours: 3-0-0
Advanced Economic Anthropology
A seminar course that examines contemporary problems in economic anthropology and ethnographic approaches to economic action. Themes include globalization, liberalism, neoliberalism, money, finance, development, capitalism, and alternative economies.
Prerequisite(s):
• ANTH 200 or
• permission of the department.
ANTH 408 Units: 1.5 Hours: 3-0-0
Anthropology and Photography
Seminar on photography in anthropology over the late 19th century to present day. Focus on theoretical and methodological use of cameras by anthropologists for research and creative expression. Students learn methods of visual data analysis using archival photographs.
Prerequisite(s): ANTH 309.

ANTH 409 Units: 1.5 Hours: 3-0-0
Applied Ethnographic Film
Seminar-based course focused on visual research and production of ethnographic film. Student teams produce original ethnographic videos using the Visual Media Lab digital cameras and computer editing software and equipment.
Prerequisite(s): ANTH 300 and ANTH 309.
Pre- or Corequisite(s): ANTH 305.

ANTH 410 Units: 1.5 Hours: 3-0-0
Advanced Topics in Medical Anthropology
Examines of one or more research themes in medical anthropology.
Prerequisite(s): ANTH 312.

ANTH 433 Units: 1.5 Hours: 3-0-0
Coast Salish Culture and Contemporary Life
Explores, through ethnographies, how culture is at the heart of debates over land claims, self-government, legal and human rights, and relationships with the environment in contemporary Coast Salish communities.
Note: Credit will be granted for only one of ANTH 433, ANTH 391 (if taken in the same topic), ANTH 393 (if taken in the same topic).
Prerequisite(s): • ANTH 200; or • permission of the program.

ANTH 441 Units: 1.5 Hours: 3-0-0
Archaeological Method and Theory
The strategy of research in archaeology, archaeology as a subdiscipline and its comparison with related fields. Emphasizes theories of research methodology in archaeology as well as the contribution of archaeology to theories of cultural process.
Prerequisite(s): ANTH 240.

ANTH 449 Units: 1.5 Hours: 3-3-0
Anthropology of the Northwest Coast
Study of problems of interpreting Northwest Coast archaeological data. Field trips will be scheduled.
Prerequisite(s): ANTH 240.

ANTH 450 Units: 1.5 Hours: 3-0-0
Advanced Topics in Primate Behavioural Ecology
Seminar-based course focused on in-depth exploration of topics related to primate behavioural ecology such as method and theory in behavioural ecology, feeding ecology, socio-ecology, reproductive ecology. Multi-species comparative approaches will be used.
Note: Credit will be granted for only one of ANTH 450, ANTH 394 (if taken in the same topic).
Prerequisite(s): ANTH 350 or ANTH 350A.

ANTH 452 Units: 1.5 Hours: 3-0-0
Advanced Topics in Human Osteology
Detailed examination of topics relating to the analysis of human skeletal remains. Topics may include: skeletal biology, evolutionary anatomy and forensic osteology.
Note: May be taken more than once for credit in different topics.
Prerequisite(s): ANTH 352.

ANTH 454 Units: 1.5 Hours: 3-0-0
Approaches to Human Bioarchaeology
A seminar course that examines the methodological, theoretical and ethical issues involved in the study of human skeletal remains from archaeological contexts to reconstruct life histories of past populations and individuals.
Note: Credit will be granted for only one of ANTH 454, ANTH 452 (if taken in the same topic).
Prerequisite(s): ANTH 352.

ANTH 455 Units: 1.5 Hours: 3-0-0
Advanced Topics in the Anthropology of HIV/AIDS
Reading in and analysis of specific topics of HIV/AIDS social epidemiology within Canada and internationally including biocultural issues specific to Men Who Have Sex With Men, People Who Use Injection Drugs, Female and Male Sex Workers and their clients; risk compensation, risk perception, treatment optimism, and sexual altruism.
Note: Credit will be granted for only one of ANTH 455, ANTH 394 (if taken in the same topic).
Prerequisite(s): ANTH 355.

ANTH 460 Units: 1.5 Hours: 2-2-0
Ethnographic Mapping and Indigenous Cartographies
Skills-based seminar on land use and occupancy mapping (also called Traditional Use Study mapping) of indigenous territories in respect of land claims and resource rights, and critically evaluating power relations, knowledge practices, and ontologies of ‘counter-mapping’ and other contemporary indigenous cartographies.
Prerequisite(s): ANTH 200 and ANTH 240.
Recommendation(s): One of ANTH 323, ANTH 325, ANTH 330, ANTH 338, ANTH 340 strongly recommended prior to ANTH 460.

ANTH 481 Units: 1.5 Hours: 3-0-0
Seminar in Area Studies
Presentation of selected topics in area studies.
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s): ANTH 200.

ANTH 482 Units: 1.5 Hours: 3-0-0
Seminar in Archaeology
Presentation of selected topics in Archaeology.
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s): ANTH 240.

ANTH 483 Units: 1.5 Hours: 3-0-0
Seminar in Cultural Anthropology
Presentation of selected topics in Cultural Anthropology.
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s): ANTH 200.

ANTH 484 Units: 1.5 Hours: 3-0-0
Seminar in Biological Anthropology
Presentation of selected topics in Biological Anthropology.
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s): ANTH 250.

ANTH 485 Units: 1.5 Hours: 3-0-0
Seminar in Method and Theory
Presentation of selected topics in Method and Theory.
Note: May be taken more than once for credit in different topics with permission of the department.

ANTH 491 Units: 1.5 Hours: 3-0-0
Directed Studies in Anthropology: Area Studies
Individual study of specific research topics in area studies with close collaboration and consent of the department and individual instructor.
Notes:
• Credit will be granted for only one of ANTH 491, ANTH 490 (if taken in the same topic).
• Credit will be granted for only two of ANTH 491, ANTH 492, ANTH 493, ANTH 494, ANTH 495.
Prerequisite(s):
• Minimum fourth-year standing; and
• minimum GPA of 6.5 in 300- and 400-level ANTH courses; and
• minimum cumulative GPA of 5.5; and
• declared Honours or Major in Anthropology.

ANTH 492 Units: 1.5 Hours: 3-0-0
Directed Studies in Anthropology: Archaeology
Individual study of specific research topics in archaeology with close collaboration and consent of the department and individual instructor.
Notes:
• Credit will be granted for only one of ANTH 492, ANTH 490 (if taken in the same topic).
• Credit will be granted for only two of ANTH 492, ANTH 491, ANTH 493, ANTH 494, ANTH 495.
Prerequisite(s):
• Minimum fourth-year standing; and
• minimum GPA of 6.5 in 300- and 400-level ANTH courses; and
• minimum cumulative GPA of 5.5; and
• declared Honours or Major in Anthropology.

ANTH 493 Units: 1.5 Hours: 3-0-0
Directed Studies in Anthropology: Cultural Anthropology
Individual study of specific research topics in cultural anthropology with close collaboration and consent of the department and individual instructor.
Notes:
• Credit will be granted for only one of ANTH 493, ANTH 490 (if taken in the same topic).
• Credit will be granted for only two of ANTH 493, ANTH 491, ANTH 492, ANTH 494, ANTH 495.
Prerequisite(s):
• Minimum fourth-year standing; and
• minimum GPA of 6.5 in 300- and 400-level ANTH courses; and
• minimum cumulative GPA of 5.5; and
• declared Honours or Major in Anthropology.
ANTH 494 | Units: 1.5 | Hours: 3-0-0
Direct Studies in Anthropology: Biological Anthropology
Individual study of specific research topics in biological anthropology with close collaboration and consent of the department and individual instructor.
Notes:
• Credit will be granted for only one of ANTH 494, ANTH 495, ANTH 491, ANTH 492, ANTH 493.

ANTH 495 | Units: 1.5 | Hours: 3-0-0
Directed Studies in Anthropology: Method and Theory
Individual study of specific research topics in method and theory with close collaboration and consent of the department and individual instructor.
Notes:
• Credit will be granted for only one of ANTH 495, ANTH 490, if taken in the same topic.
• Credit will be granted for only two of ANTH 494, ANTH 495, ANTH 491, ANTH 492, ANTH 493.

ANTH 499 | Units: 1.5 | Hours: 3-0-0
Honours Seminar
Integration of current research in physical, social and cultural, linguistic and archaeological anthropology.
Notes:
• Minimum fourth-year standing, and
• Minimum GPA of 6.5 in 300- and 400-level ANTH courses; and
• Minimum cumulative GPA of 5.5; and
• Declared Honours or Major in Anthropology.

ART 100E | Units: 1.5 | Hours: 0-3-0
Studio Foundation
The processes and ideas associated with contemporary art. Students will explore a range of studio practices and theoretical issues.
Notes: ART (E) courses are offered only through the En’owkin Certificate Program in Indigenous Fine Arts.

ART 101E | Units: 1.5 | Hours: 0-3-0
Drawing
An introduction to concerns and methods in contemporary drawing. Students will gain experience in a range of studio practices as well as theoretical issues through projects and critiques.
Notes: ART (E) courses are offered only through the En’owkin Certificate Program in Indigenous Fine Arts.
Pre- or Corequisite(s): ART 100E.

ART 103 | Units: 1.5 | Hours: 0-3-0
Foundation Drawing and Painting
One of four courses forming the foundation year for studies in Visual Arts, this course is divided into two modules. The drawing module introduces the methods, materials and concerns in contemporary drawing through studio exercises and projects. The painting module introduces contemporary painting through studio projects exploring fundamental elements, materials and concepts.
Notes: Priority is given to students registered in the BFA program in Visual Arts. Normally class size is limited.

ART 104 | Units: 1.5 | Hours: 0-3-0
Foundation Sculpture and Material Methods
One of four courses forming the foundation year for studies in Visual Arts, this course focuses on the processes and ideas associated with material technologies in the visual arts and with the practices of contemporary sculpture. Students will explore a range of workshop and studio practices and theoretical issues.
Notes: Priority is given to students registered in the BFA program in Visual Arts. Normally class size is limited.

ART 105 | Units: 1.5 | Hours: 0-3-0
Foundation Photography and Video Art
One of four courses forming the foundation year for studies in Visual Arts, this course focuses on the processes and ideas associated with material technologies in the visual arts and with the practices of contemporary sculpture. Students will explore a range of workshop and studio practices and theoretical issues.
Notes: Priority is given to students registered in the BFA program in Visual Arts. Normally class size is limited.
Pre- or Corequisite(s): ART 106.

ART 106 | Units: 1.5 | Hours: 0-3-0
Foundation Core Media Technologies and Arts
One of four courses forming the foundation year for studies in Visual Arts, this course focuses on the core digital technologies applicable to the visual arts.
Notes: Priority is given to students registered in the BFA program in Visual Arts. Normally class size is limited.

ART 115 | Units: 1.5 | Hours: 0-3-0
Exploring Drawing and Colour
Experiential introduction to a wide range of traditional and contemporary aspects of drawing and colour in two-dimensional form. Explores materials, techniques, practices, theoretical issues and the development of drawing and colour in Visual Art.

ART 116 | Units: 1.5 | Hours: 0-3-0
An Introduction to Documentary Photography
An introductory lecture and experiential course focusing on the practice and ideas associated with documentary photography. Students will gain insight and experience in documentary photography as a practice.
Notes: Open to non-visual arts students and available as an elective for Visual Arts students.

ART 117 | Units: 1.5 | Hours: 0-3-0
An Introduction to Observational Drawing
An introductory lecture and experiential course focusing on the practice and ideas associated with observational drawing. Students will gain insight and experience into observational drawing as a practice.
Notes: Open to non-visual arts students and available as an elective for Visual Arts students.

ART 118 | Units: 1.5 | Hours: 0-3-0
An Introduction to Colour
An introduction to a wide range of traditional and contemporary aspects of colour including hue, lightness and chroma, brightness and saturation and visual perception of colour. Through projects and exercises students will gain insight into colour mixing and the visual effects of colour combinations through projects and exercises.
Notes: Open to non-visual arts students and available as an elective for Visual Arts students.

ART 130E | Units: 1.5 | Hours: 0-3-0
Printmaking
An introductory course in printmaking techniques which will prepare the student for more advanced printmaking courses.
Notes: ART (E) courses are offered only through the En’owkin Certificate Program in Indigenous Fine Arts.
Pre- or Corequisite(s): ART 100E and ART 101E.

ART 141 | Units: 1.5 | Hours: 3-0-0
An Introduction to Contemporary Art Photography
An introductory lecture and practical course focusing on the ideas associated with contemporary art photography. Through lectures which will introduce students to various practices of contemporary photographers and photography assignments, students will gain insight into photography as an art practice within the field of contemporary art.
Notes: Open to non-visual arts students and available as an elective for Visual Arts students.

ART 150 | Units: 1.5 | Hours: 3-0-0
Introduction to Contemporary Art Theory, Criticism and Practice
Introduces the terms and concepts necessary for an understanding of contemporary art.

ART 151 | Units: 1.5 | Hours: 3-0-0
An Introduction to Contemporary Visual Art
A lecture course open to all students. Introduces some of the pertinent subjects and issues within contemporary art today. Uses examples of contemporary art and provides a critical context in which to approach current art practices.
Recommendation(s): Recommended for all Visual Arts students.

ART 201 | Units: 1.5 | Hours: 0-3-0
Drawing
An introduction to concerns and methods in contemporary drawing. Students will gain experience in a range of studio practices as well as theoretical issues through projects and critiques.
Notes:
• Credit will be granted for only one of ART 201, ART 101.
• Normally class size is limited.
Pre- or Corequisite(s): ART 100 or ART 103.
ART 202  Units: 1.5  Hours: 0-3-0
Drawing
A continuation of 201. Students will move towards a more independent way of working.
Notes:
• Credit will be granted for only one of ART 202, ART 200.
• Normally class size is limited.
Prerequisite(s): ART 101 or ART 201.

ART 211  Units: 1.5  Hours: 0-3-0
Painting
A studio introduction to painting and related areas.
Notes:
• Credit will be granted for only one of ART 211, ART 110.
• Normally class size is limited.
Prerequisite(s): ART 100 or ART 103.

ART 212  Units: 1.5  Hours: 0-3-0
Painting
An extension of 211.
Notes:
• Credit will be granted for only one of ART 212, ART 210.
• Normally class size is limited.
Prerequisite(s): ART 110 or ART 211.

ART 221  Units: 1.5  Hours: 0-3-0
Sculpture
An introduction to concerns and methods in contemporary sculpture. Students will experience a broad range of studio practices as well as explore theoretical issues. Short projects and critiques are the standard format for this class.
Notes:
• Credit will be granted for only one of ART 221, ART 120.
• Normally class size is limited.
Prerequisite(s): ART 100 or ART 104.

ART 222  Units: 1.5  Hours: 0-3-0
Sculpture
Continue to develop the study of contemporary sculptural practices, with an increasing focus on the ability to undertake independent work.
Notes:
• Credit will be granted for only one of ART 222, ART 220.
• Normally class size is limited.
Prerequisite(s): One of ART 104, ART 120, ART 221.

ART 241  Units: 1.5  Hours: 0-3-0
Photography
An introduction to analog black and white photography. Students will learn basic camera techniques and darkroom procedures as well as being given projects that explore contemporary issues in art photography.
Notes:
• Credit will be granted for only one of ART 241, ART 140.
• Students must supply their own SLR manual camera with a 50 mm lens. Digital cameras are not accepted for this course.
• Normally class size is limited.
Prerequisite(s): ART 100 or ART 105.

ART 242  Units: 1.5  Hours: 0-3-0
Photography
A continuation of 241, including both practical and theoretical aspects of digital and film-based contemporary art photography.
Notes:
• Credit will be granted for only one of ART 242, ART 240.
• Students must supply their own digital or analogue camera.
• Normally class size is limited.
Prerequisite(s): ART 140 or ART 241.

ART 250  Units: 1.5  Hours: 3-0-0
Modernism and Postmodernism
A lecture course that will survey some conditions that distinguish modernism from postmodernism and consider pertinent theoretical positions.

ART 261  Units: 1.5  Hours: 0-3-0
Digital Media Arts I
Introduction to the concerns and methods of contemporary digital art practice. Focuses on the use of digital technology in the manipulation of images, multi-channel audio installations and animation.
Note: Credit will be granted for only one of ART 261, ART 160
Prerequisite(s): ART 100 or ART 106.

ART 262  Units: 1.5  Hours: 0-3-0
Digital Media Arts II
Exploration of contemporary art practice using digital technology for 3D modelling, interactive installations and performance. Emphasizes how to convey and structure artistic ideas through digital media.
Note: Credit will be granted for only one of ART 262, ART 260.
Prerequisite(s): ART 160 or ART 261.

ART 271  Units: 1.5  Hours: 0-3-0
Video Art
An introduction to the basic technical and aesthetic concepts in video production. The film and video works of contemporary artists will be explored.
Notes:
• Credit will be granted for only one of ART 271, ART 170.
• Normally class size is limited.
Prerequisite(s): ART 100 or ART 105.

ART 272  Units: 1.5  Hours: 0-3-0
Video Art
A continuation of 271; alternative imaging concepts, projection systems, computer displays and installation techniques will be discussed. Video will be dealt with as an extension of a contemporary art practice.
Notes:
• Credit will be granted for only one of ART 272, ART 270.
• Normally class size is limited.
Prerequisite(s): ART 170 or ART 271.

ART 300  Units: 3.0  Hours: 0-3-0
Drawing
Advanced course in drawing.
Notes:
• May be taken more than once for credit to a maximum of 9 units.
• Concurrent registration in two sections of ART 300 is permitted, normally with two different instructors.
• Normally class size is limited.
Prerequisite(s): • ART 150; and  • ART 260 or ART 202.

ART 306  Units: 6.0  Hours: 1.5-4.5-0
Studies in Drawing, Photo, Media and Interdisciplinary Practice
Intermediate application of conceptual, technical and creative skills in the independent research and production of self-directed projects in the areas of drawing, photo, digital media and interdisciplinary practices. Understanding that academic explorations are linked with art practice, students will explore the contextualization of their work in relation to significant areas of contemporary thought. Team taught by faculty from Visual Arts and other disciplines, this course includes both studio and seminar components.
Prerequisite(s): • 9 units of 200-level Visual Arts courses; and  • permission of the department.

ART 310  Units: 3.0  Hours: 0-3-0
Painting
Advanced course in painting.
Notes:
• May be taken more than once for credit to a maximum of 9 units.
• Concurrent registration in two sections of ART 310 is permitted, normally with two different instructors.
• Normally class size is limited.
Prerequisite(s): • ART 150; and  • ART 210 or ART 212.

ART 320  Units: 3.0  Hours: 0-3-0
Sculpture
Advanced course in sculpture.
Notes:
• May be taken more than once for credit to a maximum of 9 units.
• Concurrent registration in two sections of ART 320 is permitted, normally with two different instructors.
• Normally class size is limited.
Prerequisite(s): • ART 150; and  • one of ART 220, ART 221, ART 222.

ART 334  Units: 3.0  Hours: 0-3-0
Multi-Media Printmaking
A studio course placing emphasis on the use of a variety of media in printmaking.
Notes:
• May be taken more than once for credit with permission of the department to a maximum of 6 units.
• Class size is limited.
Prerequisite(s): 9 units of 200-level ART courses.
ART 340  Units: 3.0  Hours: 0-3-0
Photography
The development of more advanced skills in digital and/or film-based technologies as well as independent research and production as they pertain to contemporary art photography.

Notes:
•  May be taken more than once for credit to a maximum of 9 units.
•  Concurrent registration in two sections of ART 340 is permitted, normally with two different instructors.
•  Students must have their own digital or analogue SLR camera.
•  Normally class size is limited.

Prerequisite(s):
•  ART 150, and
•  ART 240 or ART 242.

ART 351  Units: 1.5 or 3.0  Hours: 0-3-0
Special Studies
The study of a specialized topic or area and its relationship to practice.

Notes:
•  May be taken more than once for credit in different topics.
•  Normally class size is limited.

Prerequisite(s):
•  12 units of 100- or 200-level ART courses; or permission of the department.

ART 352  Units: 1.5 or 3.0  Hours: 0-3-0
Audain Studio Seminar
This course will be led by the Audain Professor of Contemporary Art Practice of the Pacific Northwest, course content will vary in accord with the area of expertise of the Audain Professor.

Notes:
•  May be taken more than once for credit with permission of the department to a maximum of 6 units.
•  Normally class size is limited.

Prerequisite(s):
•  12 units of 100- or 200-level ART courses; or permission of the department.

ART 353  Units: 1.5  Hours: 3-0-0
Visiting Artist Talk Series
An introduction to contemporary art through presentations by practising artists from Canada and abroad working and exhibiting in the field today.

Notes:
•  May be taken more than once for credit with permission of the department to a maximum of 3 units.
•  Credit for this course cannot be counted toward the Minor in Visual Arts.

Grading: COM, N, F.

ART 360  Units: 3.0  Hours: 0-3-0
Extended Media Practices
This course extends the dialogue and techniques of ART 260 and 261 with a special focus on the application and effect of new technologies on contemporary practices, the hybridization of long-standing traditional and intermedia disciplines such as sound, performance, light and those conceptual practices that lie outside of traditional artmaking.

Notes:
•  May be taken more than once for credit in different topics with permission of the department to a maximum of 9 units.
•  Concurrent registration in two sections of ART 360 is permitted, normally with two different instructors.
•  Normally class size is limited.

Prerequisite(s):
•  ART 150, and
•  ART 260 or ART 262.

ART 370  Units: 3.0  Hours: 0-3-0
Video Art
Advanced course in video art.

Notes:
•  May be taken more than once for credit to a maximum of 9 units.
•  Concurrent registration in two sections of ART 370 is permitted, normally with two different instructors.
•  Normally class size is limited.

Prerequisite(s):
•  ART 150, and
•  ART 270 or ART 272.

ART 380  Units: 3.0  Hours: 0-3-0
Curatorial Direction
Using the resources of the Visual Arts Department, students will learn to develop ideas around the exhibition of works of art. This may include organizing thematic group shows, solo exhibitions, promotion, cataloguing, presentation and fundraising.

Note: Normally class size is limited.

Prerequisite(s):
•  ART 150 and 9 units of 200-level ART courses.

ART 385  Units: 1.5-4.5  Hours: 0-3-0
Interdisciplinary Practices
Advanced application of conceptual, technical and creative skills in the independent research and production of self directed projects in the areas of drawing, photo, digital media and interdisciplinary practices. Understanding that academic explorations are linked with art practice, students will explore the contextualization of their work in relation to significant areas of contemporary thought. Team taught by faculty from Visual Arts and other disciplines, this course includes both studio and seminar components.

Prerequisite(s):
•  9 units of 300-level Visual Arts studio courses; and
•  permission of the department.

Recommendation(s):
•  ART 306 recommended prior to ART 406.

ART 401  Units: 3.0  Hours: 0-3-0
BFA Exhibition and Professional Practices
Culminating experience for graduating Visual Arts students. Hands-on engagement in the professional practices of organizing a large high profile public exhibition, as well as the practical skills of art documentation, organizing and funding a catalogue, event planning and promotion, publicity, art handling, exhibition space preparation, and the professional installation and lighting of artworks.

Note: Mandatory for Visual Arts Honours but can be taken for credit by Visual Arts Majors.

Grading: COM, N, F.

ART 406  Units: 9.0  Hours: 1.5-7.5-0
Studies in Drawing, Photo, Media and Interdisciplinary Practices
Advanced application of conceptual, technical and creative skills in the independent research and production of self directed projects in the areas of drawing, photo, digital media and interdisciplinary practices. Understanding that academic explorations are linked with art practice, students will explore the contextualization of their work in relation to significant areas of contemporary thought. Team taught by faculty from Visual Arts and other disciplines, this course includes both studio and seminar components.

Prerequisite(s):
•  9 units of 300-level Visual Arts studio courses; and
•  permission of the department.

Recommendation(s):
•  ART 306 recommended prior to ART 406.

ART 490  Units: 1.5 or 3.0
Directed Studies
This course is for advanced students who have a shared field of interest with a particular instructor. Students are expected to have a well-developed proposal prepared in order to apply to an instructor for supervision.

Notes:
•  May be taken more than once for credit in different topics to a maximum of 3 units.
•  Students who have completed 6 units of credit in the specialized area of study (at least 3 units of which must be at the third-year level) may request permission to register in the course.
•  It is the expectation that, as well as the weekly conference time with their adviser, students will spend a minimum of 3 hours per week in the studio.
•  Students may not take a third-year course and a directed studies with the same instructor in the same discipline in the same year.

Prerequisite(s):
•  Declared Honours or Major in Visual Arts; and
•  permission of the department.
### ART 495 - ASTR 250

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| ART 495 | 9.0 | 1.5-7.5-0 | Visual Structures in the Imaginative Realm II  
Enhanced education for the creation of objects and images within a studio context. Sculpture, painting and installation form core areas within a broad experimental approach. Cross-disciplinary knowledge and the relationship of studio production to the built environment will guide students towards specific outcomes, including a portfolio for those continuing to professional practices or to graduate studies in visual art, design or architecture. Team taught by faculty from Visual Arts and other disciplines, includes seminar component.  
Prerequisite(s):  
• 9 units of 300-level Visual Arts studio courses; and  
• permission of the department.  
Recommendation(s): ART 395 recommended prior to ART 495. |
| ASTR 250 | 1.5 | 3-3-0 | Introduction to Astrophysics  
Provides the physical foundation and introduction of astronomical terminology that is used in subsequent courses. Topics include astronomical coordinate systems, telescopes, stellar distances and magnitudes, binary stars, spectral classification, stellar evolution, variable stars, stellar motions, star clusters, interstellar medium, structure and rotation of the galaxy, external galaxies.  
Note: Credit will be granted for only one of ASTR 250, ASTR 270. |

### ARTS

#### Faculty of Humanities

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| ARTS 190 | 1.5 | 4-0-0 | American Sign Language I  
Introduction to language used by the Deaf community in North America, no prior knowledge required. Covers essentials of grammar, basic vocabulary and fundamental structures for everyday interaction; provides insight into the Deaf community and Deaf culture. |
| ARTS 290 | 1.5 | 4-0-0 | American Sign Language II  
Emphasis on increasing vocabulary, skills applying grammatical features, facial expression and receptive and expressive signing.  
Prerequisite(s): ASL 100A. |
| ARTS 390 | 1.5 | 1.5 | American Sign Language III  
Providing essentials of fundamental structures for everyday interaction. Develops appropriate grammatical features and facial grammar including non-manual signals in addition to receptive and expressive signing skills. Presents insight into the Deaf community and Deaf Culture.  
Prerequisite(s): ASL 100B. |
| ARTS 290 | 1.5 | 4-0-0 | American Sign Language IV  
Develops vocabulary and appropriate signing registers as well as skills for roleshifting and point of view when narrating in sign language, including the use of three-dimensional space and placement. Builds knowledge and understanding of Deaf culture.  
Prerequisite(s): ASL 200A. |
| ARTS 390 | 1.5 | 4-0-0 | American Sign Language V  
Intermediate-level ASL. Develops skills in communicating complex concepts using appropriate grammatical structures. Emphasizes the use of directionality, placement and three-dimensional space in conjunction with roleshifting and the refinement of expressive and receptive skills. Continues to expand the knowledge and understanding of Deaf culture.  
Prerequisite(s): ASL 300A. |
| ARTS 290 | 1.5 | 4-0-0 | American Sign Language VI  
Focus on the production of classifiers, other complex grammatical structures and non-manual signals with an aim to achieve fluidity and fluency in narration. Practice in both formal and informal registers. Includes cross-cultural discussions of issues facing the Deaf community and non-Deaf signers.  
Prerequisite(s): ASL 300B. |

### ASTR

#### Astronomy

Department of Physics and Astronomy

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| ASTR 101 | 1.5 | 3-3-0 | Exploring the Cosmos  
A general course designed for non-science students. An exploration of how astronomical observations guide and challenge our understanding of the fundamental laws of nature. Cosmology, and the elusive dark matter and dark energy that determine the universe’s fate. Stars, galaxies, and relics left over by the Big Bang. Black holes and relativity; supernovae and neutron stars. Practical work includes observations with campus telescopes.  
Note: Credit will be granted for only one of ASTR 102, ASTR 250. |
| ASTR 200A | 1.5 | 1.5 | American Sign Language VII  
Formerly part of ASTR 300  
Enhanced education for the creation of objects and images within a studio context. Sculpture, painting and installation form core areas within a broad experimental approach. Cross-disciplinary knowledge and the relationship of studio production to the built environment will guide students towards specific outcomes, including a portfolio for those continuing to professional practices or to graduate studies in visual art, design or architecture. Team taught by faculty from Visual Arts and other disciplines, includes seminar component.  
Prerequisite(s):  
• 9 units of 300-level Visual Arts studio courses; and  
• permission of the department.  
Recommendation(s): ART 395 recommended prior to ART 495. |
| ASTR 300A | 1.5 | 1.5 | American Sign Language VIII  
Formerly part of ASTR 300  
Enhanced education for the creation of objects and images within a studio context. Sculpture, painting and installation form core areas within a broad experimental approach. Cross-disciplinary knowledge and the relationship of studio production to the built environment will guide students towards specific outcomes, including a portfolio for those continuing to professional practices or to graduate studies in visual art, design or architecture. Team taught by faculty from Visual Arts and other disciplines, includes seminar component.  
Prerequisite(s):  
• 9 units of 300-level Visual Arts studio courses; and  
• permission of the department.  
Recommendation(s): ART 395 recommended prior to ART 495. |
| ASTR 200B | 1.5 | 1.5 | American Sign Language IX  
Formerly part of ASTR 300  
Enhanced education for the creation of objects and images within a studio context. Sculpture, painting and installation form core areas within a broad experimental approach. Cross-disciplinary knowledge and the relationship of studio production to the built environment will guide students towards specific outcomes, including a portfolio for those continuing to professional practices or to graduate studies in visual art, design or architecture. Team taught by faculty from Visual Arts and other disciplines, includes seminar component.  
Prerequisite(s):  
• 9 units of 300-level Visual Arts studio courses; and  
• permission of the department.  
Recommendation(s): ART 395 recommended prior to ART 495. |
| ASTR 300B | 1.5 | 1.5 | American Sign Language X  
Formerly part of ASTR 300  
Enhanced education for the creation of objects and images within a studio context. Sculpture, painting and installation form core areas within a broad experimental approach. Cross-disciplinary knowledge and the relationship of studio production to the built environment will guide students towards specific outcomes, including a portfolio for those continuing to professional practices or to graduate studies in visual art, design or architecture. Team taught by faculty from Visual Arts and other disciplines, includes seminar component.  
Prerequisite(s):  
• 9 units of 300-level Visual Arts studio courses; and  
• permission of the department.  
Recommendation(s): ART 395 recommended prior to ART 495. |
ASTR 255 Units: 1.5 Hours: 3-0-0
Introduction to Planetary Science
An overview of the study of planetary systems. The main focus is on our Solar System, but the course includes the study of planets outside the Solar System. Topics include basic planet formation, planetary orbits, measurements of the properties of planets, study of extrasolar planets, the Earth-Moon system.
Note: Credit will be granted for only one of ASTR 255, ASTR 304.
Pre- or Corequisite(s): All of ASTR 250, PHYS 215, PHYS 216.

ASTR 303 Units: 1.5 Hours: 3-0-0
Introductory Extragalactic Astronomy
Kinematics and morphology of spiral (including the Milky Way), elliptical and irregular galaxies. Introduction to current theory for the formation and evolution of galaxies and the large-scale structure. Observations of active galactic nuclei, jets and quasi-stellar objects.
Prerequisite(s): All of ASTR 250, PHYS 215, PHYS 216.
Pre- or Corequisite(s): PHYS 217 or PHYS 317.

ASTR 329 Units: 1.5 Hours: 0-6-0
Formerly ASTR 429A
Introduction to Observational Astronomy
Introduction to observational and data analysis techniques in Astronomy. Observational and practical work, directed reading.
Note: Credit will be granted for only one of ASTR 329, ASTR 429A.
Prerequisite(s): ASTR 250.

ASTR 403 Units: 1.5 Hours: 3-0-0
Introduction to Astrophysical Processes
Topics may include: fundamentals of radiative transfer; radiation processes (e.g., bremsstrahlung, synchrotron radiation, Compton scattering); atomic and molecular spectra; the basics of plasma physics, gas dynamics (e.g., shocks, accretion flows and winds); collisional processes (ionization, excitation); photo-ionization; line transfer effects (e.g., fluorescence, charge exchange).
Prerequisite(s):
- All of ASTR 250, PHYS 323, PHYS 326; and
- PHYS 217 or PHYS 317.
Pre- or Corequisite(s): One of PHYS 301, MATH 342, MATH 346.
Recommendation(s): ASTR 303 strongly recommended prior to ASTR 403.

ASTR 404 Units: 1.5 Hours: 3-0-0
Introduction to Stellar Astrophysics
The structure and evolution of stars, stellar atmospheres, the production of stellar spectra, interstellar matter.
Prerequisite(s):
- All of ASTR 250, PHYS 323, PHYS 326; and
- PHYS 217 or PHYS 317.
Pre- or Corequisite(s): MATH 346.

ASTR 405 Units: 1.5 Hours: 3-0-0
Introduction to Cosmology
Observations and theory of the expanding universe; the cosmic microwave background and observations of light nuclear elements; the growth of structure leading to the creation of stars and galaxies; studies of dark matter and dark energy; the impact of galaxy evolution on observational cosmology.
Prerequisite(s): ASTR 250.
Pre- or Corequisite(s): MATH 346.
Recommendation(s): ASTR 303 strongly recommended prior to ASTR 405.

ASTR 490 Units: 1.0-3.0
Directed Studies
Prerequisite(s): Permission of the department.
BCMB 489 Units: 1.5 Hours: 3-0-0
Special Topics in Biochemistry or Microbiology
Occasional offerings dealing with a specific aspect of biochemistry or microbiology.
Note: May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Minimum fourth-year standing in the Biochemistry or Microbiology program; or
• permission of the department.

BCMB 498 Units: 0 Hours: 0-6-0
Research Experience
Experimental research under the direction of department members. For fourth-year students who wish to gain some experience in biochemical or microbiological research. Interested students should contact the course coordinator by the first week of classes.
Prerequisite(s): Permission of the department.
Grading: COM, N, F.

BCMB 499A Units: 1.5 Hours: 1-0-0
Formerly: BIOC 499A or MICR 499A, part of BIOC 499 or MICR 499
Undergraduate Thesis I
The first stage of a research project conducted under the direction of a faculty member.
Notes:
• Credit will be granted for only one of BCMB 499A, BCMB 499B, BIOC 499, BIOC 499A, BIOC 499B, MICR 499, MICR 499A, MICR 499B.
• Open to Honours students only.
• BCMB 499A and BCMB 499B are "tied" courses and must be taken in consecutive terms except with permission of the department.
• Students are required to attend departmental seminars.
Prerequisite(s): Permission of the department.
Grading: INP, standard grade (assigned upon completion of 499B, if 499B is not completed, a grade equivalent to N will be assigned to 499A).

BCMB 499B Units: 1.5 Hours: 1-0-0
Formerly: BIOC 499B or MICR 499B, part of BIOC 499 or MICR 499
Undergraduate Thesis II
Continuation of a research project conducted under the direction of a faculty member.
Notes:
• Credit will be granted for only one of BCMB 499B, BCMB 499A, BIOC 499, BIOC 499A, BIOC 499B, MICR 499, MICR 499A, MICR 499B.
• Open to Honours students only.
• BCMB 499A and BCMB 499B are "tied" courses and must be taken in consecutive terms except with permission of the department.
• Credit for BCMB 499A will be assigned only upon successful completion of BCMB 499B.
• Students are required to attend departmental seminars.
Prerequisite(s): BCMB 499A.

BIOC 102 Units: 1.5 Hours: 3-0-0
Biochemistry and Human Health
An introduction to current issues related to human health and disease and approaches taken by biomedical scientists in response to them. Cancer, autoimmune diseases, and coronary heart disease; the concept of risk factors, infectious diseases, e.g., AIDS, dysentery, tuberculosis, and parasitic infections; human nutrition, food safety and preservation, and their relation to health and world food shortages. Strategies for disease treatment, e.g., animal cloning, gene therapy, genetic engineering, vaccination, and the development of new pharmaceuticals such as human hormones; controversies associated with each strategy.
Note: Not open for credit to students registered in BIOC 300A or BIOC 300B, or with credit in a third-year BIOC or BIOC course.

BIOC 299 Units: 1.5 Hours: 3-0-0
Biochemistry for Non-Majors
An introduction to the concepts of biochemistry intended for students not majoring in biochemistry or microbiology. Properties of bio-molecules, basic enzymology and metabolism. Bioenergetics, nucleic acid structure and synthesis. Protein synthesis. Structure and properties of membranes.
Notes:
• Credit will be granted for only one of BIOC 299, BIOC 200.
• Not open for credit to students registered in, or with credit in any third-year BIOC course.
• Students without a background in cell biology may find they are required to do additional reading to fully understand some aspects of this course.
Prerequisite(s): CHEM 231.

BIOC 300A Units: 1.5 Hours: 3-0-0
General Biochemistry I
BIOC 300A and 300B are intended to provide detailed coverage of foundation topics for students majoring in biochemistry or microbiology and must be taken sequentially. Protein structure and function, enzymes and enzyme kinetics, carbohydrates, lipids, biological membranes and bioenergetics.
Note: Credit will be granted for only one of BIOC 300A, BIOC 300.
Prerequisite(s):
• BIOC 225 or BME 200; and
• CHEM 231; and
• one of CHEM 232, CHEM 234, CHEM 235.
Recommendation(s): A minimum grade of C+ in all prerequisites recommended.

BIOC 300B Units: 1.5 Hours: 3-0-0
General Biochemistry II
BIOC 300A and 300B are intended to provide detailed coverage of foundation topics for students majoring in biochemistry or microbiology. Metabolic processes and their control, as well as structure and function of DNA, RNA and genes.
Note: Credit will be granted for only one of BIOC 300B, BIOC 300.
Prerequisite(s):
• All of BIOC 300A, BIOC 225, CHEM 231; and
• one of CHEM 232, CHEM 234, CHEM 235.
Recommendation(s): A minimum grade of C+ in all prerequisites recommended.

BIOC 401 Units: 1.5 Hours: 3-0-0
Gene Expression in Eukaryotes
An advanced study of gene expression in eukaryotes. Topics will include gene structure, transcription systems, post-transcriptional processing, and regulation of transcription, post-transcription and translation.
Prerequisite(s): BIOC 300A and BIOC 300B.

BIOC 403 Units: 1.5 Hours: 3-0-0
Biochemistry of Signal Transduction
The biochemical basis of the transmission of molecular signals from a cell’s exterior to its interior to bring about changes in cellular behavior and gene expression. Topics will include membrane lipids, signal protein modulation and cell migration.
Prerequisite(s): BIOC 300A and BIOC 300B.

BIOC 404 Units: 1.5 Hours: 3-0-0
Proteins
Detailed examination of protein structure and function emphasizing techniques for the determination of protein structure and the study of protein interactions in binding and catalysis. Consists of formal lectures in addition to required readings.
Prerequisite(s): BIOC 300A and BIOC 300B.

BIOC 408 Units: 1.5 Hours: 3-0-0
Epigenetic Regulation of Chromatin
An advanced study of chemical modifications of the chromatin fibre. Topics will include chromatin organization, histone post-translational modifications, histone variants, and DNA methylation. A special emphasis on epigenetics in gene regulation and nuclear metabolism with a discussion of current literature highlighting the role of epigenetics in human disease.
Prerequisite(s): BIOC 300A and BIOC 300B.

BIOC 409 Units: 1.5 Hours: 3-0-0
Proteomics
Introduction to mass spectrometry for biological applications. Includes: system architecture; analytical strategies for the detection, characterisation and quantification of proteins; identification and localization of protein post-translational modifications; application of proteomics methods to drug development and clinical screening; use of proteomics for determining and characterising molecular interactions
Note: Credit will be granted for only one of BIOC 409, BCMB 489 (if taken in Jan 2013 - Apr 2014).
Prerequisite(s): BIOC 300A and BIOC 300B.
### BIOL 150A Units: 1.5 Hours: 3-0-0

**Modern Biology**

An introduction to biological science, emphasizing the diversity of living organisms and the evolutionary and ecological principles underlying this diversity. Topics include the history of life on earth, mechanisms of evolution, and the ecology of populations, communities and ecosystems (including human ecology).

**Notes:**
- Not open to students with credit in any of BIOL 150, BIOL 184, BIOL 186, BIOL 190A, BIOL 190B.
- BIOL 150A and BIOL 150B may be taken in any order.
- BIOL 150A cannot be taken concurrently with any of BIOL 184, BIOL 186.
- Major and Honours students, see “Notes on Course Requirements”.

### BIOL 150B Units: 1.5 Hours: 3-0-0

**Modern Biology**

An introduction to biological science, emphasizing cellular and physiological processes. Topics include principles of genetics, cell biology, plant physiology and animal physiology.

**Notes:**
- Not open to students with credit in any of BIOL 150, BIOL 184, BIOL 186, BIOL 190A, BIOL 190B.
- BIOL 150A and BIOL 150B may be taken in any order.
- BIOL 150B cannot be taken concurrently with any of BIOL 184, BIOL 186.
- Major and Honours students, see “Notes on Course Requirements”.

### BIOL 184 Units: 1.5 Hours: 3-3-0

**Evolution and Biodiversity**

An introductory course in the biological sciences. Evolutionary theory, Mendelian genetics, mitosis and the cell cycle, meiosis and sexual life cycles, and diversity of prokaryotes, protists, plants, fungi, invertebrates and craniates.

**Notes:**
- Credit will be granted for only one of BIOL 184, BIOL 190B.
- BIOL 184 and BIOL 186 may be taken in any order.
- Students who have passed a placement exam may request permission to register in the course.

**Prerequisite(s):**
- One of BIOL 150A, BIOL 150B, BIOL 184, Biology 11, Biology 12, or permission of the department.

### BIOL 186 Units: 1.5 Hours: 3-3-0

**Physiology and Cell Biology**

An introductory course in the biological sciences. Biological chemistry, cellular diversity, membrane structure and function, energy transduction, DNA replication. Structure, growth, nutrition, and development of plants; principles of animal physiology including homeostatic mechanisms, circulation, gas exchange, osmoregulation, thermoregulation, defense systems, chemical signalling, reproduction and development.

**Notes:**
- Credit will be granted for only one of BIOL 186, BIOL 190A.
- BIOL 184 and BIOL 186 may be taken in any order.
- Students who have passed a placement exam may request permission to register in the course.

**Prerequisite(s):**
- One of BIOL 150A, BIOL 150B, BIOL 184, Biology 11, Biology 12, or permission of the department.

### BIOL 215 Units: 1.5 Hours: 3-3-0

**Principles of Ecology**

An introduction to factors controlling the distribution and abundance of plants and animals. Physical environments of organisms; biotic environments and interactions among species; factors influencing population growth; behavioural ecology; community ecology; succession, trophic levels and energy flow; island biogeography; biodiversity; human impact on global ecology; conservation ecology.

**Note:** Credit will be granted for only one of BIOL 215, BIOL 306.

**Prerequisite(s):**
- BIOL 184 or BIOL 190B, and
- BIOL 186 or BIOL 190A, or permission of the department.

### BIOL 225 Units: 1.5 Hours: 3-3-0

**Principles of Cell Biology**

An introduction to cellular, subcellular, and molecular structure/function relationships in eukaryotic cells. Membrane structure and dynamics, membrane transport, protein sorting, vesicular transport, endocytic pathways, extracellular matrices, interactions with the cellular and acellular environments, endomembrane system, cytoskeleton and motility, cellular reproduction, mechanisms of cell signalling, techniques in cell biology.

**Note:** Credit will be granted for only one of BIOL 225, BIOL 200.

**Prerequisite(s):**
- BIOL 186 or BIOL 190A, or permission of the department.

**Pre- or Corequisite(s):**
- One of BIOL 184, BIOL 190B, MICR 200A, or permission of the department.

### BIOL 230 Units: 1.5 Hours: 3-3-0

**Principles of Genetics**

Introduction to principles of inheritance. Classical genetic theory; meiosis, mitosis, recombination, population genetics and evolution, genotype, phenotype, random assortment, dominance, DNA structure, function, replication and molecular basis of inheritance. RNA and protein synthesis, regulation of transcription and gene organization. Introduction to DNA technologies.

**Note:** Credit will be granted for only one of BIOL 230, BIOL 300.

**Prerequisite(s):** BIOL 225.

**Pre- or Corequisite(s):** CHEM 231.

**Recommendation(s):** BIOC 299 recommended prior to BIOL 230.

### BIOL 248 Units: 1.5 Hours: 3-0-0

**Topics in Organismal Biology**

Special topics demonstrating how the functioning of whole organisms can be understood by integrating multiple levels of biological organization. Includes topics dealing with both plants and animals.

**Note:** Not open to students with third- or fourth-year standing.

**Prerequisite(s):**
- BIOL 186 with a minimum grade of C+ or BIOL 190A with a minimum grade of C+.
- one of BIOL 184, BIOL 190B, MICR 200A.

### BIOL 307 Units: 1.5 Hours: 3-3-0

**Chordate Zoology**

Chordates: evolutionary history and adaptations. Major taxonomic groups, with emphasis on derived and defining characteristics; locomotion, feeding, sensory systems and reproduction. Laboratory exercises include observations of prepared specimens, dissections, written assignments and oral presentations.

**Note:** Credit will be granted for only one of BIOL 307, BIOL 207.

**Prerequisite(s):**
- BIOL 184 or BIOL 190B; and
- BIOL 186 or BIOL 190A.
BIOL 309 - Units: 1.5 - Hours: 3-3-0
**Developmental Biology**
Cellular and molecular mechanisms underlying animal development: fertilization, gastrulation, body axis formation and patterning, formation of the eye, nervous system, neural crest, limb, germ cells and gonads. Emphasis on human developmental disorders, experimental design and hypothesis testing. Laboratory is divided into wet labs (model organisms and embryological techniques) and dry labs (analysis of primary literature).
Prerequisite(s): One of BIOL 225 and BIOL 299, BIOL 230, BIOL 300B.

BIOL 311 - Units: 1.5 - Hours: 3-3-0
Also: E05 311
**Biological Oceanography**
An introduction to the ways in which physical, chemical and biological processes interact to regulate structure and productivity of marine ecosystems. Lectures will focus primarily on planktonic ecosystems. Participation in a one-day oceanographic cruise is required.
Note: Credit will be granted for only one of BIOL 311, BIOL 311B, E05 311
Prerequisite(s): • CHEM 101 or CHEM 150, and
• CHEM 102, and
• two of MATH 100, MATH 101, MATH 102, MATH 109, MATH 151, and
• one of PHYS 102, PHYS 102A and PHYS 102B, PHYS 110, and PHYS 111, PHYS 120 and PHYS 130; and
• minimum third-year standing.
Recommendation(s): BIOL 215 and E05 110 recommended prior to BIOL 311.

BIOL 312 - Units: 1.5 - Hours: 3-3-0
**Entomology**
The study of insects, focusing on phylogenetics, ecology and evolution. Topics include: medical entomology, plant-insect interactions, and social insects. The lab focuses on insect identification and collecting techniques.
Prerequisite(s): • Either BIOL 184 and BIOL 190, or BIOL 190B; and
• BIOL 215.

BIOL 319 - Units: 1.5 - Hours: 3-3-0
**Marine Ecology**
The agents that control the distribution of organisms and structure of marine communities, including the influence of environmental conditions on plant and animal populations, organic matter and nutrient cycling, consumer dynamics and competition, community stability and diversity.
Prerequisite(s): • BIOL 215 and BIOL 321, and
• STAT 253 or STAT 260.

BIOL 321 - Units: 1.5 - Hours: 3-3-0
**Survey of Invertebrates**
Invertebrate diversity in an evolutionary perspective. Morphology, life histories, phylogeny and upper level systematics; selected aspects of behaviour and physiology. Laboratory exercises include study of live and preserved specimens.
Note: Credit will be granted for only one of BIOL 321, BIOL 206.
Prerequisite(s): • BIOL 186 or BIOL 190A, and
• BIOL 184 or BIOL 190B, and
• BIOL 225.

BIOL 322 - Units: 1.5 - Hours: 3-3-0
**Biology of Marine Invertebrates**
Selected functional categories of invertebrate adaptations. In particular: defensive adaptations, adaptations related to feeding and nutrition, symbiotic relationships, musculoskeletal systems, and reproductive and developmental adaptations. Emphasis is on interpretation of data from the published literature. Laboratory exercises involve study of live material and will include observations on behaviour, larval types, and anatomy as exposed by dissections.
Prerequisite(s): BIOL 321.

BIOL 324 - Units: 1.5 - Hours: 3-3-0
**Biology of Land Plants**
Plant diversity in an evolutionary perspective. Anatomy, morphology, phylogeny and ecology of bryophytes, pteridophytes, gymnosperms and angiosperms. Laboratories emphasize local plants and include field trips.
Note: Credit will be granted for only one of BIOL 324, BIOL 204.
Prerequisite(s): • BIOL 184 or BIOL 190B; and
• BIOL 186 or BIOL 190A.

BIOL 325 - Units: 1.5 - Hours: 3-3-0
**Tree Biology**
The unique features and specialized adaptations of trees. Tree physiology, cell biology, morphology and anatomy. Laboratory exercises and field trips will reinforce lecture concepts.
Prerequisite(s): BIOL 225 with a minimum grade of B.

BIOL 326 - Units: 1.5 - Hours: 3-3-0
**Development and Genetics of Model Plants**
The genetic basis of anatomy, development, physiology and ecology in model plants such as poplar and Arabidopsis. Labs will emphasize phenotypic and genetic analysis of plant mutants.
Prerequisite(s): All of BIOL 215, BIOL 225, BIOL 230.

BIOL 329 - Units: 1.5 - Hours: 3-3-0
**Biology of the Vertebrates of British Columbia**
Factors that influence the organization, distribution, and diversity of vertebrates in BC. Topics include: natural history, systematics, sample design, biodiversity, and conservation initiatives. Course goals are to appreciate the diversity of vertebrates and understand life histories and species-at-risk issues. The lab will focus on identification of over 400 species of vertebrates by using calls, digital images, and study skins. Optional field trips. Attendance at the Annual Vertebrate Symposium is mandatory.
Prerequisite(s): • BIOL 215, and
• minimum third-year standing.

BIOL 330 - Units: 1.5 - Hours: 3-3-0
Also: ES 344
**Study Design and Data Analysis**
An introduction to the statistical analysis of biological data, experimental design, and sampling design. Laboratories emphasize computer-based analysis of selected data sets as well as a major research project.
Note: Credit will be granted for only one of BIOL 330, ES 310, ES 344.
Prerequisite(s): • STAT 255 or STAT 260; and
• minimum third-year standing.
Pre- or Corequisite(s): BIOL 215.
Recommendation(s): STAT 256 recommended prior to BIOL 330.

BIOL 334 - Units: 1.5 - Hours: 3-0-0
**Plants and People**
Plants as sources of food, fibre, drugs, and industrial raw materials from historical and contemporary perspectives. Aspects of plant growth, development, physiology, genetics and pathology, particularly as they relate to the economic uses of plants.
Note: Credit for this course will not be counted toward degree programs in Biology, but Biology students may take this course as an elective.
Prerequisite(s): Minimum third-year standing.

BIOL 335 - Units: 1.5 - Hours: 3-3-0
**Ichthyology**
The evolution and diversity of fishes. Emphasis on form and function, ecology, behaviour, sensory modes, fishery management, global crises in fisheries, and marine protected areas. Laboratories include identification of major groups of fishes, methodology and experimental approaches to the study of fishes.
Note: Credit will be granted for only one of BIOL 335, BIOL 431A, MRNE 412 (if taken prior to May 2011).
Prerequisite(s): • BIOL 215; and
• minimum third-year standing.
Recommendation(s): BIOL 307 recommended prior to BIOL 335.

BIOL 336 - Units: 1.5 - Hours: 3-3-0
**Biology of Algae**
A survey of aquatic and terrestrial algal diversity, with special emphasis on marine algae. Evolution, ecology, physiology, cell biology, and technological applications of algae. Laboratories include observations of microscopic and macroscopic algal specimens, an individual project, and local field trips to coastal marine environments.
Note: Credit will be granted for only one of BIOL 336, BIOL 203, BIOL 323.
Prerequisite(s): BIOL 215 and BIOL 225.
BIOL 400 Units: 1.5 Hours: 3-0-0
History of Biology
The historical development of the major techniques and ideas of biology, including the significance of the important historical contributors to biology.
Note: Only one of BIOL 400 and BIOL 489 may be counted as an upper-level credit toward degree programs in Biology.
Prerequisite(s): Minimum third-year standing.

BIOL 401A Units: 1.5 Hours: 3-0-0
Biotechnology
The tools of molecular biology and biotechnology (including the enzymes, cloning vectors and cloning strategies used in recombinant DNA technology, as well as the origins of these tools), and the application of genetic engineering to medicine, agriculture, forestry, forensic science and related areas. Lectures will also include bioethics and the impact of biotechnology on society.
Pre- or Corequisite(s): One of BIOL 360, BIOL 361, BIOC 300B.

BIOL 404 Units: 1.5 Hours: 3-0-0
Sensory Biology
Neural mechanisms underlying sensory systems: sensory receptor coding logic, signal transduction, neuronal circuitry, comparative analysis of model organisms. Related clinical disorders and therapeutic strategies will also be discussed. A large emphasis will be placed on the primary literature highlighting major advances in the field, aimed at building skills for designing experiments to test specific hypotheses.
Prerequisite(s): One of BIOL 360, BIOL 367, BIOL 409A.

BIOL 409B Units: 1.5 Hours: 2-4-0
Experimental Neurobiology
Laboratory investigations of the neural basis of behaviour. Selected sensory and motor systems studied at the cellular, neuronal circuit, and whole animal levels. Techniques include extracellular and intracellular recording and stimulation, anatomical tracing of neuronal pathways; computerized acquisition and analyses of electrophysiological data.
Prerequisite(s): BIOL 367; or permission of the department.

BIOL 410 Units: 1.5 Hours: 3-3-0
Herpetology
The biology of amphibians and reptiles, particularly diversity, ecology, and behaviour. Presentations required. Laboratory involves mainly taxonomic identifications. Field trips when possible.
Prerequisite(s): BIOL 307 or BIOL 207.
Pre- or Corequisite(s): One of BIOL 330, ES 310, ES 344.

BIOL 415C Units: 1.5 Hours: 3-0-0
Myology
The diversity and ecology of fungi. Topics include: fungal molecular genetics, the role of fungi in ecosystem function, beneficial and pathogenic fungi in forests, and the importance of fungal biochemistry in industrial processes and human activities.
Notes:
- Credit will be granted for only one of BIOL 415C, BIOL 415, BIOL 415A, BIOL 415B, BIOL 470 (if taken in the same topic), FORB 515.
- A combined undergraduate and graduate course.
Prerequisite(s): All of BIOL 215, BIOL 225, BIOL 230.

BIOL 418 Units: 1.5 Hours: 3-3-0
Forest Ecology
Structure and function of forest ecosystems at the tree, stand and landscape scale, including effects of the environment upon plant abundance, distribution and diversity; nutrient, carbon and water cycles; population and community ecology; disturbance; forest conservation; climate change and global forests.
Prerequisite(s): BIOL 215; and minimum third-year standing.
Recommendation(s): BIOL 324 recommended prior to BIOL 418.

BIOL 432 Units: 1.5 Hours: 3-0-0
Molecular Endocrinology
Basic and molecular aspects of endocrinology. Brain hormones and their precursors, insulin and its receptor, gene-associated peptides, new glycoprotein hormones, growth factors, steroids, the superfamily of steroid and thyroid receptors, pheromones, oncogenes, immunoenocrinology and environmental endocrinology. Lectures and presentations of scientific papers.
Prerequisite(s): One of BIOL 360, BIOL 365, BIOC 299, BIOC 300A, BIOC 300B.

BIOL 435 Units: 1.5 Hours: 3-0-0
Molecular Evolution
Using population genetic and evolutionary principles to understand how and why genes and genomes change, and to reconstruct the evolutionary history of genes, genomes, and organisms.
Prerequisite(s): BIOL 230.
Pre- or Corequisite(s): One of BIOC 330, BIOL 355, BIOL 439, BIOC 435, BIOC 300A, BIOC 300B, CSC 428, ES 310, ES 344.

BIOL 436 Units: 1.5 Hours: 3-0-0
Human Molecular Genetcs
Survey of the organization, structure/function, and mapping of the human genome; the biochemical and molecular basis, screening, prevention, and treatment of various human diseases, including cancer.
Prerequisite(s):
- BIOL 225 and BIOL 230; and
- one of BIOL 361, BIOC 300A, BIOC 300B; or
- permission of the department.

BIOL 438 Units: 1.5 Hours: 3-0-0
Nutrient Cycling and Prokaryotes
An introduction to prokaryotes (bacteria and archaea) and their role in nutrient cycling in forests, lakes and oceans. Diversity and evolution of populations and communities of prokaryotes and their role in the major biogeochemical cycles: carbon, nitrogen, sulfur. Genetic, biochemical, physiological and ecological aspects of processes such as nitrogen fixation and methanogenesis; design of experimental approaches to assess cycling of elements in forests, lakes and oceans by prokaryotes.
Prerequisite(s):
- Either two of BIOL 215, BIOL 225, BIOL 230, or MICR 200A and MICR 200B; or
- permission of the department.

BIOL 439 Units: 1.5 Hours: 3-0-0
Molecular Epidemiology
Basic principles and applications of molecular epidemiology in epidemiological research on infectious and chronic diseases as well as risk factors in human populations. An overview of terminology and definitions, the use of statistics, and ethical consideration.
Prerequisite(s):
- BIOL 225 and BIOL 230, and
- STAT 255 or STAT 260.

BIOL 446 Units: 1.5 Hours: 3-0-0
Advanced Aquatic Ecology
Introduction to fundamental concepts, theories and models in aquatic ecology and their application to sustainable protection and management of aquatic (freshwater and marine) ecosystems and resources. Emphasis on integrated approaches: water quality, nutrient-food web dynamics, aquatic biodiversity, fisheries productivity, and contaminant transport. Critical review of recent journal articles. Written and oral presentations required.
Prerequisite(s):
- One of BIOL 215, BIOL 311, BIOL 311B, BIOL 330, EOS 311, ES 310, ES 344, GEOG 371; and
- minimum fourth-year standing.

BIOL 447 Units: 1.5 Hours: 3-0-0
Ion Channels and Disease
Structure and function of major voltage- and ligand-gated ion channels in neurons. Channel-related diseases and how alterations in ion channel function can contribute to nervous system disorders such as nicotine addiction and epilepsy. Mechanisms of ligand binding, gating and ion selectivity. Bioinformatic tools to analyze ion channel sequence, functional domains and structure, and electrophysiological, fluorescence and crystallography techniques to study channel structure and function. Critical discussions of the primary literature will be emphasized.
Prerequisite(s): BIOL 360 or BIOL 365.
BIOL 448  Units: 1.5  Hours: 3-0-2
Neuroethology
Examination of the neuronal basis of behaviour. Insights into the neuronal organization of behaviour through examination of neural solutions that have evolved in animals to solve problems encountered in their particular environments. Examples in individual species will be used to illustrate how neuronal systems integrate information to shape behaviour in a real-world context. Research papers and seminar presentations based on the primary literature will be emphasized.
Prerequisite(s): One of BIOL 345, BIOL 365, BIOL 305A, BIOL 305B.

BIOL 449  Units: 1.5  Hours: 3-3-0
Also: ES 425
Formerly: BIOL 318
Flowering Plant Diversity
A regional and worldwide survey of flowering plants, including morphological diversity and adaptations; plant evolution and phylogeny; species concepts; modern classification and nomenclature; and experimental approaches to the study of plant diversity. Labs emphasize identification and use of keys. Lab projects include the option of a pressed plant collection. Contact instructor for details and collecting equipment.
Prerequisite(s):
•  BIOL 184 or BIOL 190B, and
•  BIOL 186 or BIOL 190A, and
•  minimum third-year standing.
Recommendation(s): BIOL 324 recommended prior to BIOL 449.

BIOL 457  Units: 1.5  Hours: 3-0-0
Paleoecology and Environmental Change
Fundamental principles of paleoecology with emphasis on speciﬁc, community and ecosystem responses to environmental change over the past 2 million years. Topics include: using fossil remains to infer ecological dynamics and climate change since the last glaciation; ice age megafaunal extinctions; role of paleoecology in conservation.
Prerequisite(s):
•  BIOL 215 or EOS 330, and
•  minimum third-year standing; or
•  permission of the department.
Recommendation(s): BIOL 324 recommended prior to BIOL 457.

BIOL 458  Units: 1.5  Hours: 3-0-0
Plant Biochemistry and Biochemical Ecology
An introduction to plant biochemistry, plant metabolism, and the biochemical basis of plant adaptation, with emphasis on plant-speciﬁc biochemical pathways and processes, and their regulation and molecular biology. Storage carbohydrates, cell wall biosynthesis, lipid metabolism, nitrogen ﬁxation and assimilation, and photosynthesis; biochemical ecology of secondary plant metabolites including isoprenoids, phenolics and alkaloids.
Note: Not open to students with credit in BIOL 490A in this topic.
Prerequisite(s): One of BIOL 299, BIOL 300A, BIOL 300B.
Recommendation(s): BIOL 300A or BIOL 300B recommended prior to BIOL 458.

BIOL 459  Units: 1.5  Hours: 3-0-0
Human Microbial Diseases
An introduction to human infectious diseases and the biology and ecology of pathogenic bacteria and viruses. Basic principles of epidemiology of infectious diseases. Methods of control: antibiotics, antivirals and vaccines. Classification, pathogenicity, molecular diagnostic, epidemiology of various types of human infectious diseases (respiratory, digestive, etc.).
Prerequisite(s): Two of BIOL 215, BIOL 225, BIOL 230.

BIOL 460  Units: 1.0
Honours Seminar
Participation in seminars as arranged by the department and the Honours Coordinator. Required of all Honours students in their fourth-year of studies, as an addition to the normal 15 units.
Grading: COM, N, F.

BIOL 461  Units: 1.5  Hours: 3-0-1
Fisheries Ecology and Management
An examination of the basic principles of fisheries ecology and population dynamics and how these are used as the basis for stock assessment and fisheries management. Topics include: current issues in BC, Canadian and global fisheries; growth, mortality, reproduction and recruitment; stock-recruitment and age-structured ﬁsheries models; fisheries management tactics and strategies.
Pre- or Corequisite(s):
•  One of BIOL 330, BIOL 370, ES 320, ES 344, or
•  permission of the department.
Recommendation(s): BIOL 335 recommended prior to BIOL 461.

BIOL 462  Units: 1.5  Hours: 3-0-1
Community and Ecosystem
An examination of the development of, and approaches to, ecological research, including theoretical and empirical advances. Topics include scale, biodiversity ecosystem function, diversity stability, trophic interactions, food webs, ecological networks, macroecology, and resilience, as well as an introduction to programming and ecological modeling in R.
Prerequisite(s): BIOL 215.
Pre- or Corequisite(s): BIOL 330 or ES 344.

BIOL 465  Units: 1.5  Hours: 3-0-0
The Molecular Basis of Cancer
Clinical terminology, concepts of cancer epidemiology, DNA mutation and repair, molecular basis of cell cycle regulation, cell proliferation and apoptosis. Special emphasis on chemotherapy, gene therapy, diet and cancer, and the immunology of cancer.
Prerequisite(s):
•  BIOL 225 and BIOL 230, and
•  one of BIOL 360, BIOL 300A, BIOL 300B.

BIOL 466  Units: 1.5  Hours: 3-0-0
Frontiers in Marine Biology
Explores new advances in topics related to ocean biology, focusing on ocean change and responses in biological systems. Topics range from novel approaches to ocean discovery both in theory and in the field, to the role of humans in ocean change and mitigation. Content is based in ocean processes and ecological interactions ranging from microbes to ecosystem and from coasts to the deep sea.
Prerequisite(s): One of BIOL 311, BIOL 319, EOS 311.
Pre- or Corequisite(s): BIOL 330 or ES 344.

BIOL 467  Units: 1.5  Hours: 3-0-0
Neural Development
Neural induction, patterning, cell fate determination, axon guidance, synaptic development, circuit formation, neural stem cells, adult neurogenesis. Emphasis on molecular mechanisms, analysis of primary literature.
Prerequisite(s): One of BIOL 309, BIOL 360, BIOL 367.

BIOL 468  Units: 1.5  Hours: 3-0-0
Food Web Ecology
Characterizing food web interactions is fundamental to ecology. Provides a comprehensive introduction to the most important methods used to characterize food web interactions in terrestrial and aquatic ecosystems. Topics will include: isotopic ecology, ecological stoichiometry, nutritional geometry, lipid tracers, and molecular tracers.
Note: Credit will be granted for only one of BIOL 468, BIOL 470 (if taken in the same topic).
Prerequisite(s):
•  BIOL 215, and
•  minimum third-year standing.

BIOL 470  Units: 1.5-3.0  Hours: 3-0-0*
Advanced Topics in Biology
Examination of a specific topic in biology.
* Lab or tutorial hours may vary depending on the topic.
Note: May be taken more than once for credit in different topics.
Prerequisite(s): Set by department depending upon topic.

BIOL 490A  Units: 1.5
Directed Studies and Research in Botany
Departmental permission may be given for supervised research projects, individual study, or directed readings.
Notes:
•  A student may take up to a maximum of 3 units from BIOL 490A, BIOL 490B, BIOL 490D, BIOL 490E, BIOL 490F, BIOL 490G, BIOL 490H, BIOL 490I, MRN 400.
•  Pro Forma required.
Prerequisite(s):
•  Minimum third-year standing; and
•  minimum cumulative GPA of 5.0 in the last 15 units of coursework.
Grading: I,N,P; standard grade.

BIOL 490B  Units: 1.5
Directed Studies and Research in Ecology
Departmental permission may be given for supervised research projects, individual study, or directed readings.
Notes:
•  A student may take up to a maximum of 3 units from BIOL 490B, BIOL 490A, BIOL 490D, BIOL 490E, BIOL 490F, BIOL 490G, BIOL 490H, BIOL 490I, MRN 400.
•  Pro Forma required.
Prerequisite(s):
•  Minimum third-year standing; and
•  minimum cumulative GPA of 5.0 in the last 15 units of coursework.
Grading: I,N,P; standard grade.
### BIOL 490D - BME 335

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
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<tr>
<td>BIOL 490D</td>
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<td>Directed Studies and Research in Marine Biology</td>
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<td>BIOL 490E</td>
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<td>Directed Studies and Research in Zoology</td>
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<td>BIOL 490F</td>
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<td>Directed Studies and Research in Cell and Molecular Biology</td>
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<td>BIOL 490H</td>
<td>1.5</td>
<td>Directed Studies and Research in Neurobiology</td>
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**Notes:**

- A student may take up to a maximum of 3 units from BIOL 490D, BIOL 490E, BIOL 490F, BIOL 490G, BIOL 490H, and MRNE 400.
- Pro Forma required.

**Prerequisite(s):**

- Minimum cumulative GPA of 5.0 in the last 15 units of coursework.
- Minimum third-year standing.

**Grading:**

- INP, standard grade.

**BME**

### Biomedical Engineering

**Faculty of Engineering**

Some Faculty of Engineering courses are only open to students in the faculty or in specific programs. Courses and applicable restrictions are listed at www.uvic.ca/engineering/courses/access.php

Courses offered by the Faculty of Engineering are also found under the following course codes: CIVE (Civil Engineering), CSC (Computer Science), ECE (Electrical and Computer Engineering), ENGR (Engineering), MECH (Mechanical Engineering) and SENG (Software Engineering).

#### BME 200 - Molecular and Cellular Physiology

Examines the basic structures and processes that make up cells and tissues, including protein synthesis, cellular tissues, and control of cellular processes, using principles from engineering kinetics and transport processes. Includes wet lab exercises.

**Prerequisite(s):**

- CHEM 101 or CHEM 150, and
- one of PHYS 111, PHYS 112, PHYS 125, PHYS 130.

#### BME 201 - Quantitative Human Physiology

Introduction to human physiology at the level necessary for advanced work in biomedical engineering, including properties of organ systems such as the nervous, endocrine, muscular, cardiovascular and respiratory systems.

**Prerequisite(s):**

- CHEM 101 or CHEM 150, and
- one of PHYS 111, PHYS 112, PHYS 125, PHYS 130.

#### BME 320 - Engineering Materials with BME applications

Materials for engineering; at omic structure, arrangement and movement; crystalline structures, polymer structures and polymer development and formulation; ceramics and ceramic development; properties of ferrous and nonferrous metals; properties of semiconductors, insulators and magnetic materials; electronic conduction in solids and simple devices. Materials in biomedical engineering design and biological effects.

**Note:** Not open for credit to students registered in or with credit in any of ECE 220, ELEC 220, MECH 285.

**Prerequisite(s):**

- CHEM 101 or CHEM 150, and
- one of PHYS 111, PHYS 112, PHYS 125, PHYS 130.

#### BME 335 - Engineering Materials with BME applications

Also: ECE 335

**Biosensors and Instrumentation**

A study of the basic principles of biomedical electronics and measurement with emphasis on instruments and systems for biomedical data acquisition and processing. Topics will include electrocardiography (ECG), electroencephalography (EEG), medical ultrasound, magnetic resonance imaging (MRI), and x-ray computed tomography (CT).

**Note:** Credit will be granted for only one of BME 335, ECE 335, ELEC 335.

**Prerequisite(s):**

- One of ECE 216, ELEC 216, PHYS 216.
- Or: One of ECE 330, ECE 365, ELEC 330, ELEC 365.
BME 350 - Units: 2.0 - Hours: 4-3-1
Biomedical Engineering Design
Design methodology; recognizing and defining open-ended biomedical engineering problems, problem definition, concept generation, project planning, modelling, analysis, decision making, design synthesis, prototyping and testing. Students complete a series of design projects in small teams to develop teamwork. Introduction to engineering graphics; perspective and orthographic projections; 3D models, dimensioning and tolerancing; generation of engineering drawings with CAD systems.
Note: Credit will be granted for only one of BME 350, MECH 350.
Prerequisite(s): BME 201 and MECH 220.

BME 401A - Units: 1.5 - Hours: 3-0*-0
Special Topics in Biomedical Engineering
Presents material in an emerging field or one not covered in regular offerings. Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered. * Lab hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of BME 401A, BME 401B (if taken in the same topic), BME 401C (if taken in the same topic), BME 401D (if taken in the same topic), ECE 496A (if taken in the same topic), ECE 496B (if taken in the same topic), ECE 496C (if taken in the same topic), ECE 496D (if taken in the same topic), ECE 496E (if taken in the same topic), MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic), MECH 450C (if taken in the same topic), MECH 450D (if taken in the same topic), MECH 450E (if taken in the same topic), and MECH 450F (if taken in the same topic).

BME 401B - Units: 1.5 - Hours: 3-0*-0
Special Topics in Biomedical Engineering
Presents material in an emerging field or one not covered in regular offerings. Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered. * Lab hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of BME 401A, BME 401B (if taken in the same topic), BME 401C (if taken in the same topic), BME 401D (if taken in the same topic), ECE 496A (if taken in the same topic), ECE 496B (if taken in the same topic), ECE 496C (if taken in the same topic), ECE 496D (if taken in the same topic), ECE 496E (if taken in the same topic), MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic), MECH 450C (if taken in the same topic), MECH 450D (if taken in the same topic), MECH 450E (if taken in the same topic), and MECH 450F (if taken in the same topic).

BME 401C - Units: 1.5 - Hours: 3-0*-0
Special Topics in Biomedical Engineering
Presents material in an emerging field or one not covered in regular offerings. Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered. * Lab hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of BME 401C, BME 401A (if taken in the same topic), BME 401B (if taken in the same topic), BME 401D (if taken in the same topic), ECE 496A (if taken in the same topic), ECE 496B (if taken in the same topic), ECE 496C (if taken in the same topic), ECE 496D (if taken in the same topic), ECE 496E (if taken in the same topic), MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic), MECH 450C (if taken in the same topic), MECH 450D (if taken in the same topic), MECH 450E (if taken in the same topic), and MECH 450F (if taken in the same topic).

BME 401D - Units: 1.5 - Hours: 3-0*-0
Special Topics in Biomedical Engineering
Presents material in an emerging field or one not covered in regular offerings. Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered. * Lab hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of BME 401D, BME 401A (if taken in the same topic), BME 401B (if taken in the same topic), BME 401C (if taken in the same topic), ECE 496A (if taken in the same topic), ECE 496B (if taken in the same topic), ECE 496C (if taken in the same topic), ECE 496D (if taken in the same topic), ECE 496E (if taken in the same topic), MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic), MECH 450C (if taken in the same topic), MECH 450D (if taken in the same topic), MECH 450E (if taken in the same topic), and MECH 450F (if taken in the same topic).

BME 403 - Units: 1.5 - Hours: 3-0-0
Medical Image Processing
Image processing and understanding techniques applied in medical imaging technologies such as CT, MRI, ultrasound, X-ray. Design of computer aided diagnosis systems. Topics include algorithms for filtering, edge detection, segmentation, registration and 3D visualization of medical data.
Note: Credit will be granted for only one of BME 403, ECE 433, ELEC 435.
Prerequisite(s): ECE 310 or ELEC 310.

BME 434 - Units: 1.5 - Hours: 3-0-0
Biophotonics
An overview of basic optics (including the principles of lasers), biology and photobiology will be given. Practical applications will be presented including biolmageing, biosensing and microarray technologies, flow cytometry, photodynamic therapy, tissue engineering (including laser surgery), and laser scissors and tweezers.
Note: Credit will be granted for only one of BME 434, ECE 434, ELEC 434.
Prerequisite(s): ECE 434 or ELEC 434.

Notes:
* Lab hours may vary depending on the topic.

BME 435 - Units: 1.5 - Hours: 1-9-0
Technical Project
Provides an opportunity to carry out a project of a technical level similar to 4th year electives, under the supervision of a faculty member. Requires independent study of current technical literature. When feasible, the design should be assessed in the laboratory. A complete report must be presented at the end of the term.
Note:
• May be taken only once.
Prerequisite(s): All of BME 350, BME 335, ENG 003, and permission of the department.
BME 498 - CHEM 234

Honours Thesis
The honours thesis provides an opportunity for selected students to carry out a major design or research project under the supervision of a faculty member. The project will require independent study of the current technical literature, and independent research or design work. Each student will present a complete report at the end of the term, and make an oral presentation of the findings.

Notes:
• Not open for credit to students with credit in any of CENG 499, ECE 498, ECE 499, ELEC 498, ELEC 499, MECH 498, MECH 499.
• This course may only be taken once, replacing two technical electives, one of which can be one of CENG 499, ECE 499, ELEC 499, MECH 499.
Prerequisite(s):
• Minimum GPA of 6.0 in all of Year 3 Biomedical Engineering courses; and
• permission of the program.

Grading: INP, standard grade.

BME 499 - CHEM 101

Units: 3.0  Hours: 2-18-0

Introduction to Chemistry
Fundamentals of Chemistry from Atoms to Materials
Introduction to theories of atomic and molecular structure. Description of materials properties with a focus on phases, intermolecular forces, band structure and conductivity. Introduction to organic materials, including polymers. Laboratory emphasizes chemical techniques typically needed in a scientific environment including observing, recording and discussing experimental data.

Note: Credit will be granted for only one of CHEM 101, CHEM 102, CHEM 124, CHEM 140, CHEM 150.

Prerequisite(s):
• Chemistry 11; and
• Pre-calculus 12, Principles of Mathematics 12 or equivalent; or
• permission of the department.

Units: 1.5  Hours: 3-3-0

Chemical Reactivity Fundamentals with Environmental Applications
Introduction to thermodynamics and kinetics for chemical transformations in the environment. First and second laws of thermodynamics. Equilibria including acid base chemistry. Kinetics of one step and multiple step reactions, with an introduction to transition states and reactive intermediates. Application of these chemical concepts to the atmosphere and oceans. Laboratory builds on the experience of CHEM 101, with practice in developing routine skills. Continued emphasis is given to reporting data accurately.

Prerequisite(s):
• CHEM 201 or Chemistry 12; and
• CHEM 101 or CHEM 150.

Units: 1.5  Hours: 3-3-0

Engineering Chemistry
Atomic and molecular structure; periodicity, chemical bonding; gases, liquids, and solids; phase equilibria; equilibrium, thermochemistry, chemical thermodynamics; electrochemistry.

Notes:
• Credit will be granted for only one of CHEM 150, CHEM 108, CHEM 101.
• Students who have completed an advanced mathematics course equivalent to Pre-Calculus 12 or Principles of Mathematics 12 may request permission to register in the course.

Prerequisite(s):
• Chemistry 11; and
• Pre-Calculus 12 or Principles of Mathematics 12; and
• admission to BiEng or BSEng program; or
• permission of the department.

Recommendation(s): Chemistry 12 recommended prior to CHEM 150.

BME 231 - CHEM 232

Units: 1.5  Hours: 3-4-0

Introduction to Inorganic Chemistry
Models and tools for understanding periodicity, structure, bonding and reactivity. In the tutorials examples illustrate concepts and relevant spectroscopy.

Notes:
• Credit will be granted for only one of CHEM 222, CHEM 225.
• Not open for credit to students with credit in CHEM 213 or CHEM 232.
• Students with credit in CHEM 232 should register in CHEM 225.

Prerequisite(s):
• CHEM 102; and
• CHEM 213 or CHEM 232.

BME 219 - CHEM 233

Units: 1.5  Hours: 3-4-0

Practical Spectroscopy
Elementary theory and applications of mass spectrometry, infrared, UV-visible, and nuclear magnetic resonance spectroscopy to inorganic and organic compounds.

Prerequisite(s):
• CHEM 222 or CHEM 232.

BME 234 - CHEM 233

Units: 1.5  Hours: 3-0-1

Introduction to Inorganic Chemistry with Laboratory
Models and tools for understanding periodicity, structure, bonding and reactivity. Laboratory involves synthesis and spectroscopy of inorganic compounds.

Notes:
• Credit will be granted for only one of CHEM 222, CHEM 225.

Prerequisite(s):
• CHEM 102; and
• CHEM 213 or CHEM 232.

BME 231 - CHEM 232

Units: 1.5  Hours: 3-4-0

Introduction to Organic Chemistry
Understanding structure, stereochemistry and mechanism; nucleophiles, substitutions, eliminations and additions. In the tutorials examples illustrate concepts and relevant spectroscopy.

Prerequisite(s):
• CHEM 101 or CHEM 150.

BME 232 - CHEM 234

Units: 1.5  Hours: 3-0-1

Organic Chemistry with Biological Applications with Laboratory
The continuation of CHEM 231. Completion of the survey of functional groups with examples from aromatic and biological molecules, with emphasis on mechanisms and synthesis. Laboratory involves synthesis and spectroscopy of organic compounds.

Note: Credit will be granted for only one of CHEM 232, CHEM 234, CHEM 235.

Prerequisite(s):
• CHEM 231; and
• CHEM 213 or CHEM 222.

BME 232 - CHEM 234

Units: 1.5  Hours: 3-4-0

Organic Chemistry with Biological Applications
The continuation of CHEM 231. Completion of the survey of functional groups with examples from aromatic and biological molecules, with emphasis on mechanisms and synthesis. In the tutorials, examples illustrate concepts and relevant spectroscopy.

Notes:
• Credit will be granted for only one of CHEM 232, CHEM 234, CHEM 235.
• Not open for credit to students with credit in CHEM 222.
• Students with credit in CHEM 222 should register in CHEM 232.

Prerequisite(s):
• CHEM 102 and CHEM 231.
CHEM 245  Units: 1.5  Hours: 3-0-1
Introduction to Thermodynamics
Introduction to the principles of thermodynamics. Applications to gas and solution reactions and phase transitions. The tutorials emphasize numerical problem solving.
Prerequisite(s):
• CHEM 102, and
• one of MATH 100, MATH 102, MATH 109.

CHEM 260  Units: 1.5  Hours: 0-6-0
Synthetic Chemistry Laboratory
Experimental techniques in synthetic chemistry and physical characterization of organic and inorganic molecules. Laboratory tutorials will illustrate concepts and provide practice in structure determination.
Note: Not open for credit to students with credit in CHEM 222 or CHEM 232.
Prerequisite(s): CHEM 102 and CHEM 231.

CHEM 298  Units: 0  Hours: 0-6-0
Research Experience
Experimental research under the direction of department members. For second-year students who wish to gain some experience in chemical research. Interested students should contact the course coordinator by the first week of classes.
Prerequisite(s): Permission of the department.
Grading: COM, N, F.

CHEM 300A  Units: 1.5  Hours: 3-0-0
Chemistry in Modern Society
Intended for a broad audience, including non-scientists. Not intended for those students (Chemistry majors and others) with a strong Chemistry background. Familiarizes students with chemistry as experienced in daily life. Discussions will emphasize how to obtain and apply information in order to reach informed decisions on topics where chemistry plays a role.
Note: Not open for credit to students registered in or with credit in any of CHEM 212, CHEM 222, CHEM 225.

CHEM 318  Units: 1.5  Hours: 3-0-0
Instrumental Techniques of Analysis
Theory and applications of the most generally applied methods of instrumental analysis.
Prerequisite(s): CHEM 212.

CHEM 324  Units: 1.5  Hours: 3-0-0
Transition Metal Chemistry
Coordination chemistry of the d-block metals. Electronic structure, properties, reactions, and applications of transition metal complexes.
Prerequisite(s):
• CHEM 222, or
• CHEM 225 and CHEM 260.

CHEM 337  Units: 1.5  Hours: 3-0-1
Bio-organic Chemistry
Prerequisite(s): CHEM 232 or CHEM 234.

CHEM 347  Units: 1.5  Hours: 3-0-0
Quantum Chemistry
Introduction to quantum chemistry, molecular orbitals and bonding. The Schrödinger equation and its solutions for some simple systems. Molecular orbitals and bonding in diatomic and polyatomic molecules.
Note: Credit will be granted for only one of CHEM 347, CHEM 446.
Prerequisite(s): CHEM 245 and MATH 101.

CHEM 361  Units: 0.75 or 1.5  Hours: 0-3-0 or 0-6-0
Analytical Chemistry Laboratory
Emphasizes instrumental analysis and advanced analytical techniques.
Note: A total of 1.5 units of credit will be granted for only one of CHEM 361, CHEM 312 (if taken prior to September 2001), CHEM 318 (if taken prior to September 2001).
Prerequisite(s): CHEM 212.

CHEM 362  Units: 0.75 or 1.5  Hours: 0-3-0 or 0-6-0
Inorganic Chemistry Laboratory
Emphasizes synthesis and characterization of inorganic compounds.
Note: A total of 1.5 units of credit will be granted for only one of CHEM 362, CHEM 323, CHEM 324 (if taken prior to September 2001).
Prerequisite(s):
• CHEM 213 and CHEM 222, or
• CHEM 225 and CHEM 260.

CHEM 363  Units: 0.75 or 1.5  Hours: 0-3-0 or 0-6-0
Organic Chemistry Laboratory
Emphasizes organic synthesis and the relationship between spectra, structure and reactivity of synthesized materials.
Note: A total of 1.5 units of credit will be granted for only one of CHEM 363, CHEM 335, CHEM 338 (if taken prior to September 2001).
Prerequisite(s):
• CHEM 213 and CHEM 222, or
• CHEM 225 and CHEM 260.

CHEM 364  Units: 0.75 or 1.5  Hours: 0-3-0 or 0-6-0
Physical Chemistry Laboratory
Emphasizes experimental physical chemistry, data collection and analysis.
Note: A total of 1.5 units of credit will be granted for only one of CHEM 364, CHEM 346 (if taken prior to September 2001), CHEM 347 (if taken prior to September 2001).
Prerequisite(s): CHEM 212 and CHEM 245.

CHEM 398  Units: 0  Hours: 0-6-0
Research Experience
Experimental research under the direction of department members. For third-year students who wish to gain some experience in chemical research. Interested students should contact the course coordinator by the first week of classes.
Prerequisite(s): Permission of the department.
Grading: COM, N, F.

CHEM 399  Units: 1.5  Hours: 0-6-0
Formerly: CHEM 498
Research Experience
Experimental research under the direction of department members. For students who wish to gain some experience in chemical research. Students are advised to make arrangements for 399 projects as early as possible. Ideally, projects should be discussed with potential supervisors before the term in which the research will be undertaken. Interested students should contact the course coordinator by the first week of classes.
Notes:
• Credit will be granted for only one of CHEM 399, CHEM 498.
• Cannot be taken simultaneously with CHEM 499A or CHEM 499B.
Prerequisite(s): Permission of the department.

CHEM 405  Units: 1.5  Hours: 3-0-0
Professional Development and Societal Engagement for Chemists
Project based course that develops the professional aspects of chemistry with a focus on the application of chemistry to societal settings. The course project involves interactions with societal stakeholders.
Prerequisite(s):
• Minimum third year standing, and
• declared Honours or Major in a Chemistry Program.

CHEM 411  Units: 1.5  Hours: 3-0-0
Also: CHEM 511
Advanced Instrumental Analysis
A discussion of electronic data acquisition and manipulation as used in modern chemical instrumentation.
Notes:
• Credit will be granted for only one of CHEM 411, CHEM 511.
• A combined undergraduate and graduate course.
Prerequisite(s): CHEM 318.

CHEM 421  Units: 1.5  Hours: 3-0-0
Also: CHEM 521
Contemporary Inorganic Chemistry
Selected topics in inorganic chemistry that may include main group chemistry, inorganic polymers and macromolecules, bioinorganic chemistry or f-block chemistry.
Notes:
• Credit will be granted for only one of CHEM 421, CHEM 424, CHEM 426, CHEM 521.
• A combined undergraduate and graduate course.
Prerequisite(s): CHEM 324.

CHEM 423  Units: 1.5  Hours: 3-0-0
Also: CHEM 523
Organometallics and Catalysis
The metal-carbon bond within the context of coordination chemistry. Structure, bonding, synthesis, reactivity and applications in catalysis.
Notes:
• Credit will be granted for only one of CHEM 423, CHEM 523.
• A combined undergraduate and graduate course.
Prerequisite(s): CHEM 324.
CHEM 432 Units: 1.5 Hours: 3-0-0
Also: CHEM 533
Organic Synthesis
The art and science of total synthesis, with a focus on aliphatic, aromatic and some biomolecules.
Notes:
• Credit will be granted for only one of CHEM 432, CHEM 533.
• A combined undergraduate and graduate course.
Prerequisite(s):
• CHEM 232, or
• CHEM 234 and CHEM 260.

CHEM 437 Units: 1.5 Hours: 3-0-0
Also: CHEM 537
Biological and Medicinal Chemistry
Chemical aspects of medically important biological systems and the small molecules that perturb them.
Notes:
• Credit will be granted for only one of CHEM 437, CHEM 537.
• A combined undergraduate and graduate course.
Prerequisite(s):
• CHEM 232 or CHEM 234, and
• BIOC 299 or BIOC 300A.

CHEM 447 Units: 1.5 Hours: 3-0-0
Also: CHEM 547
Advanced Molecular Spectroscopy
Application of quantum chemistry to molecular spectroscopy. Laser spectroscopy methods and their applications.
Notes:
• Credit will be granted for only one of CHEM 447, CHEM 547.
• A combined undergraduate and graduate course.
Prerequisite(s):
• CHEM 347.

CHEM 451 Units: 1.5
Also: CHEM 551
Nuclear Magnetic Resonance and its Applications
The use of Nuclear Magnetic Resonance (NMR) in synthetic and mechanistic chemistry.
Notes:
• Credit will be granted for only one of CHEM 451, CHEM 551.
• A combined undergraduate and graduate course.
Prerequisite(s):
• CHEM 213 or CHEM 260.

CHEM 452 Units: 1.5 Hours: 3-0-0
Also: CHEM 552
Formerly: CHEM 352
Reaction Mechanisms and Dynamics
Predicting the kinetic behaviour of different types of mechanisms with examples from inorganic and organic chemistry.
Notes:
• Credit will be granted for only one of CHEM 452, CHEM 352, CHEM 552.
• A combined undergraduate and graduate course.
Prerequisite(s):
• CHEM 222 or CHEM 225, and
• CHEM 232 or CHEM 234.

CHEM 453 Units: 1.5 Hours: 3-0-0
Also: CHEM 553
Formerly: CHEM 353
Structure, Reactivity and Bonding
Descriptions of chemical bonding and reactivity using qualitative molecular orbital theory.
Notes:
• Credit will be granted for only one of CHEM 453, CHEM 553, CHEM 553.
• A combined undergraduate and graduate course.
Prerequisite(s):
• CHEM 232 or CHEM 234, and
• CHEM 324.

CHEM 458 Units: 1.5 Hours: 3-0-0
Also: CHEM 555
Statistical Thermodynamics
Relationship of macroscopic properties to molecular energy levels; the molecular basis of entropy and irreversibility. Probabilities, ensembles and fluctuations. Illustration of these ideas for selected applications.
Notes:
• Credit will be granted for only one of CHEM 458, CHEM 553.
• A combined undergraduate and graduate course.
Prerequisite(s):
• CHEM 245.

CHEM 459 Units: 1.5 Hours: 3-0-0
Also: CHEM 647
Materials Science
Introduction to properties of materials from a chemical perspective. Applications of these materials in devices.
Notes:
• Credit will be granted for only one of CHEM 459, CHEM 553.
• A combined undergraduate and graduate course.
Prerequisite(s):
• CHEM 245.

CHEM 467 Units: 1.5 Hours: 0-6-0
Special Topics in Experimental Chemistry
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s):
• Permission of the department.

CHEM 475 Units: 1.5 Hours: 3-0-0
Also: CHEM 645
Electrochemistry and its Applications
Introduction to equilibrium and kinetics of electrochemical processes including their applications in energy and analytical chemistry.
Notes:
• Credit will be granted for only one of CHEM 475, CHEM 645.
• A combined undergraduate and graduate course.
Prerequisite(s):
• CHEM 245 and CHEM 318.

CHEM 476 Units: 1.5 Hours: 3-0-0
Also: CHEM 676
Polymer Chemistry
Chemistry of polymers. Structure-property relationships and applications.
Notes:
• Credit will be granted for only one of CHEM 476, CHEM 336, CHEM 676.
• A combined undergraduate and graduate course.
Prerequisite(s):
• CHEM 222 or CHEM 225, and
• CHEM 232 or CHEM 234, and
• CHEM 245.

CHEM 477 Units: 1.5 Hours: 3-0-0
Also: CHEM 577
Computational Chemistry
Develops an understanding of the benefits and limitations of applying different computational models to chemical phenomena, accounting for the relevant length and time scales and including the appropriate molecular behaviours.
Notes:
• Credit will be granted for only one of CHEM 447, CHEM 577.
• A combined undergraduate and graduate course.
Prerequisite(s):
• CHEM 347.

CHEM 478 Units: 1.5 Hours: 3-0-0
Also: CHEM 578
Industrial Chemistry
A comparative discussion of a number of chemical industries and the details of their processes.
Notes:
• Credit will be granted for only one of CHEM 478, CHEM 302, CHEM 303, CHEM 306, CHEM 578.
• This course will require a background in chemistry and it is primarily designed for students taking a Chemistry program.
• A combined undergraduate and graduate course.
Prerequisite(s):
• CHEM 222 or CHEM 225, and
• CHEM 232 or CHEM 234, and
• CHEM 232 or CHEM 234, and
• CHEM 245.

CHEM 489 Units: 1.5 Hours: 3-0-0
Special Topics in Chemistry
Occasional offerings dealing with a specific topic in Chemistry.
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
Prerequisite(s):
• Permission of the department.

CHEM 490 Units: 1.5
Directed Studies in Chemistry
In special cases the department of Chemistry may give permission for individual studies and directed readings to be taken as 490. Students should consult a potential supervisor before requesting permission of the Chair to register.
Note: May be taken more than once for credit in different topics.
CHEM 498A Units: 1.5 Hours: 0-6-0
Advanced Research Experience I
The first stage of a research project conducted under the direction of a faculty member.
Notes:
• Credit will be granted for only one of CHEM 498A, CHEM 499, CHEM 499A.
• Not open to Honours students. Students planning to pursue an Honours degree in Chemistry should instead register for CHEM 499A and CHEM 499B.
• Students are advised to make arrangements for 498A/499A projects as early as possible. Ideally, projects should be discussed with potential supervisors before the semester in which the research will be undertaken. Interested students should contact the course coordinator by the first week of classes.
• CHEM 498A and CHEM 498B are “tied” courses and must be taken in consecutive terms except with permission of the department. Credit for CHEM 498A will be assigned only upon successful completion of CHEM 498B.
• Both CHEM 498A and CHEM 498B are offered in Fall and Spring Terms and Summer Session.

CHEM 498B Units: 1.5 Hours: 0-6-0
Advanced Research Experience II
Continuation of a research project conducted under the direction of a faculty member.
Notes:
• Credit will be granted for only one of CHEM 498B, CHEM 499, CHEM 499B.
• Not open to Honours students. Students planning to pursue an Honours degree in Chemistry should instead register for CHEM 499A and CHEM 499B.
• CHEM 498A and CHEM 498B are “tied” courses and must be taken in consecutive terms except with permission of the department. Credit for CHEM 498A will be assigned only upon successful completion of CHEM 498B.
• Both CHEM 498A and CHEM 498B are offered in Fall and Spring Terms and Summer Session.

CHEM 499A Units: 1.5 Hours: 0-6-0
Formerly: part of CHEM 499
Honours Thesis I
The first stage of a research project conducted under the direction of a faculty member.
Notes:
• Credit will be granted for only one of CHEM 499A, CHEM 499, CHEM 499B.
• Enrollment in 499A and 499B does not automatically confer Honours program status.
• CHEM 499A and CHEM 499B are “tied” courses and must be taken in consecutive terms except with permission of the department. Credit for CHEM 499A will be assigned only upon successful completion of CHEM 498B.
• Both CHEM 498A and CHEM 498B are offered in Fall and Spring Terms and Summer Session.
Prerequisite(s): Declared Honours in Chemistry.

CIVE Civil Engineering
Faculty of Engineering
Courses offered by the Faculty of Engineering are also found under the following course codes: BME (Biomedical Engineering), CSC (Computer Science), ECE (Electrical and Computer Engineering), ENGR (Engineering), MECH (Mechanical Engineering) and SENS (Software Engineering).

CIVE 200 Units: 1.5 Hours: 3-1.5*-0
Engineering Drawing
Engineering drawing: sketching, orthographic projections, multiple views, sectional views, isometric and perspective projections, dimensions and tolerances, and working drawings. Computer aided design relevant to Civil Engineering projects.
* Indicates a 3-hour laboratory taken by students on alternate weeks.
Prerequisite(s):
• CSC 110 or CSC 111; and
• MATH 110 or MATH 211.

CIVE 210 Units: 1.5 Hours: 3-0-0
Sustainability in Civil Engineering
Prerequisite(s):
• CHEM 101 or CHEM 15G and
• CSC 110 or CSC 111; and
• MATH 100 or MATH 109; and
• PHYS 110 and PHYS 111, or PHYS 112, or PHYS 120 and PHYS 121.

CIVE 220 Units: 1.5 Hours: 3-1.5*-1
Mechanics of Solids I
* Indicates a 3-hour laboratory taken by students on alternate weeks.
Note: Credit will be granted for only one of CIVE 220, MECH 220.
Prerequisite(s): ENGR 141.
Pre- or Corequisite(s): MATH 200.

CIVE 242 Units: 1.5 Hours: 3-0-1
Dynamics
Kinematics and dynamics of rigid bodies; analysis of planar rigid body motion using translating and rotating axes; two-dimensional rigid body dynamics using force/acceleration, work/energy and impulse/momentum methods; applications to one degree of freedom planar mechanisms and vibrations; introduction to three-dimensional rigid body dynamics.
Note: Credit will be granted for only one of CIVE 242, MECH 242.
Prerequisite(s):
• ENGR 141; and
• MATH 101; and
• MATH 110 or MATH 211; and
• one of PHYS 110, PHYS 120, PHYS 122.
Pre- or Corequisite(s):
• One of MATH 200, MATH 201, MATH 204; or
• permission of the department.

CIVE 285 Units: 1.5 Hours: 3-1.5-1
Civil Engineering Materials
Prerequisite(s):
• MATH 100 or MATH 109; and
• MATH 101 or MATH 150; and
• PHYS 110 and PHYS 111, or PHYS 112, or PHYS 122 and PHYS 125.

CIVE 295 Units: 1.5 Hours: 3-0-1
Building Science Fundamentals
Kinetic theory; gas laws; work and heat; laws of thermodynamics; heat transfer by conduction, convection and radiation; mass transfer; fluids in motion; air and moisture content; air flow; ventilation; weather data; hygrothermal response of building materials.
Note: Credit will be granted for only CIVE 295, MECH 295.
Prerequisite(s): MATH 101.
### CIVE 299 - CIVE 411

#### CIVE 299  
**Units:** 1.5  
**Hours:** 1.5-3-1  
**Geomatics Engineering**  
Introduction to collection, analysis and presentation of geomatic data in civil engineering including surveying, GIS and remote sensing. Fundamental concepts of horizontal and vertical angle measurement, levelling, area computation, earthworks computation, profiles and cross-sections, circular curves. Operation of field equipment used in surveying. Principles of Global Positioning Systems, data collection, map reading, scale, and map projections. Principles behind geographic information systems, spatial data and analysis, and basic geodesy. Remotely sensed data sources and associated errors.  
*Note:* Course includes mandatory survey camps that are normally scheduled in September.  
**Prerequisite(s):**  
- MATH 100 or MATH 109; and  
- ENGR 110 or ENGR 112.

#### CIVE 310  
**Units:** 1.5  
**Hours:** 3-1.5-1  
**Environmental Engineering**  
Environmental systems analysis techniques for natural and engineered systems. Sources, characteristics, transport, and effects of air and water contaminants; biological, chemical, and physical processes in water; unit operations for air and water quality control, water and wastewater treatment processes; solid waste management; environmental quality standards. Design, planning, and management of engineered environmental systems.  
**Prerequisite(s):**  
- CIVE 210; and  
- either EOS 110 and EOS 120, or GEOG 103.

#### CIVE 315  
**Units:** 1.0  
**Hours:** 2-0-1  
**Environmental Policy**  
Introduction to environmental policy, law and governance and cultural and sociological implications of sustainable engineering. How policy is formed and changed. Civil engineering development in First Nations.  
**Prerequisite(s):** CIVE 210.

#### CIVE 340  
**Units:** 2.0  
**Hours:** 3-3-0  
**Sustainable Water Resources**  
Design and environmental integration of a water resource system using simulation and geomatics software. Introduction to hydrology, hydraulic engineering, and water resources planning; environment and management of watersheds and ecosystems; risk and uncertainty; urban water systems and water quality, economic demand and supply principles, externalities.  
**Prerequisite(s):** CIVE 210 and CIVE 345.

#### CIVE 345  
**Units:** 1.5  
**Hours:** 3-1.5*-1  
**Fluid Mechanics**  
*Indicates a 3-hour laboratory taken by students on alternate weeks.  
**Prerequisite(s):**  
- MATH 200; and  
- CIVE 220 or MECH 220; and  
- CIVE 295 or MECH 295.

#### CIVE 350  
**Units:** 1.5  
**Hours:** 3-0-1  
**Structural Analysis**  
Analysis and design of determinate and indeterminate structures under static loads, including beams, plates, trusses, cables, framed structures and arches. Introduction to matrix methods for structural analysis.  
**Prerequisite(s):**  
- CIVE 220 or MECH 220; and  
- ENGR 141 and MATH 200; and  
- either EOS 110 and EOS 120, or GEOG 103.

#### CIVE 351  
**Units:** 2.0  
**Hours:** 3-0-3  
**Sustainable Design of Steel and Timber Structures**  
Design of metal structures; behaviour of members and their connections; shear lag, block shear, local plate buckling, lateral torsional buckling, inelastic strength and stability. Design of tension members and cables, beams, columns, simple bolted and welded connections. Mechanical properties of wood; effects of moisture content and loading on strength and durability; engineered woods; design of connections, beams, and columns; design of buildings, bridges and other wood structures. Life cycle analysis of structures.  
**Prerequisite(s):**  
- CIVE 210 and CIVE 350; and  
- CIVE 320 or MECH 220.

#### CIVE 352  
**Units:** 2.0  
**Hours:** 3-3-0  
**Reinforced Concrete Structural Design**  
Strength and design of reinforced concrete structures; fundamental behaviour under various stresses; design of compression and flexural members, and use of innovative materials in reinforced concrete structures.  
**Prerequisite(s):**  
- All of CIVE 210, CIVE 285, CIVE 350, and  
- CIVE 320 or MECH 220.

#### CIVE 360  
**Units:** 1.5  
**Hours:** 3-1.5-0  
**Sustainable Transportation Systems**  
Topical lectures, case studies, transportation system design project in small teams. Role of transportation in urban development and planning; social impacts, policy; sustainability, clean transportation technology. Transportation network analysis, design, and flow prediction.  
**Prerequisite(s):**  
- CIVE 210 and ENGR 001; and  
- one of CIVE 200, CIVE 200, CIVE 350, CIVE 352, CIVE 360, CIVE 370, CIVE 385, CSC 349A, ENGR 001; and  
- 6 units of 400-level CIVE courses or ENGR 004.

#### CIVE 370  
**Units:** 1.5  
**Hours:** 3-0-0  
**Construction and Project Management**  
Construction engineering: project definition and organization; planning; scheduling, control and management of resource allocation; engineering economics; cost estimation and construction econometrics; documentation and reporting systems.  
**Prerequisite(s):**  
- Either ENGR 110, or ENGR 112 and ENGR 135; and  
- Either ENGR 120, or ENGR 121 and ENGR 240.

#### CIVE 385  
**Units:** 1.5  
**Hours:** 3-1.5-1  
**Geotechnical Engineering**  
Composition, structure and physical properties of soil and rock; groundwater flow; stress in soil; compressibility behaviour, consolidation and settlement analysis; shear strength of soils; rock failure analysis, state of stress in earth's crust, stresses and deformations in rocks, including elastic, plastic, and time-dependent behaviour, impact of geologic discontinuities on rock strength. Site investigation, design, construction aspects of shallow foundations, calculation of settlements in soils, piled foundations, earth pressure calculations, earth retaining structures, slope stability analysis.  
**Prerequisite(s):**  
- CIVE 220 or MECH 220; and  
- CIVE 285.

#### CIVE 400  
**Units:** 2.0  
**Hours:** 1-9-0  
**Cross-disciplinary Capstone Design Project**  
Team or individual design project. Key sustainability metrics; integration of fundamentals acquired in mathematics, science, engineering, and complementary studies. A project proposal, a progress report, an oral presentation, and a comprehensive final report are required.  
**Prerequisite(s):**  
- All of CIVE 310, CIVE 315, CIVE 340, CIVE 345, CIVE 350, CIVE 351, CIVE 352, CIVE 360, CIVE 370, CIVE 385, CSC 349A, ENGR 001; and  
- 6 units of 400-level CIVE courses or ENGR 004.

#### CIVE 410  
**Units:** 1.5  
**Hours:** 3-1.5*-0  
**Solid Waste, Air, and Water Pollution**  
Urban sources of air and water pollution, acute and chronic health effects of pollution taught through case studies; environmental quality standards and compliance criteria in BC and Canada; air and water quality modelling for prediction, introduction to software; integrated waste management and design, reduce, reuse, recycle, resource recovery and utilization, composting, fundamentals of waste degradation and disposal, geo-environmental aspects of landfill design, leachate and gas management at landfills.  
* Indicates a 3-hour laboratory taken by students on alternate weeks.  
**Prerequisite(s):** CIVE 310.

#### CIVE 411  
**Units:** 1.5  
**Hours:** 3-0-0  
**Resilient Smart Cities**  
The resilient smart cities context and the relationship to urban sustainability, smart city tools, applications and systems; all hazards risk assessment and the evolving cyber-physical threat; operational and strategic urban resilience planning processes in general and for smart city systems.  
*Note:* Students in other programs may request permission to register in the course.  
**Prerequisite(s):** Minimum fourth-year standing in the Civil Engineering program; or  
permission of the department.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
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<td>CIVE 210, CIVE 352</td>
<td>Infrastructure Engineering for Indigenous Communities</td>
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<td>CIVE 421</td>
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<td>CIVE 444</td>
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<td>CIVE 310</td>
<td>Water and Sanitation for Developing Countries</td>
</tr>
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<td>CIVE 451</td>
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<td>CIVE 310, CIVE 351, CIVE 352, CIVE 360, CIVE 385</td>
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<td>CIVE 453</td>
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<td>CIVE 350</td>
<td>Building and District Energy Simulation</td>
</tr>
<tr>
<td>CIVE 456</td>
<td>1.5</td>
<td>3-1.5*</td>
<td>CIVE 350</td>
<td>Sustainability and Advanced Concrete Technology</td>
</tr>
</tbody>
</table>

* Indicates a 3-hour laboratory taken by students on alternate weeks.
CIVE 457 - Behaviour and Design of Steel Structures

The behaviour and design of trusses, frames, members and connections in steel building and bridge structures. Ultimate strength, stability, and postbuckling are emphasized in topical examples including: plate girders, composite steel/concrete girders, second-order frame behaviour, high-strength bolted and welded framing connections. Special topics including concrete filling, fire protection and plastic analysis of hallow structural section connections are also covered. Canadian design standards and the Limit States Design concepts are used.

Note: Students with equivalent basic steel design course experience may request permission to register in the course.

Prerequisite(s):
• CIVE 351, or
• permission of the department.

CIVE 460 - Intelligent Transportation Systems

Traffic safety engineering, specific planning policies or other infrastructure investments to design places and networks consistent with the goals and objectives of community planning; transportation design in remote communities including ice roads and safety issues; intelligent transportation systems; design of public transit systems, mountain highway engineering.

Prerequisite(s): CIVE 360.

CIVE 480A - Special Topics

Some topics may require laboratory work as well as lectures.

* Lab hours may vary depending on the topic.

Notes:
• Credit will be granted for only one of CIVE 480A, CIVE 480B (if taken in the same topic), CIVE 480C (if taken in the same topic), CIVE 480D (if taken in the same topic), CIVE 480E (if taken in the same topic), CIVE 480F (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s):
• Minimum third-year standing; and
• additional prerequisites set by department depending upon topic.

CIVE 480B - Special Topics

Some topics may require laboratory work as well as lectures.

* Lab hours may vary depending on the topic.

Notes:
• Credit will be granted for only one of CIVE 480B, CIVE 480A (if taken in the same topic), CIVE 480C (if taken in the same topic), CIVE 480D (if taken in the same topic), CIVE 480E (if taken in the same topic), CIVE 480F (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s):
• Minimum third-year standing; and
• additional prerequisites set by department depending upon topic.

CIVE 480C - Special Topics

Some topics may require laboratory work as well as lectures.

* Lab hours may vary depending on the topic.

Notes:
• Credit will be granted for only one of CIVE 480C, CIVE 480A (if taken in the same topic), CIVE 480B (if taken in the same topic), CIVE 480D (if taken in the same topic), CIVE 480E (if taken in the same topic), CIVE 480F (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s):
• Minimum third-year standing; and
• additional prerequisites set by department depending upon topic.

CIVE 480D - Special Topics

Some topics may require laboratory work as well as lectures.

* Lab hours may vary depending on the topic.

Notes:
• Credit will be granted for only one of CIVE 480D, CIVE 480A (if taken in the same topic), CIVE 480B (if taken in the same topic), CIVE 480C (if taken in the same topic), CIVE 480E (if taken in the same topic), CIVE 480F (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s):
• Minimum third-year standing; and
• additional prerequisites set by department depending upon topic.

CIVE 480E - Special Topics

Some topics may require laboratory work as well as lectures.

* Lab hours may vary depending on the topic.

Notes:
• Credit will be granted for only one of CIVE 480E, CIVE 480A (if taken in the same topic), CIVE 480B (if taken in the same topic), CIVE 480C (if taken in the same topic), CIVE 480D (if taken in the same topic), CIVE 480F (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s):
• Minimum third-year standing; and
• additional prerequisites set by department depending upon topic.

CIVE 480F - Special Topics

Some topics may require laboratory work as well as lectures.

* Lab hours may vary depending on the topic.

Notes:
• Credit will be granted for only one of CIVE 480F, CIVE 480A (if taken in the same topic), CIVE 480B (if taken in the same topic), CIVE 480C (if taken in the same topic), CIVE 480D (if taken in the same topic), CIVE 480E (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s):
• Minimum third-year standing; and
• additional prerequisites set by department depending upon topic.

CIVE 485 - Foundation Engineering


Note: Credit will be granted for only one of CIVE 485, CIVE 480A (if taken in the same topic), CIVE 480B (if taken in the same topic), CIVE 480C (if taken in the same topic), CIVE 480D (if taken in the same topic), CIVE 480E (if taken in the same topic), CIVE 480F (if taken in the same topic).

Prerequisite(s):
• CIVE 220 or MECH 220; and
• CIVE 285.

CIVE 499 - Research Project

A research project and technical paper/report supervised by faculty in the Department of Civil Engineering. Prior to registration, the project objectives, methods and deliverables must be established in collaboration with supervisor(s) and approval by the Department (will require 75% or more Engineering Science or Design content).

Note: May be taken only once.

Prerequisite(s):
• Minimum GPA of 6.0 in all of Year 3 Civil Engineering courses; and
• permission of the department.

COM

Commerce

Peter B. Gustavson School of Business

Courses offered by the Peter B. Gustavson School of Business are also found under the following course codes: ENT (Entrepreneurship), SMGT (Services Management), IB (International Business), MBA (Master's of Business Administration).

COM 100 - Introduction to Business Decision Making

Overview course designed to introduce fundamentals of business in Canada. Topics covered will include business principles such as accounting, finance and marketing as well as a discussion of the political and social realities facing commercial ventures in Canada.

Note: Credit will be granted for only one of COM 100, COM 290, COM 390.
COM 202  Units: 1.5  Hours: 3-0-0  
Financial Accounting I
Introduction to the construction and interpretation of financial statements prepared primarily for use by parties external to the issuing firm or other business entity. Emphasis on accounting policies and their underlying rationale as well as on accounting techniques.

Notes:
- Credit will be granted for only one of COM 202, COM 253, COM 270.
- Not open to BCom students; not intended for students seeking entry to Bachelor of Commerce program.
- Credit will not be granted toward Bachelor of Commerce program.

Prerequisite(s): Minimum second-year standing.

COM 204  Units: 0  Hours: 3-0-0  
Introduction to Professional Practice
Preparation and training to undertake Commerce co-op work terms. Includes preparation of cover letters and resumes, skills assessment and analysis, networking and interview skill development and career planning.

Prerequisite(s):
- Minimum second-year standing; and
- Admission to BCom program; or
- Permission of the school.

Grading: INP, COM, N, F.

COM 205  Units: 0  Hours: 3-0-1  
Professional Skills Development
Designed to ensure all Commerce students develop foundation, communication, personal and professional skills. The foundation skills include those necessary to complete the program of studies in the Gustavson School of Business. Other topics will include presentations, public speaking, teamwork, time management, networking, business etiquette and community involvement. Students also develop methods to help establish a career mission. This is a non-credit but mandatory course for all Bachelor of Commerce students.

Note: Taken during BCom Program core, 0.75 fee units per term over both winter terms.

Prerequisite(s): Admission to BCom program core.

Grading: INP, COM, N, F.

COM 206B  Units: 1.5  Hours: 3-0-0  
Business English and Communications - Level II
Development and enhancement of skills in written business communication, oral business communication, and non-verbal communication. Students will learn how to develop efficient use of verbal and non-verbal skills in business situations; be able to use language to convey specific messages to intended audiences; develop and use techniques for information management. Perfection of grammar, written communication and increasing vocabulary.

Note: Open only to international students and incoming Gustavson School of Business exchange program students and international students in the Bachelor of Commerce program; enrolment is based on comprehension level as determined by the instructor.

COM 206C  Units: 1.5  Hours: 3-0-0  
Business English and Communications - Level III
Development and enhancement of skills in written business communication, oral business communication, and non-verbal communication. Students will learn how to develop efficient use of verbal and non-verbal skills in business situations; be able to use language to convey specific messages to intended audiences; develop and use techniques for information management. Concentration is on pronunciation, building vocabulary and comprehension of complex literature.

Note: Open only to international students and incoming Gustavson School of Business exchange program students and international students in the Bachelor of Commerce program; enrolment is based on comprehension level as determined by the instructor.

COM 220  Units: 1.5  Hours: 3-0-0  
Organizational Behaviour
Introduction to behaviour concepts and tools that will assist the manager in both understanding behaviour in organizations and improving organizational effectiveness. Topics include individual motivation, perception and communication, managerial roles, schools of management theories, group processes and team work, leadership, supervision, and introduction to organizational structure, processes and culture.

Notes:
- Credit will be granted for only one of COM 220, COM 120, PSYC 334, PSYC 334A, SOCI 323, SOCI 324.
- Not available for supplemental.
- Not open to BCom students; not intended for students seeking entry to Bachelor of Commerce program.
- Credit will not be granted toward the Bachelor of Commerce program.

Prerequisite(s): Minimum second-year standing.

COM 240  Units: 1.5  Hours: 3-0-0  
Management Finance
An introduction to corporate financial management. Provides a framework, concepts, and tools for analyzing financial decisions. Main topics include discounted cash flow techniques, financial statement analysis, capital budgeting, valuation of stocks and bonds, tax environments, risk and return tradeoffs, diversification, capital market efficiency, and an introduction to international finance issues.

Notes:
- Not available for supplemental.
- Not open to BCom students; not intended for students seeking entry to Bachelor of Commerce program.
- Credit will not be granted toward the Bachelor of Commerce program.

Pre- or Corequisite(s):
- One of COM 202, COM 253, COM 270; and
- minimum second-year standing.

COM 250  Units: 1.5  Hours: 3-0-0  
Fundamentals of Marketing
Product design and management, distribution channels, and marketing communications are examined as key elements of the marketing mix. Consumer buyer behaviour, sales force management, and marketing research are other topics to be reviewed.

Notes:
- Not available for supplemental.
- Not open to BCom students; not intended for students seeking entry to Bachelor of Commerce program.
- Credit will not be granted toward the Bachelor of Commerce program.

Prerequisite(s): Minimum second-year standing.

COM 270  Units: 1.5  Hours: 3-0-0  
Financial and Management Accounting For Specialists
Introduction to the construction and interpretation of financial statements and the development and use of accounting information for management planning and control, including the development of cost information.

Notes:
- Credit will be granted for only one of COM 270, COM 210.
- Not available for supplemental.
- Not open to BCom students; not intended for students seeking entry to Bachelor of Commerce program.
- Credit will not be granted toward the Bachelor of Commerce program.

Prerequisite(s): Minimum second-year standing.

COM 290  Units: 1.5  Hours: 3-0-0  
Introduction to Canadian Business
An overview of the Canadian business system. An examination of the economic, geographical, historical, legal, and political factors. Examples may include the business functions of production, marketing, finance and human resources. Emphasis on management case studies, oral presentations and working in groups.

Notes:
- Credit will be granted for only one of COM 290, COM 100, COM 390.
- Open only to international students and pre-Commerce Business students.

COM 302  Units: 1.5  Hours: 3-0-0  
Legal Environment of Business
Examines a number of legal principles that affect businesses and other organizations (e.g. non-profit organizations) in our society. Topics include the law of tort, contract, business organizations and property. Focuses on specialized areas such as the law of negligence, international business transactions, employment contracts, intellectual property and fiduciary obligations.

Notes:
- Credit will be granted for only one of COM 302, COM 402.
- Not open to BCom students; not intended for students seeking entry to Bachelor of Commerce program.

Prerequisite(s): Minimum second-year standing.
COM 315  Units: 1.5  Hours: 3-0-0  
Financial Accounting
Introduces financial accounting concepts in a manner that prepares managers to use information presented in Balance Sheets, Income Statements, and Cash Flow statements for making relevant financial decisions in a global environment. In addition to a review of the above financial statements, topics include understanding financial statement analysis.
Prerequisite(s): Admission to BCom program core.

COM 316  Units: 1.5  Hours: 3-0-0  
Management Accounting
Presents an introduction to the managerial accounting tools and models available to managers for use in their planning, controlling, and global decision-making functions. Topics include the behaviour of costs, the differential concept, short-run choices, cost-volume-profit relationships, variance analysis, and the management control process.
Prerequisite(s): Admission to BCom program core.

COM 317  Units: 1.5  Hours: 3-0-0  
Management Accounting I
Introduces the development and use of accounting information for management planning and control, and the development of cost information for financial reports.

COM 321  Units: 1.5  Hours: 3-0-0-1  
Leading People and Organizations I
Examines the behaviours of individuals, groups, and organizations, and the issues associated with managing the employment relationship. Topics include leadership, values, motivation, recruitment and hiring, feedback, communication, conflict management, and teams. Prepares students to undertake Commerce co-op work terms through related tutorials. This will include the preparation of cover letters and resumes, skills assessment and analysis, networking and interview skill development, and career planning.
Prerequisite(s): Admission to BCom program core.

COM 322  Units: 1.5  Hours: 3-0-0-1  
Leading People and Organizations II
Examines the behaviours of individuals, groups, and organizations from an organizational design perspective, and the issues associated with managing the employment relationship. Topics include organizational goals, structure and growth; organizational culture; power and politics; retention practices; performance review; compensation; and selected employment and human rights legislation.
Prerequisite(s): Admission to BCom program core.

COM 331  Units: 1.5  Hours: 3-0-0  
Introduction to Management Information Systems
The use of computer-based information systems in achieving the information objectives of the organization. Fundamentals of hardware, software, networks, electronic commerce and business applications. Focus is on the responsible use of information systems and technology to support business strategy, operations and decision making. Includes the use of, but not instruction in, computer-based productivity tools.
Prerequisite(s): Admission to BCom program core.

COM 341  Units: 1.5  Hours: 3-0-0  
Operations Management
Introduction to both the broad strategic and tactical decisions of operations management. Topics covered include project planning/management, process choice, process flow analysis, location and layout of facilities, capacity and resource planning, job design, inventory control, scheduling, supply chain management, quality management and quality control. The link between operations management and other functional areas of business are evaluated.
Prerequisite(s): Admission to BCom program core.

COM 351  Units: 1.5  Hours: 3-0-0  
Marketing Principles and Management
Students will learn and apply basic marketing theory, concepts, and tools to make and defend key marketing decisions relating to: market segmentation, positioning, product development and management, pricing, distribution management, and marketing communications. Emphasis will be placed on both the fundamental principles of marketing and their application in a variety of industries and international contexts.
Prerequisite(s): Admission to BCom program core.

COM 361  Units: 1.5  Hours: 3-0-0  
International Business
Focuses on key aspects of doing business globally, including: the forces of globalization, how business conditions and practices differ from country to country; free trade and protectionism; exporting, licensing, and foreign direct investment; exchange rates and the complications that arise when dealing with multiple currencies; and strategic and organizational issues for firms operating in international markets.
Prerequisite(s): Admission to BCom program core.

COM 362  Units: 1.5  Hours: 3-0-0  
Business and Sustainability
Introduces the changing role of business as managers face many social, political, economic, and ecological forces. Examines how these forces pressure businesses to question existing traditional operating approaches. Introduces key concepts of corporate social responsibility, business and sustainability, sustainable development, and social entrepreneurship. Examines how firms respond to calls for more sustainable economic, social, and ecological operating approaches. Introduces concepts, tools and frameworks that assist businesses to effect transition to more sustainable practices.
Note: Credit will be granted for only one of COM 362, COM 305 (if taken prior to September 2008), COM 361 (if taken prior to September 2008).
Prerequisite(s): Admission to BCom program core.

COM 371  Units: 1.5  Hours: 3-0-0  
Management Finance
Serves as an introduction to corporate financial management. The primary objective is to provide a framework, concepts, and tools for analyzing financial decisions. Main topics include discounted cash flow techniques, the valuation of financial assets, financial statement analysis, capital budgeting decisions, risk and return tradeoffs, diversification, capital market efficiency, and the cost of capital to the firm.
Prerequisite(s): Admission to BCom program core.

COM 390  Units: 1.5  Hours: 3-0-0  
Canadian Business Environment
An examination of the cultural, economic, geographical, historical, legal, and political factors influencing the environment of doing business in Canada.
Note: Credit will be granted for only one of COM 390, COM 100, COM 290.
Prerequisite(s): Admission to BCom program core.

COM 400  Units: 1.5  Hours: 3-0-0  
Strategic Management
A series of integrative management case studies that illustrate the application and integration of management functions. Focuses on organizational strategy and strategic management including the process of choosing and defining goals, formulating and implementing strategies, and monitoring strategic performance. Normally students are required to take this course in their final academic term.
Prerequisite(s): Admission to BCom program core.

COM 402  Units: 1.5  Hours: 3-0-0  
Legal Issues in Management
An examination of several aspects of commercial law that are particularly relevant to those who own, manage, or are employed by a business enterprise. Subjects that will be addressed include common law doctrines (such as contract and negligence), legislation (such as the Business Corporations Act) and other legal principles that affect business decision making in a global environment.
Note: Credit will be granted for only one of COM 402, COM 302.
Prerequisite(s):
• permission of the school.

COM 403  Units: 1.5  Formerly: also MBA 558
Employment Law
Examines the constitutional, legislative and common law rules that govern the employment relationship in both unionized and nonunion workplaces. Examines the entire employment relationship including pre-hire issues, employer/ee rights and obligations, termination of employment and post-termination obligations.
Note: Credit will be granted for only one of COM 403, MBA 450 (if taken in the same topic), MBA 558.
Pre- or Corequisite(s):
• COM 302 or COM 402; and
• minimum fourth-year standing; or
• permission of the school.
COM 405  Units: 0  Hours: 3-0-0
Career Preparation Across Borders
Designed to ensure that all Commerce students develop career preparation skills, including portfolio presentation, career planning and preparation skills. Intended to complement each student’s career goals as identified in COM 205. Content will vary and may include: skills training, portfolio development, career assessment, networking events. This is a non-credit but mandatory course for all Bachelor of Commerce students.
Note: Normally takes three consecutive terms to complete. 1.5 fee units.
Prerequisite(s):
•  permission of the school.
•  minimum fourth-year standing; or
•  Either COM 220, or COM 321 and COM 322; and
Prerequisite(s):
•  permission of the school.

COM 410  Units: 1.5  Hours: 3-0-0
Also: MBA 521
Leadership Strategies
An examination of leadership in a variety of environments: corporate, the military, and the public sector. Identifies the characteristics of a leader and instills an interest in and awareness of this vital organizational skill. Includes a review of leadership research from a historical perspective as well as current theory on transformational leadership. Experiential exercises, case studies and role playing techniques are employed to demonstrate leadership skills.
Note: Credit will be granted for only one of COM 410, MBA 521.
Prerequisite(s):
•  COM 220 or COM 321; and
•  minimum fourth-year standing; or
•  permission of the school.

COM 415  Units: 1.5  Hours: 3-0-0
Also: MBA 522
Business and the Internet
Combines a hands-on project for an existing organization with seminar style classes and invited speakers. Covers competitive advantages of electronic communications technologies; fundamentals of data communications; effective use of the Internet for business; and security, privacy and intellectual property issues related to online business.
Note: Credit will be granted for only one of COM 415, MBA 522.
Prerequisite(s):
•  COM 331; and
•  minimum fourth-year standing; or
•  permission of the school.

COM 420  Units: 1.5  Hours: 3-0-0
Managing in a Unionized Environment
An overview of the employment relationship and the labour relations process in unionized settings. The development of the Canadian Labour Movement, functions of trade unions, labour legislation, interest and rights disputes, and dispute resolutions are examined. Examines labour relations in the private sector, public sector and in the arena of professional sports.
Prerequisite(s):
•  Either COM 220, or COM 321 and COM 322; and
•  minimum fourth-year standing; or
•  permission of the school.

COM 425  Units: 1.5  Hours: 3-0-0
Also: MBA 531
Taxation for Managers
Reviews the fundamentals of the income tax system for all taxpayers. It then examines tax planning techniques that maximize cash flow and return on investment. While the course emphasizes business decisions, it also includes personal financial planning issues.
Note: Credit will be granted for only one of COM 425, MBA 531.
Prerequisite(s):
•  One of COM 202 with a minimum grade of C+, COM 270 with a minimum grade of C+, COM 315 with a minimum grade of C+; and
•  minimum fourth-year standing; or
•  permission of the program.

COM 426  Units: 1.5  Hours: 3-0-0
Management Accounting II
Focuses on the key tools that management accounting brings to decision making. It covers both the quantitative and qualitative aspects in an effective management control system including such topics as cost behaviour, cost allocation, activity based costing, flexible budgeting and variance analysis. In addition, the balanced scorecard, variable and absorption costing models, and alternative inventory management systems are examined.
Note: Credit will be granted for only one of COM 426, COM 450 (if taken in the same topic).
Prerequisite(s):
•  One of COM 270 with a minimum grade of C+, COM 316 with a minimum grade of C+, COM 317 with a minimum grade of C+; and
•  minimum fourth-year standing; or
•  permission of the program.

COM 435  Units: 1.5  Hours: 3-0-0
Corporate Relations and Responsibilities
Examines the relations of a corporation to its stakeholders - customers, stockholders, government, unions and society at large. Especially important are a firm's code of ethics and conduct, written and unwritten, which governs its relationships and spells out its responsibilities to its various publics. Students will study and discuss a number of cases which illustrate how a variety of organizations have responded to this challenge.
Note: Credit will be granted for only one of COM 435, COM 450 (if taken in the same topic).
Prerequisite(s):
•  COM 220 or COM 321; and
•  minimum fourth-year standing; or
•  permission of the school.

COM 445  Units: 1.5  Hours: 3-0-0
Also: MBA 524
Corporate Finance
Serves as a continuation of the introductory finance course to more advanced applications of the techniques, concepts, and tools of corporate finance. Main topics include short- and long-term financial management, cost of capital, capital structure, financial leverage, dividends policy, working capital management, leasing, mergers and acquisitions, and the use of derivatives for risk management.
Note: Credit will be granted for only one of COM 445, ECON 454, MBA 524.
Prerequisite(s):
•  COM 240 or COM 371 with a minimum grade of C+; and
•  minimum fourth-year standing; or
•  permission of the program.

COM 446  Units: 1.5  Hours: 3-0-0
Investments
Covers the fundamental principles that are crucial to understanding the securities traded in international financial markets. The main topics include market structure, information efficiency, asset pricing models, valuation and trading of stocks, bonds, options and futures.
Note: Credit will be granted for only one of COM 446, COM 450 (if taken in the same topic), ECON 435, MBA 525.
Prerequisite(s):
•  COM 240 or COM 371; and
•  minimum fourth-year standing; or
•  permission of the school.

COM 450  Units: 1.5  Hours: 3-0-0
Selected Topics in Management
The course content will reflect the interests of the faculty members and current issues in business and industry. Topics may include non-traditional forms of work organizations, leadership, organizational development, and development of managerial skills.
Note: May be taken more than once for credit in different topics with permission of the school to a maximum of 6 units.
Prerequisite(s):
•  minimum fourth-year standing; or
•  permission of the school.

COM 460  Units: 1.5  Hours: 3-0-0
Managing in Diverse Environments
Conducted overseas as part of INTEP. An examination in an overseas setting of the development and trends in various business practices.
Prerequisite(s): Admission to Business Exchange program.
Grading: INP, N, F, standard grade.

COM 470  Units: 1.5  Hours: 3-0-0
Business Research
Business research project for students participating in INTEP. While overseas on exchange, students will conduct a research project on a specific business and management topic related to the country they are visiting. Projects must be planned and approved by the instructor prior to departure. Upon return, a written report is required.
Prerequisite(s): Admission to Business Exchange program.
Grading: INP, N, F, standard grade.
COM 480 - CSC 103

COM 480
Units: 1.5
Hours: 3-0-0
International Study
Conducted overseas as part of INTEP. An overseas immersion in cultural orientation, cultural sensitivity, on-site company visits with intensive foreign language training.
Note: May be taken more than once for credit in different topics with permission of the school to a maximum of 4.5 units.
Prerequisite(s): Admission to Business Exchange program.
Grading: INP, N, F, standard grade.

CSC

Canadian Studies
Diploma Program in Canadian Studies Interdisciplinary Programs

CS 001 Units: 0
Introduction to the Place: the Geography and History of Canada
This non-credit course must be taken by all students in the Program prior to 101 and 102.
Grading: COM, INC.

CS 101 Units: 1.5 Hours: 3-0-0
Introduction to Canadian Culture
An introduction to the multidisciplinary study of cultural structures and expressions in Canada, including such forms as literature, the fine arts, mass media and communications.
Notes: Credit will be granted for only one of CS 101, CS 100A.
A required course for the Diploma program in Canadian Studies.

CS 102 Units: 1.5 Hours: 3-0-0
Introduction to Canadian Contemporary Issues
An introduction to contemporary issues in Canadian society including politics, economic and social structures, cultural and arts policy, science and technology, multiculturalism, bilingualism, First Nations, and women’s issues.
Notes: Credit will be granted for only one of CS 102, CS 100B.
A required course for the Diploma program in Canadian Studies.

CS 200 Units: 1.5 Hours: 3-0-0
Topics in Canadian Studies
Topics of current interest including Canadian art, film, culture and social, political and environmental issues.
Notes: May be taken more than once for credit in different topics with permission of the school.
A required course for the Diploma program in Canadian Studies.

CS 201 Units: 1.5 Hours: 3-0-0
Issues and Ideas in Canadian Environmentalism
An exploration of the connections between Canadian culture and environment including an examination of our cultural worldview both past and present. Investigates how our sense of nation, national destiny and religious, cultural and ethnic inheritance has shaped and continues to shape our ideas of the wilderness, the Canadian environment and environmental issues.

CSC

Computer Science
Department of Computer Science
Faculty of Engineering
Courses offered by the Faculty of Engineering are also found under the following course codes: BME (Biomedical Engineering), CEE (Civil Engineering), ECE (Electrical and Computer Engineering), ENGR (Engineering), MECH (Mechanical Engineering) and SENG (Software Engineering).

CSC 100
Units: 1.5 Hours: 3-1-0
Elementary Computing
An introduction to computing for the nonspecialist. Topics covered include the basic structure of a digital computer system, applications of computers in the home, office and industry, and implications of computers for society.
Notes: Not open for credit to students registered in or with credit in any of CSC 105, CSC 106, CSC 110, CSC 111, CSC 212, HINF 130, HINF 171, HINF 172.

CSC 101
Units: 1.5 Hours: 3-0-0
Untangling the Web by Analyzing and Architecting Digital Solutions
An introduction to coding-related skills for non-computer science students interested in entering the tech sector. Fundamentals of user experience, social media, digital marketing, privacy, security and web-traffic analytics are considered in case studies involving typical web-based applications. Topics include browser-based user interface design, data modelling, management and querying, deploying and testing cloud-based solutions. Students will get hands-on experience building and analyzing real world applications.
Notes: Not open for credit to students enrolled in a Computer Science or Engineering program.

CSC 103
Units: 1.5 Hours: 1-2-0
Introductory Programming and Software Development
An introduction to the technical competencies in software development. Topics include an introduction to basic computing, problem solving and programming concepts including: variables, functions, objects, conditionals and loops; software development methodologies; version control systems; software tools; scripting languages; and collaboration tools and techniques. An ongoing collaborative project gives experience with building and deploying a software application.
Prerequisite(s): Permission of the Department.
Grading: COM, N, F.
CSC 105
Computers and Information Processing
An introduction to business computing. Topics covered include the basic structure of digital computer systems, microcomputers, word processing, spreadsheets, database systems, communications, networks and introductory programming. In the laboratory, students will receive hands-on experience with microcomputers and software packages for business applications.

Notes:
• Not open for credit to students registered in or with credit in CSC 106, CSC 110, CSC 111, CSC 212, HINF 130, HINF 171, HINF 172.
• Intended primarily for students undertaking a degree in Business or Economics; students considering a Major in Computer Science should enroll in CSC 106 or CSC 110 rather than CSC 105.

Units: 1.5
Hours: 3-1-0

CSC 106
Formerly: CSC 212
The Practice of Computer Science
A survey of aspects of the application of Computer Science. Topics include: algorithms; complexity and decidability; programming; hardware; software engineering; selected interdisciplinary topics; ethical and societal considerations. Optional topics include: cryptography; security; databases; human computer interaction; graphics.

Notes:
• Credit will be granted for only one of CSC 106, CSC 112, CSC 212.
• Not open to third- or fourth-year students in Computer Science or Software Engineering program.

Units: 1.5
Hours: 3-1-0

CSC 110
Fundamentals of Programming I
Introduction to designing, implementing, and understanding computer programs using an object-oriented programming language. Topics include an introduction to computing and problem solving, selection and iteration, arrays and collections, objects and classes, top-down design and incremental development.

Note: Credit will be granted for only one of CSC 110, CSC 111.

Prerequisite(s): One of Foundations of Math 12, Mathematics 12, Pre-Calculus 12, MATH 100, MATH 102, MATH 109, MATH 120.

Units: 1.5
Hours: 3-2-0

CSC 111
Fundamentals of Programming with Engineering Applications
Fundamentals of computer programming with real-world engineering examples using an imperative programming language. Topics include variables, data types, statements, control structures, functions, parameter passing mechanisms, expressions, data structures, files, pointers, storage allocation, elementary searching and sorting, recursion, encapsulation, modularity, incremental development, testing and debugging.

Note: Credit will be granted for only one of CSC 111, CSC 110.

Prerequisite(s): One of Foundations of Math 12, Mathematics 12, Pre-Calculus 12, MATH 100, MATH 109, MATH 120.

Units: 1.5
Hours: 3-2-0

CSC 115
Fundamentals of Programming II
Techniques, methods, and tools for systematic development and maintenance of software systems and documentation; basic algorithms and data structures; and fundamental concepts of object-oriented programming. Topics include control and data abstraction, modularization, abstract data types, layers of abstraction, information hiding, separation of concerns, type checking, program design, separate compilation, software libraries, techniques for the development of high-quality software components, program understanding.

Note: Credit will be granted for only one of CSC 115, CSC 116, CSC 160.

Prerequisite(s): CSC 110 or CSC 111.

Units: 1.5
Hours: 3-2-0

CSC 116
Fundamentals of Programming with Engineering Applications II
Development of software for real-world engineering applications using both imperative and object-oriented approaches. Topics include basic algorithms and data structures, abstract data types, generic collection types, design of large programs, using and building software libraries, user interfaces, debugging techniques, software documentation.

Note: Credit will be granted for only one of CSC 116, CSC 117, CSC 160.

Prerequisite(s): CSC 110 or CSC 111.

Units: 1.5
Hours: 3-2-0

CSC 130
World Wide Web and Mobile Applications
An introduction to the Internet, the World Wide Web (WWW) and mobile communications technologies. Topics include: HTML, web-page design tools; development of simple mobile applications. Additional topics selected from: location-aware e-commerce; multimedia chat services; mobile social networking; software development for smartphone and tablets. Emphasis is on relating Internet technologies to the role they play enabling mobile computing.

Notes:
• Credit will be granted for only one of CSC 130, SENG 130.
• Not open to third- or fourth-year students in Computer Science or Software Engineering program.

Units: 1.5
Hours: 3-1-0

CSC 167
Game Strategy, Interaction and Design
This multi-disciplinary course explores computer games and their applications through design exercises and game playing. Topics include: game console architectures, entertainment media, history of academic and application-based simulations, role of artificial intelligence research, history of computer graphics, history of sound technologies, evolution of computer game design, networked games, virtual reality, and history of video and computer game industries.

Notes:
• Not open to students with credit in CSC 205 or CSC 305.
• Not open to third- and fourth-year students in Computer Science or Software Engineering program.

Units: 1.5
Hours: 3-1-0

CSC 205
2D Computer Graphics and Image Processing
Vectors, parametric/implicit, RGB colours, lines, circles, Fourier analysis, convolution, image filtering, sampling, aliasing and antialiasing, compression, UI for image processing.

Pre- or Corequisite(s):
• MATH 151 or MATH 211, and
• SENG 265.

Units: 1.5
Hours: 3-1-0

CSC 225
Algorithms and Data Structures I

Prerequisite(s):
• CSC 115 or CSC 116, and
• MATH 122.

Units: 1.5
Hours: 3-1-0

CSC 226
Formerly: CSC 326
Algorithms and Data Structures II
Advanced techniques for design, analysis, and implementation of algorithms and data structures with an introduction to algorithm engineering. Algorithmic design paradigms: greedy, divide-and-conquer, dynamic programming, backtracking, branch and bound. Advanced Analysis techniques, such as amortization. Advanced data structures: hashing, disjoint sets. Advanced graph algorithms: network flow, connectivity, minimum spanning trees, shortest paths. Mathematical tools: graphs and digraphs; graph properties, planar graphs, networks; discrete probability, counting techniques, recurrences.

Note: Credit will be granted for only one of CSC 226, CSC 326.

Prerequisite(s): CSC 225.

Units: 1.5
Hours: 3-1-0

CSC 230
Introduction to Computer Architecture
The architecture of computer systems including concepts such as CPU, memory, buses, I/O, cache, instruction sets, interrupt processing, pipelining, performance. Families of processors, CISC, RISC. Memory organization and management (including virtual memory, protection, segmentation and paging). Computer arithmetic. The use of assemblers, linkers and loaders. Assembly language programming and its interface with a high-level language (C).

Note: Credit will be granted for only one of CSC 230, CENG 255, ECE 255.

Prerequisite(s): CSC 115 or CSC 116.

Units: 1.5
Hours: 3-1.5-0
CSC 299  Units: 1.5  Hours: 0-6-0
Undergraduate Directed Project
Under the supervision of faculty, students will participate in projects that will include both their particular areas of interest and other aspects of Computer Science.
Prerequisite(s):
• Two of CSC 115 with a minimum grade of B+, CSC 226 with a minimum grade of B+, CSC 230 with a minimum grade of B+, and permission of the department.

CSC 305  Units: 1.5  Hours: 3-1-0
Introduction to Computer Graphics
Introduction to computer graphics. Principles of raster image generation. Example of a graphics API. Graphics primitives, data structures. Coordinate systems, affine transformations and viewing of graphical objects. Introduction to rendering including shading models and ray tracing. Introduction to modelling including polygon meshes, subdivision, and parametric curves and surfaces, colour.
Note: Credit will be granted for only one of CSC 305, CSC 405.
Prerequisite(s):
• CSC 226 and SENG 265; and
• MATH 110 or MATH 211.

CSC 320  Units: 1.5  Hours: 3-0-1
Foundations of Computer Science
A survey of formal models and results that form the theoretical foundations of computer science; typical topics include finite automata, Turing machines, undecidable problems, context free languages and computational complexity.
Prerequisite(s): CSC 226.

CSC 322  Units: 1.5  Hours: 3-0-0
Logic and Programming
Practical applications of logic in computer science and its relevance in such areas as software engineering, artificial intelligence and circuit design theory. Topics include: propositional expressions and circuits, reading and writing first order logic, predicate logic as a relational query language, knowledge representation, PROLOG, and other related topics.
Prerequisite(s):
• CSC 115 or CSC 116; and
• MATH 122 or PHIL 203.

CSC 330  Units: 1.5  Hours: 3-0-0
Programming Languages
Fundamental concepts of programming in different paradigms. Topics include syntax, grammar, semantics, scope, extent, type construction, type checking, type inference, polymorphism, evaluation strategies, functions as values, closures, pattern matching, unification, non-determinism.
Prerequisite(s):
• CSC 226 and SENG 265; and
• One of CSC 230, CENG 255, ECE 255.
Pre- or Corequisite(s): CSC 320 and CSC 360.

CSC 349A  Units: 1.5  Hours: 3-0-0
Numerical Analysis
An introduction to selected topics in Numerical Analysis. Typical areas covered: error analysis, roots of equations, systems of linear equations, linear programming, interpolation, numerical integration, and ordinary differential equations.
Note: Credit will be granted for only one of CSC 349A, CSC 340, MATH 348.
Prerequisite(s):
• CSC 110 or CSC 111; and
• MATH 110 or MATH 211; and
• either MATH 200 and MATH 201, or MATH 202, or MATH 204.

CSC 350  Units: 1.5  Hours: 3-0-0
Computer Architecture
Introduces the basic building blocks of a general purpose computer with emphasis on techniques for speed and performance enhancement. Topics will include: central processor organization, arithmetic algorithms, look-ahead and parallelism, memory hierarchy, control unit and microprogramming, input output devices, case studies of some recent micro, mini, and mainframe computers.
Prerequisite(s): CSC 225 and CSC 230.

CSC 355  Units: 1.5  Hours: 3-2-0
Digital Logic and Computer Organization
Fundamentals of logic design, computer organization and hardware components of computers and embedded systems and the development of a structured design methodology. The use of ASIC and field programmable devices. An introduction to Hardware Description Languages and their implementation, finite state machines, the use of CAD algorithms and tools for system design, and the testing of digital systems. Topics include Boolean algebra, combinational and sequential circuits, memory organization, buses and arithmetic units, basic microprocessor design.
Note: Credit will be granted for only one of CSC 355, CSC 250.
Prerequisite(s):
• One of CSC 230, CENG 255, ECE 255; and
• MATH 122.

CSC 360  Units: 1.5  Hours: 3-0-1
Operating Systems
The major concepts of operating systems and study of the interrelationships between the operating system and the architecture of computer systems. Topics discussed include operating system structures, concurrent programming techniques, cpus scheduling, deadlocks, memory management, file systems and protection.
Prerequisite(s):
• SENG 265; and
• One of CSC 230, CENG 255 or ECE 255.
Pre- or Corequisite(s): CSC 226.

CSC 361  Units: 1.5  Hours: 3-1-0
Computer Communications and Networks
An introduction to concepts in computer communication and networks. Topics will include layered network architectures, packet switching networks, local area networks, protocol design, and network security.
Note: Credit will be granted for only one of CSC 361, CSC 450, CENG 460, ECE 458.
Prerequisite(s):
• SENG 265; and
• One of CSC 230, CENG 255, ECE 255.
Pre- or Corequisite(s): CSC 226.

CSC 370  Units: 1.5  Hours: 3-0-0
Database Systems
The use and operating principles of database management systems. Topics include: data entities and relationships; data modelling using Entity-Relationship Diagrams: hierarchical, network and relational models of databases; query languages; physical representation of data in secondary storage; relational algebra and calculus as applied to the design of databases; security and integrity in the context of concurrent use, and basic ethical issues associated with database design and use.
Note: Credit will be granted for only one of CSC 370, CSC 470, HINF 200, HINF 300.
Prerequisite(s): CSC 226 and SENG 265.

CSC 371  Units: 1.5  Hours: 3-0-0
Data Management and Visualization
This course is intended for non-computer science students who are interested in data management, analysis and visualization. Topics include database design; Structured Query Language (SQL); data analysis with SQL, the R language, and advanced spreadsheets; data visualization; information retrieval; the semantic web. Databases and tools will be reviewed and compared.
Note: May not be counted for credit towards a Computer Science degree or Bachelor of Software Engineering degree.
Prerequisite(s):
• One of Principles of Mathematics 11, MATH 100, MATH 102, MATH 120; and
• minimum third-year standing.

CSC 375  Units: 1.5  Hours: 3-0-0
Introduction to Systems Analysis
The methods and methodologies used in analyzing and designing various types of systems. Topics include: project definition, CASE tools; data gathering, structured analysis and design; man-machine interface; database design; system controls; hardware selection; and system testing, implementation and operation. Students will be assigned to a project team involved in a system study as part of the course.
Prerequisite(s): Either SENG 265, or HINF 130 and HINF 140.
Pre- or Corequisite(s): HINF 140.
CSC 421  Units: 1.5  Hours: 3-0-0
Introduction to Artificial Intelligence
An introduction to the basic concepts and techniques of Artificial Intelligence. The main successes and challenges throughout history will be covered. Topics include heuristics, searching, rule based programming (in LISP and/or Prolog), knowledge representation in standard and nonstandard logics, neural networks and feature spaces. Applications to game playing, natural language processing, and recognition/classification.
Note: Credit will be granted for only one of CSC 421, CENG 420, ECE 470.
Prerequisite(s):
• CSC 226; and
• minimum fourth-year standing.

CSC 422  Units: 1.5  Hours: 3-0-0
Randomized Algorithms
Detailed study, from the algorithmic point of view, of some tractable and intractable graph problems. Some tractable problems are path problems, spanning trees, network flows, matchings, and planarity testing. Some intractable problems are clique, independent set, vertex cover, Hamiltonian cycle, and colouring problems. Various strategies for handling intractable problems are presented including intelligent backtracking, distributed and parallel computing, parameterized complexity, restrictions to graph sub-classes, randomized and approximation algorithms.
Prerequisite(s):
• Either CSC 226, or CSC 225 and MATH 222; and
• minimum third-year standing.

CSC 423  Units: 1.5  Hours: 3-0-0
Graph Algorithms
Basic techniques in design and analysis of randomized algorithms: moments and deviations, Markov chains and random walks, martingales, and algebraic techniques. Other topics include: the probabilistic method, random structures and complexity. Applications are selected from: parallel algorithm, routing networks, combinatorial optimization, data structure, approximate solutions to intractable problems, cryptography, pattern matching, and computational geometry.
Prerequisite(s):
• CSC 226 with a minimum grade of B+; and
• minimum third-year standing.

CSC 424  Units: 1.5  Hours: 3-0-0
Analysis of Algorithms
General techniques for designing and analyzing algorithms; an in-depth examination of several problems and algorithms with respect to their time and space requirements; advanced data structures; sorting and searching; graph algorithms; backtracking; NP-complete problems; approximation algorithms.
Note: Credit will be granted for only one of CSC 424, CSC 420.
Prerequisite(s): CSC 320.

CSC 425  Units: 1.5  Hours: 3-0-0
Computational Geometry
Algorithms and data structures that are used to solve geometrical problems. Topics include geometric searching, convex polygons and hulls, Voronoi diagrams, plane sweep algorithms, proximity and intersections. Application areas which are discussed include: computer graphics, VLSI design, and graph theory.
Prerequisite(s):
• CSC 226; and
• minimum third-year standing.

CSC 426  Units: 1.5  Hours: 3-0-0
Combinatorial Algorithms
Exploration of the interfaces between combinatorics and Computer Science. Algorithms and data structures that are used to manipulate, generate, and randomly select combinatorial objects, including sets, permutations, combinations, trees, graphs. Methods for analyzing combinatorial algorithms such as recurrence relations, asymptotics, and amortized complexity.
Prerequisite(s):
• Either CSC 226 with a minimum grade of B+, or CSC 225 with a minimum grade of B+; and
• MATH 222 with a minimum grade of B, and
• minimum third-year standing.

CSC 429  Units: 1.5  Hours: 3-0-0
Cryptography
Fundamentals of modern cryptography. Topics include: review of classical and information-theoretic cryptography; block ciphers, DES, cryptanalysis of DES, modes of operation, AES; cryptographic hash functions and message authentication codes; public key cryptography, RSA, ElGamal and other public key systems, signature schemes; introduction to security protocols.
Prerequisite(s):
• CSC 320, or MATH 110 and STAT 254; or MATH 222; and
• minimum third-year standing.

CSC 430  Units: 1.5  Hours: 3-1-0
Compiler Construction
Compilation, including: lexical analysis, syntax analysis, semantic analysis, code optimization, and simple code generation. Students will implement a compiler for a simple language.
Prerequisite(s): CSC 320 and CSC 330.

CSC 435  Units: 1.5  Hours: 3-0-0
Operations Research: Linear Programming
An introduction to linear programming and its applications. Topics include: the simplex method, the revised simplex method, computer implementations, duality. Optional topics include: parametric and sensitivity analysis, primal-dual algorithm, network simplex method, the network flow problem, and game theory. Typical applications include: fitting curves to data, the transportation problem, inventory problems and blending problems.
Note: Credit will be granted for only one of CSC 445, CSC 448A.
Prerequisite(s):
• CSC 225; and
• MATH 110 or MATH 211; and
• minimum third-year standing.

CSC 446  Units: 1.5  Hours: 3-0-0
Numerical Linear Algebra
Gaussian elimination and its variants; sparse positive definite linear systems; sensitivity of linear systems; norms, condition, stability, scaling, iterative refinement; orthogonal matrices and least squares; eigenvalues and eigenvectors; the QR algorithm; the singular value decomposition.
Prerequisite(s): CSC 349A with a minimum grade of B.

CSC 448A  Units: 1.5  Hours: 3-0-0
Fault Tolerant Computing
An introduction to selected issues in fault tolerant computing. Topics include: definitions of reliability, availability, safety, maintainability, testability and dependability; system protection through both hardware and information redundancy; quantitative methods for the evaluation of reliability, the design and test of integrated circuits; software fault tolerance and software testing. Includes a number of case studies of practical fault tolerant systems.
Prerequisite(s): CSC 360.

CSC 449  Units: 1.5  Hours: 3-0-0
Design and Analysis of Real-time Systems
Fundamental issues in design of real-time operating systems and application software. Typical topics include: hard real-time scheduling, interrupt driven systems, process communication and synchronization, language requirements for real-time systems, decomposition of real-time requirements into process models, and case studies. A project involving design, implementation and testing of a real-time executive and real-time application software will also be included.
Note: Not open for credit to students registered in or with credit in CENG 455, ECE 455.
Prerequisite(s):
• One of CSC 355, CENG 355, ECE 355; and
• CSC 360.

CSC 450  Units: 1.5  Hours: 3-0-0
Multimedia Systems
Introduction to multimedia systems and applications. Topics include multimedia system design issues, representation, processing and retrieval of temporal and non-temporal media types, data compression techniques, multimedia system architecture, operating systems, networking, quality of service and database system issues, object-oriented multimedia programming, user interface, virtual worlds. Completion of a minor lab project is required.
Prerequisite(s):
• CSC 360; and
• one of CSC 361, CENG 460, ECE 458.
### CSC 462 - CSC 483A

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Hours</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td><strong>CSC 462</strong></td>
<td>1.5</td>
<td>3-3-0</td>
<td>Distributed Computing&lt;br&gt;Review of computer networking. Mechanisms including interprocess communication and remote procedure call. Distributed operating systems design problems: kernels and microkernels, process models, virtual memory, naming and protecting. Distributed file systems. Fundamental problems in distributed computing: naming, ordering of events, replication and atomicity. Case studies.&lt;br&gt;Note: Credit will be granted for only one of CSC 462, SENG 462.</td>
</tr>
<tr>
<td><strong>CSC 463</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Wireless and Mobile Networks&lt;br&gt;An introduction to selected issues in wireless and mobile networks. Topics include: radio basics, mobility models, location management, handoff, QoS (Quality of Service), MAC (Medium Access Control), routing, and transport protocols over different types of wireless and mobile networks.</td>
</tr>
<tr>
<td><strong>CSC 464</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Concurrency&lt;br&gt;Introduction to the foundations of concurrency theory and the issues of specification and verification of concurrent systems. Topics will include models of concurrency such as Petri nets, labelled transition systems, and traces; specification of concurrent systems/programs in formalisms including process algebras, statecharts, Petri nets and temporal logics; verification techniques such as bisimulation and model checking. Case studies will be taken from coordination problems, controller design, communication protocols, hardware and user interface design.</td>
</tr>
<tr>
<td><strong>CSC 466</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Overlay and Peer-to-Peer Networking&lt;br&gt;Focusses on Layer 3 and above and the control plane of the Internet. Topics will include: overlay network architectures, peer-to-peer application models, end-to-end control mechanisms, inter- and intra-domain routing protocols, service provisioning, network measurement, and related best current practices on the Internet.</td>
</tr>
<tr>
<td><strong>CSC 467</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Switching, Network Traffic and Quality of Service&lt;br&gt;Emphasizes Layer 2/3 concepts and the data plane. Review of computer communications and networks. Switch &amp; Router Architectures, Traffic Management and Traffic Engineering, Data and Control Plane (Virtual Private Networks, MPLS), QoS routing aspects and Protocols. Optical Networks.</td>
</tr>
<tr>
<td><strong>CSC 471</strong></td>
<td>1.5</td>
<td>3-1-0</td>
<td>Fundamentals of Computer Rendering&lt;br&gt;Physical foundations of illumination techniques. Colour, radiometry, photometry and reflection models. The rendering equation and rendering methods including ray tracing and radiosity. Sampling and anti-aliasing theory and methods such as photon tracing, Monte Carlo techniques and texturing methods. Volume rendering and point based rendering methods, image-based rendering, real-time shading and non-photo realistic rendering techniques.</td>
</tr>
<tr>
<td><strong>CSC 472</strong></td>
<td>1.5</td>
<td>3-1-0</td>
<td>Fundamentals of Computer Modelling&lt;br&gt;Theory and practice of implicit and parametric modelling B-splines including NURBS and tensor product surfaces. Subdivision schemes and multi-resolution. Application of wavelets to modelling. Solid modelling including constructive solid modelling, volume models, implicit and point based modelling. Blending, deformation, polygonization, the Blobtree and precise contact modelling. Meshing techniques such as mesh reduction. Procedural modelling methods such as L-systems, and sketch based modelling.</td>
</tr>
<tr>
<td><strong>CSC 473</strong></td>
<td>1.5</td>
<td>3-1-0</td>
<td>Fundamentals of Computer Animation&lt;br&gt;Principles of traditional animation, key framing, parametric and track animation, free form deformation, inverse kinematics, dynamics, spring mass systems, particle systems, numerical integration, Lagrangian constraints, space time constraints, collisions, human animation, behavioural animation, metamorphosis, implicit animation techniques, animating liquids, gases and cloth, motion capture. Animation interfaces (such as Maya) and introducing MEL scripting.</td>
</tr>
<tr>
<td><strong>CSC 475</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Music Retrieval Techniques&lt;br&gt;A comprehensive introduction to the emerging research area of Music Information Retrieval (MIR). Topics include techniques from signal processing, machine learning, information retrieval, human-computer interaction, and software engineering are applied in the design and development of MIR algorithms and systems.</td>
</tr>
<tr>
<td><strong>CSC 482A</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Former: CSC 482&lt;br&gt;Topics in Algorithms&lt;br&gt;Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.&lt;br&gt;* Lab hours may vary depending on the topic.&lt;br&gt;Note: Credit will be granted for only one of CSC 482A, CSC 482 (if taken in the same topic), CSC 482B (if taken in the same topic), CSC 482C (if taken in the same topic), CSC 482D (if taken in the same topic).&lt;br&gt;May be taken more than once for credit in different topics with permission of the department.</td>
</tr>
<tr>
<td><strong>CSC 482B</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Former: CSC 482&lt;br&gt;Topics in Algorithms&lt;br&gt;Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.&lt;br&gt;* Lab hours may vary depending on the topic.&lt;br&gt;Note: Credit will be granted for only one of CSC 482B, CSC 482 (if taken in the same topic), CSC 482A (if taken in the same topic), CSC 482C (if taken in the same topic), CSC 482D (if taken in the same topic).&lt;br&gt;May be taken more than once for credit in different topics with permission of the department.</td>
</tr>
<tr>
<td><strong>CSC 482C</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Former: CSC 482&lt;br&gt;Topics in Algorithms&lt;br&gt;Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.&lt;br&gt;* Lab hours may vary depending on the topic.&lt;br&gt;Note: Credit will be granted for only one of CSC 482C, CSC 482 (if taken in the same topic), CSC 482A (if taken in the same topic), CSC 482B (if taken in the same topic), CSC 482D (if taken in the same topic).&lt;br&gt;May be taken more than once for credit in different topics with permission of the department.</td>
</tr>
<tr>
<td><strong>CSC 482D</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Former: CSC 482&lt;br&gt;Topics in Algorithms&lt;br&gt;Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.&lt;br&gt;* Lab hours may vary depending on the topic.&lt;br&gt;Note: Credit will be granted for only one of CSC 482D, CSC 482 (if taken in the same topic), CSC 482A (if taken in the same topic), CSC 482B (if taken in the same topic), CSC 482C (if taken in the same topic), CSC 482D (if taken in the same topic).&lt;br&gt;May be taken more than once for credit in different topics with permission of the department.</td>
</tr>
<tr>
<td><strong>CSC 483A</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Former: CSC 483&lt;br&gt;Topics in Programming Methodology&lt;br&gt;Entrance will be restricted to third- and fourth-year students who meet the prerequisites specified for the topic to be offered.&lt;br&gt;* Lab hours may vary depending on the topic.&lt;br&gt;Note: Credit will be granted for only one of CSC 483A, CSC 483 (if taken in the same topic), CSC 483B (if taken in the same topic), CSC 483D (if taken in the same topic), CSC 483D (if taken in the same topic).&lt;br&gt;May be taken more than once for credit in different topics with permission of the department.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Units</td>
<td>Hours</td>
<td>Description</td>
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<tr>
<td>-------------</td>
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</tr>
<tr>
<td>CSC 483B</td>
<td>1.5</td>
<td>3-0*-0</td>
<td>Topics in Programming Methodology for third- and fourth-year students who meet the prerequisite. May be taken more than once.</td>
</tr>
<tr>
<td>CSC 494C</td>
<td>1.5</td>
<td>3-0*-0</td>
<td>Topics in Scientific Computing for third- and fourth-year students who meet the prerequisite. May be taken more than once.</td>
</tr>
<tr>
<td>CSC 485D</td>
<td>1.5</td>
<td>3-0*-0</td>
<td>Topics in Systems for third- and fourth-year students who meet the prerequisite. May be taken more than once.</td>
</tr>
</tbody>
</table>
**CSC 485E**  
Units: 1.5  
Hours: 3-0*-0  
Formerly: CSC 485  
Topics in Systems  
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
* Lab hours may vary depending on the topic.  

**Notes:**  
- Credit will be granted for only one of CSC 485E, CSC 485 (if taken in the same topic), CSC 485A (if taken in the same topic), CSC 485B (if taken in the same topic), CSC 485C (if taken in the same topic), CSC 485D (if taken in the same topic), CSC 485F (if taken in the same topic), CSC 485G (if taken in the same topic), CSC 485H (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

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**CSC 485F**  
Units: 1.5  
Hours: 3-0*-0  
Formerly: CSC 485  
Topics in Systems  
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
* Lab hours may vary depending on the topic.  

**Notes:**  
- Credit will be granted for only one of CSC 485F, CSC 485 (if taken in the same topic), CSC 485A (if taken in the same topic), CSC 485B (if taken in the same topic), CSC 485C (if taken in the same topic), CSC 485D (if taken in the same topic), CSC 485E (if taken in the same topic), CSC 485G (if taken in the same topic), CSC 485H (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

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**CSC 485G**  
Units: 1.5  
Hours: 3-0*-0  
Formerly: CSC 485  
Topics in Systems  
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
* Lab hours may vary depending on the topic.  

**Notes:**  
- Credit will be granted for only one of CSC 485G, CSC 485 (if taken in the same topic), CSC 485A (if taken in the same topic), CSC 485B (if taken in the same topic), CSC 485C (if taken in the same topic), CSC 485D (if taken in the same topic), CSC 485E (if taken in the same topic), CSC 485F (if taken in the same topic), CSC 485H (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

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**CSC 485H**  
Units: 1.5  
Hours: 3-0*-0  
Formerly: CSC 485  
Topics in Systems  
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
* Lab hours may vary depending on the topic.  

**Notes:**  
- Credit will be granted for only one of CSC 485H, CSC 485 (if taken in the same topic), CSC 485A (if taken in the same topic), CSC 485B (if taken in the same topic), CSC 485C (if taken in the same topic), CSC 485D (if taken in the same topic), CSC 485E (if taken in the same topic), CSC 485F (if taken in the same topic), CSC 485G (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

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**CSC 486A**  
Units: 1.5  
Hours: 3-0*-0  
Formerly: CSC 486  
Topics in Graphics  
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
* Lab hours may vary depending on the topic.  

**Notes:**  
- Credit will be granted for only one of CSC 486A, CSC 486 (if taken in the same topic), CSC 486B (if taken in the same topic), CSC 486C (if taken in the same topic), CSC 486D (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

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**CSC 486B**  
Units: 1.5  
Hours: 3-0*-0  
Formerly: CSC 486  
Topics in Graphics  
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
* Lab hours may vary depending on the topic.  

**Notes:**  
- Credit will be granted for only one of CSC 486B, CSC 486 (if taken in the same topic), CSC 486A (if taken in the same topic), CSC 486C (if taken in the same topic), CSC 486D (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

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**CSC 486C**  
Units: 1.5  
Hours: 3-0*-0  
Formerly: CSC 486  
Topics in Graphics  
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
* Lab hours may vary depending on the topic.  

**Notes:**  
- Credit will be granted for only one of CSC 486C, CSC 486 (if taken in the same topic), CSC 486A (if taken in the same topic), CSC 486B (if taken in the same topic), CSC 486D (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

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**CSC 486D**  
Units: 1.5  
Hours: 3-0*-0  
Formerly: CSC 486  
Topics in Graphics  
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
* Lab hours may vary depending on the topic.  

**Notes:**  
- Credit will be granted for only one of CSC 486D, CSC 486 (if taken in the same topic), CSC 486A (if taken in the same topic), CSC 486B (if taken in the same topic), CSC 486C (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

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**CSC 486E**  
Units: 1.5  
Hours: 3-0*-0  
Formerly: CSC 486  
Topics in Graphics  
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
* Lab hours may vary depending on the topic.  

**Notes:**  
- Credit will be granted for only one of CSC 486E, CSC 486 (if taken in the same topic), CSC 486A (if taken in the same topic), CSC 486B (if taken in the same topic), CSC 486C (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

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**CSC 487**  
Units: 1-3-0  
Formerly: CSC 488C  
Honours Seminar and Project  
Research under the direction of a faculty member. The student is required to pursue an interdisciplinary project, prepare a written report and to present a seminar describing the work.  
**Prerequisite(s):**  
- Minimum fourth-year standing in the Computer Science program; and  
- permission of the department.

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**CSC 490**  
Units: 1.5 or 3.0  
Directed Studies  
Note: May be taken more than once for credit in different topics with permission of the department.  
**Prerequisite(s):**

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**CSC 497**  
Units: 1.5  
Hours: 0-0-6  
Interdisciplinary Project  
Research under the direction of a faculty member. The student is required to pursue a project, prepare a written report and to present a seminar describing the work.  
**Prerequisite(s):** Fourth-year standing in a Computer Science Combined Program.

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**CSC 498**  
Units: 1.5  
Hours: 0-6-0  
Bioinformatics Project  
Research under the direction of a faculty member. The student is required to pursue a project, prepare a written report and to present a seminar describing the work.  
**Prerequisite(s):**  
- Minimum fourth-year standing in the Computer Science program with Bioinformatics Option; or  
- permission of the department.

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**CSC 499**  
Units: 1.5  
Hours: 1.5-4.5-0  
Honours Seminar and Project  
Seminar and research project under the direction of a faculty member. The student is required to pursue an independent project, to prepare a written report and to present a seminar describing the work.  
**Prerequisite(s):**  
- Minimum fourth-year standing, and  
- declared Honours in Computer Science or declared Combined Honours in Mathematics and Computer Science, in Physics and Computer Science, or in Statistics and Computer Science.
Creative Writing (En’owkin Centre)
Certificate Program in Foundations in Indigenous Fine Arts
Faculty of Fine Arts
CW (E) courses are offered only through the En’owkin Certificate Program in Indigenous Fine Arts.

**CW 100E**
**Units:** 3.0  **Hours:** 3-0-0
**Introduction to Creative Writing**
A non-historical survey of some of the basic structures in poetry, drama, creative nonfiction, and fiction which involves the students in the writing and criticism of compositions in all four genres using Aboriginal authors and perspectives.

**CW 150E**
**Units:** 1.5
**Writing for Children from a First Nations’ Perspective**
The techniques used in writing for children. An examination of Native Indian legends and stories and the imagery contained therein as well as the importance of unifying illustrations to story line will take place. Contemporary story writing, as well as traditional, will be emphasized.

**CW 155E**
**Units:** 1.5  **Hours:** 3-0-0
**Critical Process and World View**
A critical examination of Aboriginal literature, including oral story-telling methods and techniques, enabling students to apply that critical process to their own writing.

**CW 156E**
**Units:** 1.5
**Critical Process, Symbolism and Oral Tradition**
Focuses on and encourages the use of archetypes in poetry, prose and drama. Native literature archetypes such as coyote, the Thunderbird, eagle, owl and horse will be discussed, and the nature of their use by Native authors will be examined. Students will examine the literary forms that have been developed by indigenous peoples everywhere with a view to using some of these forms as models for their own creative efforts. Oratory, legends and stories, songs, music, dance, Native humour, metaphor, symbolism, rhyme, and the use of sign language will be studied.

**CW 160E**
**Units:** 1.5
**First Nations’ Nonfiction**
An examination of First Nations’ nonfiction writing such as essays, autobiographies, biography, and political oratory, both in the modern and historic context.

**CW 212E**
**Units:** 1.5
**Structure in Cinema and Television Drama**
A lecture course surveying the structural characteristics of screen drama, making use of published Aboriginal film and television scripts as well as indigenous film from other countries.

**CYC 100A**
**Units:** 1.5  **Hours:** 3-0-0
**Formerly: part of CYC 100**
**Introduction to Professional Child and Youth Care Practice: Part One**
Historical, contemporary, global and local conversations about the professional field of child and youth care and its diverse practices and contexts. Introduction to strength-based practice, inclusiveness, caring in context, normative development, and critical reflection. Emphasis on socially locating oneself, building relationships, processes of change, enhancing ethical discernment, promoting cultural competencies and a commitment to social justice, cultivating a professional orientation, and understanding theory in everyday practice.

**Note:** Credit will be granted for only one of CYC 100A, CYC 100B, CYC 200, CYC 600, CYC 251.

**CYC 100B**
**Units:** 1.5  **Hours:** 3-0-0
**Formerly: part of CYC 100**
**Introduction to Professional Child and Youth Care Practice: Part Two**
Continuation of 100A.

**Note:** Credit will be granted for only one of CYC 100B, CYC 100, CYC 200, CYC 251.

**Prerequisite(s):** CYC 100A.

**CYC 101**
**Units:** 1.5  **Hours:** 3-0-0
**Introduction to CYC Practice and Communications Technology**
A communications technology-based introduction to the fundamental concepts, relationships and professions associated with the field of Child and Youth Care. Introduces key skill areas that will facilitate learner/practitioner success. Students will be introduced to the role and function of technology to support both life-long learning and child and youth care practice.

**Note:** Credit will be granted for only one of CYC 101, CYC 370, CYC 475.

**CYC 130**
**Units:** 1.5
**Professional Communications in Indigenous Child and Youth Care**
Facilitates development of professional communication skills for practice in Indigenous child and youth care settings. Emphasis is on written expressions and career relevant assignments.

**CYC 131**
**Units:** 1.5
**Child and Youth Care Practice in Indigenous Settings**
Structured opportunities for learners to identify, visit and examine examples of child and youth care practice in their own locale and within their own cultural frame of reference. They will identify, describe and explore the significance of various forms of practice within the field. Students will identify mentors in their locale, network and do a survey of relevant services and sites in their community.

**CYC 132**
**Units:** 1.5  **Hours:** 3-0-0
**Indigenous Leadership in Child and Youth Care**
Develops the learner’s understandings of various forms of leadership that can contribute to achieving Indigenous goals for children, youth, families and their communities. Learners study historical and contemporary Indigenous leaders in fields related to children and youth with an emphasis on strategies, attributes, skills and achievements within their own cultural frame of reference and in broader contexts. Learners will conceptualize their own career development as emerging leaders in the field of child and youth care.

**CYC 140**
**Units:** 1.5  **Hours:** 3-0-0
**Written Communications in Child and Youth Care**
Fosters the development of written academic communication skills through critical inquiry, thinking, reading and writing. Students will explore current issues and context within CYC practice, as they demonstrate an understanding of effective writing process from planning through research and editing. Students will identify their strengths and address the gaps in their written communication skills.

**CYC 152**
**Units:** 1.5  **Hours:** 3-0-0
**Introduction to Helping Skills in Child and Youth Care Practice**
Focuses on teaching foundational helping and communication skills through experiential learning and video recording. Students learn the use of interpersonal and communication skills, helping strategies, and the development of therapeutic relationships that are the core elements of child and youth care practice.

**Notes:**
- Credit will be granted for only one of CYC 152, CYC 252.
- First of four required lab courses (CYC 152, CYC 265, CYC 370 and CYC 475).

**CYC 166A**
**Units:** 1.5
**Lifespan Development (Conception to Late Childhood)**
Introduces students to concepts and models of how human behaviour is acquired, maintained and modified. Focuses on human development from conception to late childhood as a knowledge base for practice with children, youth and families.

**Note:** Credit will be granted for only one of CYC 166A, CYC 366, CYC 366A.

**CYC 166B**
**Units:** 1.5  **Hours:** 3-0-0
**Lifespan Development (Adolescence to Late Adulthood)**
Introduces students to concepts and models of how human behaviour is acquired, maintained and modified. Focuses on human development from adolescence to late adulthood as a knowledge base for practice with children, youth and families.

**Note:** Credit will be granted for only one of CYC 166B, CYC 366, CYC 366B.
CYC 205 Units: 3.0 Hours: 3-0-0
Formerly: CYC 301

Applying Change Theory in CYC Practice

An introduction for students to various orientations towards planned change. How change occurs and how helping professionals can facilitate such change is the main focus. By critically reflecting on fundamental assumptions embedded in certain theories students can learn to integrate and synthesize knowledge into their counselling perspectives.

Note: Credit will be granted for only one of CYC 205, CYC 301, CYC 351.

Prerequisite(s):
• All of CYC 100A, CYC 100B, CYC 152, CYC 166A, CYC 166B, CYC 171, and
• admission to a program in Child and Youth Care; or
• permission of the school.

CYC 210 Units: 1.5

Supervised Practicum I

An opportunity to practice evolving CYC skills in an applied setting. Students work directly with children/youth in a supervised practice situation in order to promote professional skill acquisition and integrate the knowledge obtained through coursework. Students are required to complete 120 hours.

Note: Credit will be granted for only one of CYC 210, CYC 210A.

Prerequisite(s):
• All of CYC 100A, CYC 100B, CYC 152, CYC 166A, CYC 166B, CYC 171, and
• admission to a program in Child and Youth Care; or
• permission of the school.

CYC 210A Units: 1.5

Supervised Practicum I by Prior Learning Assessment (PLA)

Students with appropriate work or volunteer experience in Child and Youth Care may complete the first CYC practicum by Prior Learning Assessment. Students present evidence of their growing knowledge of CYC practice and practice experience within a course format.

Note: Credit will be granted for only one of CYC 210, CYC 210A.

Prerequisite(s):
• Admission to a program in Child and Youth Care; and
• permission of the school.

Recommendation(s): 2 years of paid CYC experience strongly recommended prior to taking CYC 210A.
Cyc 311 - Units: 4.5
Supervised Block Practicum II
Students work directly with children and youth for 286-hour in a condensed 4-month, supervised practicum, in order to promote professional skill acquisition and integration. Emphasis is placed on fostering the student's skill development in relation to working with children, youth and field supervisors. Attention is also given to developing a decolonizing practice and to case planning, intervention and case presentation skills.
Note: Credit will be granted for only one of CYC 311, CYC 310, CYC 310A.
Prerequisite(s):
• All of CYC 166A, CYC 166B, CYC 210; and
• minimum third-year standing; and
• admission to a program in Child and Youth Care.
Corequisite(s): CYC 205 and CYC 338.

Cyc 330 - Units: 1.5 Hours: 3-0-0
Applied Practice in Indigenous Contexts
Examines systems of working in meaningful and reciprocal relationships with Indigenous communities. It explores Indigenous epistemologies - ways of knowing, doing, being. Emphasis on the development of positive and effective practice frameworks and practical strategies that support healing, wellness, resilience in Indigenous contexts are central.
Prerequisite(s): CYC 230.

Cyc 338 - Units: 3.0 Hours: 3-0-0
Applying Developmental Theory in Child and Youth Care Practice
Focuses on the application of contemporary child developmental theories and research, as well as cultural and social class theories, to child and youth care practice. These developmental theories will be applied using a multidimensional, culturally situated, developmental perspective to a wide variety of child and youth care situations, including a variety of biologically-based atypical developmental conditions. The interrelationships between applied child development and a variety of contexts such as family, peer group, school, community, domestic and global conditions will also be explored.
Prerequisite(s):
• CYC 166A and CYC 166B; and
• admission to a program in Child and Youth Care.
Corequisite(s): CYC 210.

Cyc 350 - Units: 1.5 Hours: 3-0-0
Applying Law in Child Protection and Child and Youth Care Practice
An opportunity to put into practice the theoretical and legal foundation gained from the prerequisite course. Students will explore issues of diversity and the dynamics of law, Child and Youth Care practice in legal contexts, and ethical considerations within a legal framework. Students will practice specific skills in Child Protection work such as interviewing, documentation, contextual analysis, applying practice standards, interpreting law, critical analysis and reflexive reviewing.
Note: Credit will be granted for only one of CYC 350, CYC 350B.
Prerequisite(s): CYC 250.

Cyc 356 - Units: 1.5 Hours: 3-0-0
Formerly: CYC 266
Child and Youth Care Practice with Families
Focuses on the various kinds of strategies used when working with families in a variety of settings. Using a strengths-based approach, it covers interventions that promote positive ways of improving family patterns when difficulties are presented. Students will be introduced to a variety of interventions used to work collaboratively with a family when changes are needed.
Note: Credit will be granted for only one of CYC 356, CYC 266, CYC 351, CYC 466.
Prerequisite(s):
• All of CYC 100A, CYC 100B, CYC 152, CYC 166A, CYC 166B, CYC 171.
Pre- or Corequisite(s):
• CYC 205; or
• permission of the school.

Cyc 360 - Units: 0.5, 1.0, 1.5 or 3 Hours: 3-0-0
Special Topics in Child and Youth Care
An opportunity to examine selected current issues in child and youth care.
Notes:
• May be taken more than once for credit in different topics with permission of the school.
• Also available for professional development.

Cyc 364 - Units: 1.5
Attending to Disability in Child and Youth Care Practice
Critically engages with historical and current, global and local approaches to disability and social inclusion. Encourages students to consider the power of language and representation in conceptual models and policies that influence work with children, youth and adults with disabilities and their families.
Note: Credit will be granted for only one of CYC 364, CYC 361, CYC 362, CYC 370, CYC 464, SOWC 469 (if taken prior to December 2010).
Prerequisite(s):
• Minimum second-year standing.

Cyc 370 - Units: 1.5 Hours: 3-0-0
Formerly: CYC 474
Applying Assessment and Case Planning in Child and Youth Care Practice
Focuses on the skills necessary to working professionally with individuals, groups and families: intake interviewing, needs and risk assessment, intervention planning and implementation, case management and reporting. Knowledge and skill in issues of abuse and neglect will be developed. Students will be required to apply change theory in a laboratory learning setting and produce professional documentation of their work. Feedback on skill application is provided in class and through video recordings.
Note: Credit will be granted for only one of CYC 370, CYC 474.
Prerequisite(s):
• Either CYC 210 and CYC 205, or CYC 351; and
• admission to a program in Child and Youth Care.

Cyc 379 - Units: 1.5 Hours: 3-0-0
Also: HSO 470
Interdisciplinary Perspectives on Sub-Saharan Africa
An overview of key African issues, through presentations by University of Victoria professors with research and development interests in Africa. Topics include: pre-history and paleo-anthropology, literature and the arts, colonial and post-colonial histories, and contemporary issues such as governance, HIV-AIDS and human rights.
Note: Credit will be granted for only one of CYC 379, HSO 470.

Cyc 380 - Units: 1.5 Hours: 3-0-0
Practices for Young Children and Families: Historical and Contemporary Perspectives
In this foundational course for the Early Years Specialization, the historical and philosophical trends that influence and shape services and policies for young children and their families will be examined. Students will investigate the roots of some of the current issues in the area of the early years through an applied analysis of local, national and international approaches to services and policies for young children and their families. This analysis will be framed within a social justice approach.
Prerequisite(s): Minimum third-year standing.

Cyc 381 - Units: 1.5 Hours: 3-0-0
Leadership, Advocacy and Policy for the Early Years
Explores leadership, advocacy and policy within the context of key political debates and controversies affecting early years services. Key areas of study will include: creation of networks and relationships with governmental and non-governmental organizations; roles of advocacy groups concerned with services and decision-making processes within particular social, cultural, economic and cultural contexts; policy development, and the role practitioners play as advocates engaged in a global context.
Prerequisite(s): Minimum third-year standing.

Cyc 390 - Units: 0.5, 1.0, 1.5 or 3.0
Directed Studies in Child and Youth Care
Notes:
• May be taken more than once for credit in different topics.
• Pre-Forma required.

Cyc 410 - Units: 4.5
Advanced Supervised Practicum
This supervised, 286-hour practicum from September to April, focuses on the student’s professional area of interest and provides an opportunity to apply decolonizing practice, case planning, intervention and evaluation skills at an advanced level. Professional consultation, clinical functioning and the integration of theory and practice are emphasized.
Notes:
• Credit will be given for one of CYC 410, CYC 410A, CYC 411.
• More hours may be required for Specializations.
Prerequisite(s):
• CYC 310, CYC 310A or CYC 311; and
• all of CYC 338, CYC 350, CYC 356, CYC 364, CYC 370; and
• minimum fourth-year standing; and
• admission to a program in Child and Youth Care.
Pre- or Corequisite(s): All of CYC 423, CYC 424, CYC 470, CYC 471, CYC 475.
CYC 411
Units: 4.5
Formerly: CYC 410A
Advanced Supervised Block Practicum
A condensed 4-month practicum within which students are required to complete 286 hours. Some practica are block practica only. Check with a practicum coordinator for more information.

Notes:
• Credit will be given for one of CYC 411, CYC 410, CYC 410A.
• More hours may be required for Specializations.
Prerequisite(s):
• CYC 310, CYC 310A or CYC 311; and
• all of CYC 338, CYC 350, CYC 356, CYC 364, CYC 370, CYC 423, CYC 424, CYC 470, CYC 471; and
• minimum fourth-year standing; and
• admission to a program in Child and Youth Care.
Pre- or Corequisite(s): CYC 475

CYC 423
Units: 1.5
Hours: 3-0-0
Research Methods in Child and Youth Care
The design of research and evaluation in child and youth care. Within an applied research practitioner context, students will be introduced to the knowledge and skills necessary to locate, understand, and use research about child and youth care. Students will examine research/ evaluation designs and methodologies for improving child and youth care practice.

Prerequisite(s): Minimum third-year standing.

CYC 424
Units: 1.5
Hours: 3-0-0
Qualitative and Quantitative Analysis in Child and Youth Care
Provides students with a grounding in the techniques commonly used in the analysis of both quantitative and qualitative data in child and youth care as well as the logic of interpreting evaluation data. Students will explore how to interpret, analyze, code, and write about qualitative data. They will analyze quantitative, descriptive data to interpret relationships between variables and be introduced to inferential statistics.

Note: Credit will be granted for only one of CYC 424, HSD 425.
Prerequisite(s): Minimum third-year standing.

CYC 430
Units: 1.5
Hours: 3-0-0
Research Practice in Indigenous Contexts
Builds upon the foundation of knowledge and skills developed through CYC 230 and a research methods course. Examines research approaches that are informed by Indigenous research methodologies and Indigenous ways of knowing, doing and being.

Prerequisite(s):
• CYC 230 and CYC 423; or
• permission of the school.

CYC 460
Units: 0.5, 1.0, 1.5 or 3
Hours: 3-0-0
Special Topics in Child and Youth Care
An opportunity to examine selected current issues in child, youth, and family care.

Note: May be taken more than once for credit in different topics with permission of the school.

CYC 461
Units: 1.5
Hours: 3-0-0
Child Life Practice in Hospitals and Community Settings
A foundation to child life practice in hospitals and community health care settings. Emphasis is placed on examining professional issues concerning child life specialists, the application of various conceptual frameworks, and theoretical perspectives to clinical practice within a multidisciplinary model in both hospital and community contexts.

Note: On-line delivery with mandatory on-campus seminars.
Prerequisite(s): Minimum third-year standing.

CYC 470
Units: 1.5
Hours: 3-0-0
Child and Youth Care Practice in Mental Health Settings
An examination of the prevalence of patterns of atypical behaviours in childhood and adolescence and research on neurobiological correlates and socio-cultural contextual factors often associated with these patterns. Students gain understanding of how to design, classification systems, assessment methods, and objectives guiding the delivery of child and youth mental health services, the use of psychopharmacology and other approaches. The interface between mental health services and professional practice in child and youth care is explored.

Prerequisite(s):
• CYC 405; and
• minimum third-year standing.
Corequisite(s): CYC 338

CYC 471
Units: 1.5
Hours: 3-0-0
Addictive Behaviours in Children, Youth and Families
Explores the nature, determinants, impacts, prevention and treatment of addictions in childhood and adolescence while also giving consideration to the impact of parental addictive behaviours on children and youth. Students gain understanding of the foundations of a range of addictive problems in neurobiology and development and interactions with family, community and broader social contexts. Students learn about current approaches to preventing, assessing and reducing harm resulting from addictive behaviours.

Note: Credit will be granted for only one of CYC 471, CYC 463.
Prerequisite(s): Minimum third-year standing.
Corequisite(s): CYC 338

CYC 475
Units: 3.0
Hours: 3-0-0
Advanced Child and Youth Care Practice with Families and Groups
This advanced course focuses on the development of skills required for child and youth care practice with families and groups. In a supervised teaching setting, students will assess the needs of role-playing individuals, families and groups, and by applying appropriate intervention strategies, assist clients to achieve needs-related, desired outcomes.

Note: Credit will be granted for only one of CYC 475, CYC 476.
Prerequisite(s):
• CYC 310 or CYC 310A; and
• all of CYC 338, CYC 350, CYC 356, CYC 364, CYC 370; and
• admission to a program in Child and Youth Care.

CYC 480
Units: 1.5
Hours: 3-0-0
Advanced Applied Capacity Building for the Early Years
The central focus will be the practitioner’s roles in strengthening community capacity for early years care and development. Local, national and international case examples will be employed to explore the relationships between theory, practice and supportive policies. Students will undertake a major project designed to stimulate transformative processes in the provision of early years services within the context of communities.

Prerequisite(s): Minimum third-year standing.

CYC 481
Units: 1.5
Assessment and Evaluation in Contemporary Early Years Settings
Theory and practice-based. Learners (a) critically reflect on issues and methods relevant to the work of assessment and evaluation in contemporary early years settings; and (b) at an introductory level, work in partnership with an early childhood educator as a pedagogical facilitator in an early years setting.

Prerequisite(s): Minimum third-year standing.

CYC 490
Units: 0.5, 1.0, 1.5 or 3
Directed Studies in Child and Youth Care
Notes:
• May be taken more than once for credit in different topics.
• Pro Forma required.

CYC 495
Units: 1.5
Advanced Honours Seminar in CYC Theory, Research and Practice
Exploration of current topics in CYC theory, research and practice. Students’ projects will apply the latest strategies for conducting qualitative and/or quantitative research. Students are expected to contribute to the field, while preparing themselves for graduate education.

Notes:
• Application information and deadlines will be available through the SCYC website.
• Recommendation of the department.

CYCB

Indigenous Community-based Child and Youth Care
School of Child and Youth Care
Faculty of Human and Social Development

CYCB 110
Units: 1.5
Hours: 1.5-11.0
Practicum I Community Care Settings For Children and Youth
Orients students to the field of CYC. The structure of services and supports is explored within the context of a specific community. Students will meet local CYC professionals and visit programs and agencies serving children, youth, and their families. Elders and helping professionals address the service needs and current responses within the community. Students will practice direct observation in formal and informal settings and will be supervised in making informed interpretations.
**CYCB 111** Units: 1.5  Hours: 1.5-11-0

**Practicum II The Whole Child**
Focuses on observing young children across physical, emotional, social, cognitive and spiritual areas of development. While observing children, students will begin to discover how to respond to children’s needs and interests by planning and implementing activities that are developmentally and culturally appropriate. Students will become familiar with the roles and responsibilities of the early childhood practitioner by participating as a team member with staff and interacting with children and their families in communities under supervision.

Prerequisite(s): CYCB 110.

**CYCB 112** Units: 1.5  Hours: 1.5-11-0

**Practicum III The Child in the Curriculum**
Further opportunities to learn about early childhood care and education settings. Students take increasing initiative and develop self-evaluative skills in planning and conducting activities and creating effective learning environments. Students will gain understanding of the roles and responsibilities of professional work by planning and implementing programs. The objectives also include developing awareness of practice in a variety of settings, learning appropriate care routines and developing good interpersonal skills for working with children.

Prerequisite(s): CYCB 111.

**CYCB 120** Units: 1.5  Hours: 4-0-0

**Introduction to Play (ECCE)**
Program planning for young children and the concept of learning through play. Explores the relationship between play and child development, the stages of children’s play and factors that influence play. Encourages students to incorporate theories and research findings about play into a description of appropriate practice. In addition to text information, throughout the course Elders and students generate insights about play from the perspective of their own First Nation’s culture.

**CYCB 121** Units: 1.5  Hours: 4-0-0

**Foundations of Curriculum Planning (ECCE)**
Builds on Introduction to Play (CYCB 120). Students are introduced to the guidelines for planning culturally and developmentally appropriate programs for young children in their communities. Students explore three common philosophies of program planning with an introduction to specific contact areas while discussing the role of the child, the educator and the parent. Throughout the course Elders and students generate insights into program planning from the perspective of their own community and culture.

Prerequisite(s): CYCB 120.

**CYCB 122** Units: 1.5  Hours: 4-0-0

**Curriculum Design and Implementation (ECCE)**
Builds on Introduction to Play (CYCB 120) and Foundations of Curriculum Planning (CYCB 121). Provides students with expanded experiences in designing and implementing programs for preschool children. Specific curriculum content areas of art, music, math, science and social studies are further developed in the context of refining program planning developed in the two previous courses. Throughout the course Elders and students generate insights into planning for children from their own community and culture.

Prerequisite(s): CYCB 120 and CYCB 121.

**CYCB 123** Units: 1.5  Hours: 4-0-0

**The Caring and Learning Environment (ECCE)**
Studies the total environment of a child care facility and the integration of these environmental elements. Students investigate theories of building environments that nurture and educate, design and plan such environments, and examine ways of administering and managing them. It includes activities intended to elicit from them the perspectives of their own experience. Throughout the course Elders and students generate insights into learning environments from the perspective of First Nations cultures.

Pre-requisite(s): CYCB 122.

**CYCB 140** Units: 1.5  Hours: 4-0-0

**Introduction to Human Behaviour**
An overview of the principles that guide the scientific study of human behaviour. The child and youth care profession rests on a large and constantly expanding base of research. Introduces students to some of that research. Students learn the terminology and theories that serve as a foundation for future coursework in child and youth care. Throughout the course Elders and students generate insights into human behaviour from the perspective of their own culture.

**CYCB 141** Units: 1.5  Hours: 4-0-0

**Child Development I**
Introduces students to normative child development from conception to toddlerhood. Includes an overview of the major theories and theories in child development addressing research in the areas of physical, intellectual, and psychosocial development. As well as including insights from major researchers and theorists whose roots lie in western traditions, builds on traditional practices and theories of the First Nations community by including Elders’ teachings and experiences of the students.

**CYCB 142** Units: 1.5  Hours: 4-0-0

**Child Development II**
A continuation of the study of child development from early childhood to late adolescence addressing perspectives on physical, intellectual, psychosocial, and moral development of children and youth. Acknowledges and builds on the knowledge of child development that students already possess, and includes activities intended to elicit from them the perspectives of their own experience. Throughout the course Elders and students generate insights into child development from the perspective of their own community and culture.

Prerequisite(s): CYCB 141.

**CYCB 150** Units: 1.5  Hours: 4-0-0

**Interpersonal Communications**
Introduces students to the characteristics and dynamics of interpersonal communications. Students consider their own communication practices and develop skills in the areas of self-concept, personal learning styles, perception, verbal and nonverbal communication, active listening, understanding of relationships, and the expression of feelings. Throughout the course, Elders and students generate insights into interpersonal communications from the perspective of their own culture. Students produce a portfolio that represents their reflection on and integration of the course material.

**CYCB 151** Units: 1.5  Hours: 4-0-0

**Communicating with Children and Guiding Children's Behaviour**
Introduces students to methods of communicating with children that help foster positive child development. Provides an introduction to three theoretical approaches to guiding children. Students identify and practice effective methods of communicating with children within the context of various theoretical approaches. Throughout the course the perspectives of the First Nation’s community regarding communicating with children and guiding children’s behaviour are elicited from Elders and students.

**CYCB 210** Units: 1.5-6.0  Hours: 4-0-0

**Practicum with Developmental Specialization**
Students will develop programs and routines that are specialized for supporting healthy development with specific age groups, such as infants and toddlers, school-age children, or adolescents. Students will study practical aspects of care such as safety and appropriate guidance. Students will learn how to build program curriculum based on developmental needs and use evaluation to amend and enhance programming. The development of resources and community contacts will also be an essential part of the practicum.

**CYCB 211** Units: 1.5-6.0  Hours: 4-0-0

**Practicum in Supported Child Care for Children with Special Needs**
This practicum focuses on meeting the specific needs of a child or children in the context of culture, community and family. Students may choose options such as creating inclusive curriculum, working through the steps of developing support plans in consultation with team members, or implementing aspects of existing support plans. Students will be required to investigate and work with local resources, including professionals who provide specialized support, which are culturally appropriate and enhancing.

**CYCB 220** Units: 1.5  Hours: 4-0-0

**Introduction to School-Age Care (CYC)**
Explores the needs and interests of children, families, and care-providers regarding developmental needs of school-age children, and implications for practice. Students are introduced to planning and implementing a program of care for diverse groups of school-age children. Building from students’ personal knowledge, the course activities elicit students’ perspectives based on their own experience. Elders and students generate insights into the care of school-age children from their own community and culture.

**CYCB 221** Units: 1.5  Hours: 4-0-0

**Introduction to Programs For Adolescents (CYC)**
Students learn the importance of understanding the psychological and sociological context within which youth live. They learn to identify relevant issues, become informed, and locate them within the cultural context of particular adolescents. Students explore intervention possibilities and appropriate fit to specific issues in particular cultural contexts. Building on students’ knowledge and experience, Elders and students will work from the perspective of their own community and culture to generate knowledge about supporting adolescents.
### Course Overview

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<td>Program Development for Infants and Toddlers</td>
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<td>CYCB 230</td>
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<td>The Ecology of Health, Safety and Nutrition for Children</td>
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<td>CYCB 231</td>
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<td>CYCB 251</td>
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<td>Communication Skills for Professional Helpers</td>
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<td>CYCB 260</td>
<td>0.5, 1.0, 1.5 or 3.0</td>
<td>3-0-0</td>
<td>Special Topics in Child and Youth Care</td>
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<tr>
<td>CYCI 460</td>
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<td>DHUM 250</td>
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<td>Digital Representation and Creation in a Humanities Context</td>
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</table>

### Course Details

**CYCB 222**
- **Focus:** Program Development for Infants and Toddlers
- **Description:** Developing child care programs for children (0-2 years). Theories of caring and attachment as a foundation to care routines will be studied. Students will explore culturally specific approaches through consultation with respected community members. Using an ecological model that situates child care within social systems, students will develop partnerships with families and community networks and explore ways to access resources within and beyond their communities.

**CYCB 230**
- **Focus:** The Ecology of Health, Safety and Nutrition for Children
- **Description:** Methods of meeting children's needs for health, safety and nutrition vary according to culture and environment, so this course will explore the needs of children in the communities where learners plan to work. Traditional ways of ensuring health and safety will be considered alongside strategies for educating and working with parents, families and community members. Students will identify a community health issue, identify health indicators, and explore community-based solutions.

**CYCB 231**
- **Focus:** Administration of Child Care Facilities
- **Description:** The essentials of administering a child care facility on and off reserve will be explored including: staffing management; program development; budget management; implementing statutory regulations and meeting regional health standards. Students will be required to plan and design a new childcare facility, including identifying and meeting all appropriate regulations and standards for quality. Students will formulate an illustrative set of policies to establish practice principles appropriate to the context of their community.

**CYCB 240**
- **Focus:** Introduction to Supported Care for Children with Special Needs
- **Description:** An exploration of a range of methods for meeting the needs of children who require additional supports. Focused on planning for inclusive child care while incorporating environmental and contextual supports, including the family. Students will examine the principles of inclusive child care within the current policy and statutory environment. Students will locate resources within the context of practice and critically examine the principle of cultural responsiveness in inclusive child care.

**CYCB 250**
- **Focus:** Introduction to Planned Change
- **Description:** Introduces students to the components of helping relationships and models of helping used by professional child and youth care practitioners and provides opportunities to understand planned interventions within historical First Nations contexts. Students will explore the interpersonal dimensions of child and youth care practice in relation to supporting children, youth and families. Throughout the course Elders and students will generate insights into professional helping skills from the perspectives of their First Nations culture(s).

**CYCB 251**
- **Focus:** Communication Skills for Professional Helpers
- **Description:** Acknowledges and builds on prior knowledge of communication skills and includes activities that elicit perspectives emerging from their own experience. Designed to provide students with opportunities to learn and practice helping skills used by professional child and youth care workers in situations requiring interventions. Throughout the course the perspectives of the Indigenous community re: communication skills for professional helpers will be elicited from Elders and students.

**CYCB 260**
- **Focus:** Special Topics in Child and Youth Care
- **Description:** An opportunity to examine selected current issues in child and youth care. **Note:** May be taken more than once for credit in different topics with permission of the school.

**CYCI 460**
- **Focus:** Child and Youth Care International
- **Description:** School of Child and Youth Care Faculty of Human and Social Development

**CYCI 484**
- **Focus:** Historical and Contemporary Theoretical Perspectives in ECD
- **Description:** Commencing with activities focusing on data collection and critical analysis, the student will: 1) gather data regarding a key Early Childhood Care and Development issue in the country; 2) critically analyze those data in terms of the social, cultural, historical and philosophical forces that have impacted and shaped the issue; 3) develop an Action Plan designed to effectively address the issue, and 4) evaluate the effectiveness of the implemented Action Plan.

**CYCI 485**
- **Focus:** Child and Adolescent Development in Context
- **Description:** Supports learners in furthering their understandings of the holistic development of children in different contexts. Focus is on inputs to child development including biology, health, nutrition, gender, socialization, formal and informal schooling, physical environment, culture, religion, politics and economics. A bio-ecocultural model will be used as a template for understanding determinants of development in various contexts.

**CYCI 486**
- **Focus:** Professional Leadership in Early Childhood Care and Development
- **Description:** Effective leadership in organizations and an examination of leadership in the context of managerial work. Consistent with a holistic perspective, participants will begin exploring leadership from the personal perspective before moving out to investigate organizational, community and global contexts. Participants will centre on their own leadership or management style and identify areas of strength and growth to focus in a stronger way, their learning experience throughout the program.

**DHUM 150**
- **Focus:** Digital Humanities
- **Description:** A survey of the tools, techniques and culture of humanities computing. Topics include: impact of computing on society and academia; strategies for online research; evaluating digital academic resources; digitizing materials and converting analog materials to digital (text, image, and sound); using communicative, word-processing, spreadsheet, database, and image-, sound- and text-manipulation software; building websites; the Portfolio system.

**DHUM 250**
- **Focus:** Digital Representation and Creation in a Humanities Context
- **Description:** Examines the impact of computing on society and academia, through electronic modelling and creation strategies for materials that comprise the focus of the humanities. Topics include: exploration of the traditions of humanistic representational strategies; implications of modelling/representing this information digitally; basic textual encoding; design and use of relational database systems; use of multimedia tools for creative and representational endeavours; computer-mediated communicative techniques and immersive environments.

**DHUM 250**
- **Focus:** Digital Representation and Creation in a Humanities Context
- **Description:** Examines the impact of computing on society and academia, through electronic modelling and creation strategies for materials that comprise the focus of the humanities. Topics include: exploration of the traditions of humanistic representational strategies; implications of modelling/representing this information digitally; basic textual encoding; design and use of relational database systems; use of multimedia tools for creative and representational endeavours; computer-mediated communicative techniques and immersive environments.

**Prerequisite(s):**
- DHUM 150 or HUMA 150, or permission of the department.

**Note:** Credit will be granted for only one of DHUM 150, HUMA 150.
**DHUM 350**  
*Units: 1.5*  
*Hours: 1-2-0*

**Formerly:** DHUM 350  
**Key Applications:** Electronic Publishing and Computer-Assisted Analysis

Examination of key applications for digital humanities work in electronic publishing and the analysis of electronic objects within traditional, and new, frameworks of humanistic inquiry. Topics include: a survey of ways of knowing and ways of expressing knowledge in the humanities; advanced text encoding (TEI-XML); the generation of textual corpora; numerical and graphical analysis with relational databases, spreadsheets, and purpose-built software, and publication tools (such as XSLT) and systems.

**Note:** Credit will be granted for only one of DHUM 350, HUMA 350.

**Prerequisite(s):**  
- DHUM 150 or HUMA 150; or  
- permission of the department.

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**DHUM 450**  
*Units: 1.5*  
*Hours: 1-2-0*

**Formerly:** HUMA 450  
**Digital Humanities Project Seminar**

Seminar culminating in the completion of a large individual student project integrating digital humanities concerns with those at the core of the student’s disciplines. Topics include: implications of a digital approach to disciplinary work; project planning and management; tools and techniques. Meetings also include consultation sessions. Projects are carried out in conjunction with the department of the student’s program.

**Note:** Credit will be granted for only one of DHUM 450, HUMA 450.

**Prerequisite(s):**  
- DHUM 150 or HUMA 150; or  
- permission of the department.

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**DSST**  
**Disability Studies**

School of Public Health and Social Policy  
Faculty of Human and Social Development

**DSST 440**  
*Units: 1.5*

**Formerly:** part of DSST 442

**Introduction to Disability Studies**

A broad overview of the models and theories that have traditionally guided professional approaches to working with people with disabilities. The implications of these constructions are explored in relation to the development of theory, policy and practice locally and globally. Through first person accounts, students will explore the realities of living with disability and critically examine the intersections of health, illness, and disability including strengths, capacities and contributions of people living with disability.

**Note:** Credit will be granted for only one of DSST 440, DSST 442.

**Prerequisite(s):**  
- DHUM 150 or HUMA 150; or  
- permission of the department.

**DSST 441**  
*Units: 1.5*

**Enabling Technologies**

Focuses on innovations that enhance quality of life by enabling people with disabilities to participate in everyday life. Students will be encouraged to think through challenges relating to function to support innovations that enable people to be more independent.

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**ECE**  
**Electrical and Computer Engineering**

Department of Electrical and Computer Engineering  
Faculty of Engineering

Some Faculty of Engineering courses are only open to students in the faculty or in specific programs. Courses and applicable restrictions are listed at www.uvic.ca/engineering/courseaccess.php

Courses offered by the Faculty of Engineering are also found under the following course codes: BME (Biomedical Engineering), CIVE (Civil Engineering), CSCI (Computer Science), ENGR (Engineering), MECH (Mechanical Engineering) and SENG (Software Engineering).

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**ECE 216**  
*Units: 1.5*  
*Hours: 3-3-1*

**Formerly:** ELEC 216

**Electricity and Magnetism**

Electric charge, Coulomb’s Law, electrostatic forces, electric field, Gauss’s Law, electric potential, stored energy. Electric current, conduction in a vacuum and in material media, displacement current, magnetic field of a current, force on a current carrying wire, magnetic induction, electromagnetic force, energy stored in a magnetic field. Magnetism and magnetic circuits. Time varying fields. Capacitance, resistance, inductance, and their characterization.

**Note:** Credit will be granted for only one of ECE 216, ELEC 216, PHYS 216.

**Prerequisite(s):**  
- MATH 200; and  
- PHYS 112, or one of PHYS 110, PHYS 120, PHYS 122 and one of PHYS 111, PHYS 125, PHYS 130.
ECE 255  Units: 1.5  Hours: 3-3-0
Formerly: CENG 255
Introduction to Computer Architecture
The architecture of computer systems including concepts such as processor, memory, buses, input/output, instruction sets, interrupt processing, pipelining, performance. Families of processors, CISC, RISC. Memory organization and management including cache, virtual memory, protection. Computer arithmetic. Assembly language programming, assemblers, linkers and loaders. Hardware/software interaction.
Note: Credit will be granted for only one of ECE 255, CENG 255, CSCI 230.
Prerequisite(s): CSCI 111.

ECE 260  Units: 1.5  Hours: 3-0-1
Formerly: ELEC 260
Continuous-Time Signals and Systems
Note: Credit will be granted for only one of ECE 260, ELEC 260.
Prerequisite(s):
• MATH 101; and
• MATH 110 or MATH 211 (211 may be taken as a corequisite).

ECE 299  Units: 1.5  Hours: 3-3-0
Formerly: CENG 299, ELEC 299
Introduction to Electrical and Computer Engineering Design
Computer Aided Design (CAD) tools used in electrical and computer engineering design: drafting, printed-circuit board layout, scientific and system simulation. Instrumentation devices used in control and measurement. Case studies illustrating electrical and computer engineering design process. Time and project management. Technical communications and presentations.
Note: Credit will be granted for only one of ECE 299, CENG 299, CIVE 200, ELEC 200, ELEC 299, ENGR 150, MECH 200.
Pre- or Corequisite(s):
• ECE 241 or CENG 241; and
• ECE 250 or ELEC 250; and
• ENGR 120 or ENGR 121.

ECE 300  Units: 1.5  Hours: 3-1.5-0
Formerly: ELEC 300
Linear Circuits II
Note: Credit will be granted for only one of ECE 300, ELEC 300.
Prerequisite(s):
• ECE 250 or ELEC 250; and
• ECE 260 or ELEC 260.
Pre- or Corequisite(s): MATH 201 or MATH 204

ECE 310  Units: 1.5  Hours: 3-0-0.5
Formerly: ELEC 310
Digital Signal Processing I
Note: Credit will be granted for only one of ECE 310, ELEC 310.
Prerequisite(s): ECE 260 or ELEC 260.

ECE 320  Units: 1.5  Hours: 3-1.5-0
Formerly: ELEC 320
Electronic Devices I
Note: Credit will be granted for only one of ECE 320, ELEC 320.
Prerequisite(s): A minimum GPA of 3.0 in all of: ECE 216 or ELEC 216 or PHYS 216, ECE 220 or ELEC 220 or BME 320, MATH 201 or MATH 204.

ECE 330  Units: 1.5  Hours: 3-1.5-0
Formerly: ELEC 330
Electronic Circuits I
Note: Credit will be granted for only one of ECE 330, ELEC 330.
Prerequisite(s): A minimum GPA of 3.0 in all of: ECE 216 or ELEC 216 or PHYS 216, ECE 250 or ELEC 250, MATH 200.

ECE 335  Units: 1.5  Hours: 3-1.5-0
Also: BME 335
Formerly: ELEC 335
Biosensors and Instrumentation
A study of the basic principles of biomedical electronics and measurement with emphasis on instruments and systems for biomedical data acquisition and processing. Topics will include electrocardiography (ECG), electromyography (EMG), magnetic ultrasound, magnetic resonance imaging (MRI), and x-ray computed tomography (CT).
Note: Credit will be granted for only one of ECE 335, BME 335, ELEC 335.
Prerequisite(s): One of ECE 216, ELEC 216, PHYS 216.
Pre- or Corequisite(s): One of ECE 330, ECE 365, ELEC 330, ELEC 365.

ECE 340  Units: 1.5  Hours: 3-1.5-0.5
Formerly: ELEC 340
Applied Electromagnetics and Photonics
Field concept, Maxwell’s equations, power, and energy. Plane wave propagation, polarization, and reflection and transmission at material interfaces. Introduction to waveguides, antennas, and photonic structures. Engineering electromagnetics design concepts and examples with emphasis on impedance transformers and shielding structures.
Note: Credit will be granted for only one of ECE 340, ELEC 340.
Prerequisite(s): One of ECE 216, ELEC 216, PHYS 216.
Pre- or Corequisite(s): MATH 201 or MATH 204.

ECE 350  Units: 1.5  Hours: 3-1.5-0
Formerly: ELEC 350
Communications Theory and Systems I
Principles of amplitude, frequency and phase modulation; design of communication systems using link budget; modulators, mixers and demodulators; elementary digital communications, PSK, FSK. System analysis using Matlab; random processes, power spectral density, noise in communication systems, matched filters.
Note: Credit will be granted for only one of ECE 350, ELEC 350.
Prerequisite(s):
• ECE 310 or ELEC 310; and
• ECE 330 or ELEC 330.

ECE 355  Units: 1.5  Hours: 3-1.5-0
Formerly: CENG 355
Microprocessor-Based Systems
Note: Credit will be granted for only one of ECE 355, CENG 355.
Prerequisite(s):
• One of ECE 241, CENG 241, MATH 122; and
• One of ECE 255, CENG 255, CSCI 230.
ECE 356  Units: 1.5  Hours: 3-0-0
Formerly: CENG 356
Engineering System Software
System software principles, components, usage, protection, and their relation to hardware and engineering systems. Modern operating systems characteristics and engineering applications; portable operating system interface standard. Requirements, design, development, and maintenance of complex software for portable devices, real-time systems, and multi-processor systems.
Notes:
• Credit will be granted for only one of ECE 356, CENG 356.
• May not be counted for credit towards a Computer Science degree program.
Prerequisite(s): ECE 255 or CENG 255.

ECE 360  Units: 1.5  Hours: 3-1.5-0
Formerly: ELEC 360
Control Theory and Systems I
Characterization of systems: linearity, time invariance and causality. General feedback theory; time and frequency domain analysis of feedback control systems; Routh-Hurwitz and Nyquist stability criteria; root locus methods; modelling of dc servos; design specifications and system performance; design of PID controllers; lead and lag compensators; introduction to state-space methods.
Note: Credit will be granted for only one of ECE 360, ELEC 360.
Prerequisite(s): ECE 260 or ELEC 260.

ECE 365  Units: 1.5  Hours: 3-1.5-1
Formerly: ELEC 365
Applied Electronics and Electrical Machines
Characteristics of electronic devices including diodes, bipolar junction transistors and operational amplifiers; analysis of practical electronic circuits such as rectifiers, voltage regulators, amplifiers and filters; fundamentals of electromechanical energy conversion; transformers and actuators; operating principles of rotating electric machines: dc machines and ac machines.
Note: Credit will be granted for only one of ECE 365, ELEC 365.
Prerequisite(s):
• One of ECE 216, ELEC 216, PHYS 216; and
• ECE 250 or ELEC 250.

ECE 370  Units: 1.5  Hours: 3-1.5-0
Formerly: ELEC 370
Electromechanical Energy Conversion
Note: Credit will be granted for only one of ECE 370, ELEC 370.
Prerequisite(s):
• ECE 216 or ELEC 216; and
• ECE 250 or ELEC 250.

ECE 380  Units: 1.5  Hours: 3-3-0.5
Formerly: ELEC 380
Electronic Circuits II
Note: Credit will be granted for only one of ECE 380, ELEC 380.
Prerequisite(s):
• ECE 300 or ELEC 300; and
• ECE 320 or ELEC 320; and
• ECE 330 or ELEC 330.

ECE 399  Units: 1.5  Hours: 1-6-0
Formerly: CENG 399, ELEC 399
Design Project I
Focuses on engineering design using real-world, team-based projects, which are proposed by external clients and cover various electrical and computer engineering topics. Project deliverables include requirements specification, a technical literature review and a feasibility study.
Note: Credit will be granted for only one of ECE 399, CENG 399, ELEC 399.
Prerequisite(s):
• One of ECE 399, CENG 299, ELEC 200, ELEC 299; and
• ENGR 001; and
• minimum third-year standing in the BEng program in Electrical or Computer Engineering, or
• permission of the department.

ECE 403  Units: 1.5  Hours: 3-1.5-0
Formerly: ELEC 403
Optimization for Machine Learning
The steepest descent, Newton, conjugate, and quasi-Newton algorithms for unconstrained optimization. Inexact line search techniques. Application of optimization methods to classification, logistic regression, and support vector machines for signal processing and machine intelligence involving audio, image, video, and other types of data. Introduction to constrained optimization.
Note: Credit will be granted for only one of ECE 403, ELEC 403.
Prerequisite(s): MATH 200.

ECE 404  Units: 1.5  Hours: 3-1.5-0
Formerly: ELEC 404
Microwaves and Fiber Optics
Transmission line theory, Smith chart and design examples, transmission lines and waveguides, network analysis, design of impedance matching and tuning networks, aspects of coupled lines, radiation and amplification, optical fibers, numerical aperture, single mode and multimode fibers, chromatic dispersion, fiber optic components.
Note: Credit will be granted for only one of ECE 404, ELEC 404.
Prerequisite(s):
• ECE 300 or ELEC 300; and
• ECE 340 or ELEC 340.

ECE 405  Units: 1.5  Hours: 3-0-0
Formerly: ELEC 405
Error Control Coding
The channel coding problem; coding approaches and characteristics; linear block codes; bounds on codes; finite fields; cyclic, BCH and Reed-Solomon codes; convolutional codes and the Viterbi algorithm; error control in data storage and transmission systems.
Note: Credit will be granted for only one of ECE 405, ELEC 405.
Prerequisite(s):
• Minimum fourth-year standing in the Faculty of Engineering, or
• permission of the department.

ECE 407  Units: 1.5  Hours: 3-0-0
Formerly: ELEC 407
Digital Signal Processing II
Note: Credit will be granted for only one of ECE 407, ELEC 407, ELEC 458.
Prerequisite(s): ECE 310 or ELEC 310.

ECE 410  Units: 1.5  Hours: 3-1.5-0
Formerly: ELEC 410
Power Electronics
Note: Credit will be granted for only one of ECE 410, ELEC 410.
Prerequisite(s):
• ECE 370 or ELEC 370; and
• ECE 380 or ELEC 380.

ECE 412  Units: 1.5  Hours: 3-0-0
Formerly: ELEC 412
Electronic Devices II
Note: Credit will be granted for only one of ECE 412, ELEC 412.
Prerequisite(s): ECE 320 or ELEC 320.
ECE 417 Units: 1.5 Hours: 3-1.5-0
Formerly: ELEC 417

Software Defined Radio
Software defined radio architectures. Receiver design: radio frequency, digital signal processing, software. Application to analog and digital communications, cognitive radio, dynamic spectrum access. Implementation of software radio algorithms using GNU Radio, Simulink or other platforms.

Note: Credit will be granted for only one of ECE 417, ELEC 417.

Prerequisite(s): ECE 350 or ELEC 350.

ECE 420 Units: 1.5 Hours: 3-0-0
Formerly: ELEC 420

Nanotechnology

Note: Credit will be granted for only one of ECE 420, ELEC 420.

Prerequisite(s): ECE 320 or ELEC 320.

ECE 426 Units: 1.5 Hours: 3-1.5-0
Formerly: ELEC 426

Robotics

Note: Credit will be granted for only one of ECE 426, ELEC 425, ELEC 475, MECH 430.

Prerequisite(s): ECE 360 or ELEC 360, and ENGR 141 or MECH 245, and PHYS 1110 or PHYS 1122.

ECE 434 Units: 1.5 Hours: 3-0-0
Formerly: ELEC 434

Biophotonics
An overview of basic optics (including the principles of lasers), biology and photobiology will be given. Practical applications will be presented including bioimaging, biosensing and microarray technologies, flow cytometry, photodynamic therapy, tissue engineering (including laser surgery), and laser scissors and tweezers.

Note: Credit will be granted for only one of ECE 434, BME 434, ELEC 434.

Prerequisite(s): ECE 340 or ELEC 340.

ECE 435 Units: 1.5 Hours: 3-0-0
Also: BME 403
Formerly: ELEC 435

Medical Image Processing
Image processing and understanding techniques applied in medical imaging technologies such as CT, MRI, ultrasound, X-ray. Design of computer aided diagnosis systems. Topics include algorithms for filtering, edge detection, segmentation, registration and 3D visualization of medical data.

Note: Credit will be granted for only one of ECE 435, BME 403, ELEC 435.

Prerequisite(s): ECE 310 or ELEC 310.

ECE 440 Units: 1.5 Hours: 3-0-0
Formerly: CENG 412

Human Factors in Engineering
Accidents associated with “human error” often reflect the failure to recognize human factors in the design stage. Reviews sensory, motor, and cognitive performance characteristics and derives human engineering design criteria. Principles of displays, controls and ergonomics are discussed.

Note: Credit will be granted for only one of ECE 440, CENG 412, SENG 412.

Prerequisite(s): STAT 254 or STAT 260.

ECE 441 Units: 1.5 Hours: 3-1.5-0
Formerly: CENG 441

Design of Digital and VLSI Systems

Note: Credit will be granted for only one of ECE 441, CENG 440, CENG 441, CENG 465.

Prerequisite(s): One of ECE 241, CENG 241, CENG 290; and minimum fourth-year standing in the Faculty of Engineering.

ECE 448 Units: 1.5 Hours: 3-0-0
Formerly: CENG 448

Cyber-System Security
Introduction to abstract algebra and finite field arithmetic. Hardware attacks and mitigation techniques. Hardware trojans and hardware trojan detection techniques. Trusted design in FPGAs. Security in embedded systems. Design for hardware trust. Security and testing. Crypto-processors architecture and design for security.

Note: Credit will be granted for only one of ECE 448, CENG 448.

Prerequisite(s): Minimum fourth-year standing in the Faculty of Engineering; or permission of the department.

ECE 449 Units: 1.5 Hours: 3-3-0
Formerly: CENG 450

Computer Systems and Architecture
Architecture and performance of modern processors, performance metrics; instruction set architectures and their impact on performance; instruction and arithmetic pipelines; pipeline hazards; exception handling; caches. Integral to the course is a Project Laboratory. Working in teams, students are expected to design and implement a processor based on a given specification of a simple instruction set. Student’s progress is determined through a preliminary design review, a presentation, demonstration of the implementation and a final report.

Note: Credit will be granted for only one of ECE 449, CENG 450.

Prerequisite(s): One of ECE 355, CENG 355, CSC 355.

ECE 450 Units: 1.5 Hours: 3-1.5-0
Formerly: ELEC 450

Communications Theory and Systems II
Transmission and filtering of random signals, analysis of modulation systems, in particular pulse code modulation, phase shift keying, frequency shift keying, etc., design of moderns and of CODECs, introduction to noise analysis, information theory and coding.

Note: Credit will be granted for only one of ECE 450, ELEC 450.

Prerequisite(s): ECE 350 or ELEC 350.

ECE 452 Units: 1.5 Hours: 3-1.5-0
Formerly: ELEC 452

Optical Communication Technology
Modern photonic devices, principles and applications. Topics include optical waveguides and fibers, attenuation, chromatic and polarization mode dispersion, light emitting diodes, laser diodes, laser noises and reduction techniques, photo detectors, noises, passive optical polarizers, couplers, isolators and circulators, Mach-Zehnder interferometer, fiber Bragg grating, optical filters, optical multiplexer and demultiplexer, arrayed waveguide gratings and Echelle gratings, optical amplifiers, optical microcavities and plasmonic devices. Nonlinear effects and devices.

Note: Credit will be granted for only one of ECE 452, ELEC 452.

Prerequisite(s): ECE 320 or ELEC 320; and ECE 340 or ELEC 340.

ECE 453 Units: 1.5 Hours: 3-0-0
Formerly: ELEC 453

Antennas and Propagation
Fundamental parameters of antennas and propagation; propagation in macro to pico cells, fading, diffraction, scattering, surface-waves and ionospheric propagation; potential functions; wire antennas; antenna arrays; aperture and horn antennas; printed-circuit antennas; reflector antennas; ultra-wideband antennas; corrugated horns; antenna measurements.

Note: Credit will be granted for only one of ECE 453, ELEC 453.

Prerequisite(s): ECE 340 or ELEC 340.
ECE 454 - Units: 1.5 Hours: 3-1.5-0
Formerly: ELEC 454
Engineering Components for Wireless Systems
Circuit theory for waveguiding systems, scattering parameters, waveguide discontinuities, couplers, resonators, microwave filters, nonreciprocal devices, computer-aided design of active microwave circuits for wireless communication systems.
Note: Credit will be granted for only one of ECE 454, ELEC 454.
Prerequisite(s): ECE 404 or ELEC 404.

ECE 455 - Units: 1.5 Hours: 3-3-0
Formerly: CENG 455
Real Time Computer Systems Design Project
Techniques to guarantee the completion of computations by their deadline. Scheduling for periodic and non-periodic tasks. Organization and functionality of real time system software and hardware. Working in teams, students must complete a project involving substantial real time design and implementation, partly based on the knowledge and skills acquired in earlier coursework. Learning outcomes are based on a progress review, presentation, demonstration, and final report of the prototype design.
Note: Credit will be granted for only one of ECE 455, CENG 455.
Prerequisite(s): One of ECE 355, CENG 355, CSC 355.

ECE 456 - Units: 1.5 Hours: 3-0-0
Formerly: ELEC 456
Wireless and Mobile Communications
Path loss, fading and shadowing models; digital transmission over fading channels; diversity transmission/reception; adaptive modulation; multicarrier transmission/OFDM; spread spectrum and multiple access (FDMA/TDMA/CDMA) for mobile communications; capacity estimation and coverage analysis, with applications to Wi-Fi and beyond 3G cellular systems.
Note: Credit will be granted for only one of ECE 456, ELEC 456.
Prerequisite(s): ECE 350 or ELEC 350.

ECE 457 - Units: 1.5 Hours: 3-0-0
Formerly: CENG 453
Parallel and Cluster Computing
Overview of massively parallel and cluster computers. Processing models (shared memory versus message passing). Processes and threads. Standard algorithms utilizing parallelism. Matrix and vector operations, N-body problems, collective communications. Parallel application environments MPI and OpenMP. Includes significant exposure to parallel applications including developing and coding parallel codes.
Note: Credit will be granted for only one of ECE 457, CENG 453.
Prerequisite(s):
• Minimum fourth-year standing in the Faculty of Engineering, or
• permission of the department.

ECE 458 - Units: 1.5 Hours: 3-1.5-0
Formerly: CENG 460
Communication Networks
Introduction to communication networking principles and engineering including resource management, error control, flow control, congestion control, TCP/IP model, algorithm and protocol design for wireless and wired communication networks.
Note: Credit will be granted for only one of ECE 458, CENG 460, CSC 361, CSC 450.
Prerequisite(s): One of ECE 255, CENG 255, CSC 230.

ECE 459 - Units: 1.5 Hours: 3-1.5-0
Formerly: ECE 459
Applications of Digital Signal Processing Techniques
Note: Credit will be granted for only one of ECE 459, ELEC 459.
Prerequisite(s): ECE 310 or ELEC 310.

ECE 460 - Units: 1.5 Hours: 3-0-0
Formerly: ELEC 460
Control Theory and Systems II
Sampling in control systems. The z transform and responses between sampling instants. Analysis of sampled data systems and stability testing. State-space analysis and design of continuous and discrete systems. Controllability, observability and zero input stability analysis. Pole placement techniques.
Note: Credit will be granted for only one of ECE 460, ELEC 460.
Prerequisite(s): One of ECE 360, ELEC 360, MECH 380.

ECE 461 - Units: 1.5 Hours: 3-1.5-0
Formerly: ELEC 461
Dynamics and Control of Switched Mode Power Supplies
Introduction to Switch mode power supplies. Detailed analysis of non-isolated converters (Buck, Boost, Buck-boost, Cuk, etc.) and isolated converters (Flyback, Forward, Push-pull, Half bridge, Full bridge, Current Source converters, etc.). State space averaging technique to model converters. Design of multi-loop controllers (inner current loop and outer voltage loop). Introduction to PWM switch model as an alternative to state space averaging technique.
Note: Credit will be granted for only one of ECE 461, ELEC 461.
Prerequisite(s):
• ECE 330 or ELEC 330; and
• ECE 360 or ELEC 360.

ECE 462 - Units: 1.5 Hours: 3-0-0
Formerly: ELEC 462
Motor Drive Dynamics
Note: Credit will be granted for only one of ECE 462, ELEC 462.
Prerequisite(s):
• ECE 330 or ELEC 330; and
• ECE 360 or ELEC 360; and
• ECE 370 or ELEC 370.

ECE 463 - Units: 1.5 Hours: 3-0-0
Formerly: CENG 461
Design and Analysis of Computer Networks
Note: Credit will be granted for only one of ECE 463, CENG 461.
Prerequisite(s): STAT 254 or STAT 260.

ECE 466 - Units: 1.5 Hours: 3-1.5-0
Formerly: ELEC 466
System-on-Chip Engineering for Signal Processing
Design and System-on-Chip (SOC) implementation for signal processing applications. SOC design and testing methodologies, Platform-based design, Intellectual Property (IP) reuse, and built-in self-test. Controlling power consumption in SOC implementations. SOC multi-technology integration of analog and digital electronics, sensors and MEMS.
Note: Credit will be granted for only one of ECE 466, ELEC 466.
Prerequisite(s):
• One of ECE 355, CENG 355, CSC 355, MECH 405, MECH 458; and
• Either one of ECE 310 or ELEC 310, or both of MECH 380 and MECH 455.

ECE 470 - Units: 1.5 Hours: 3-0-0
Formerly: CENG 420, CENG 490
Artificial Intelligence
Philosophy of artificial intelligence. AI programs and languages, representations and descriptions, exploiting constraints. Rule-based and heuristic systems. Applications to engineering.
Note: Credit will be granted for only one of ECE 470, ECE 490 (if taken in the same topic), or both of ELEC 490 and CENG 490 (if taken in the same topic).
Prerequisite(s): Minimum fourth-year standing in the Faculty of Engineering.
ECE 471 - Units: 1.5  Hours: 3-1.5-0
Formerly: CENG 421
Computer Vision
Overview of the main concepts and methods in computer vision; geometry and physics of imaging, as related to image formation and image acquisition; low-level methods of image analysis, such as filtering, edge detection, feature detection, and segmentation; methods for extracting and representing three-dimensional scene information; visual pattern recognition; motion analysis and algorithms for video understanding.
Note: Credit will be granted for only one of ECE 471, CENG 421.
Prerequisite(s): ECE 310 or ELEC 310.

ECE 481 - Units: 1.5  Hours: 3-0-0
Formerly: ELEC 481
Analog VLSI Systems
Review of IC technologies, device models and design concepts. Design of monolithic op amps, regulators, multipliers, oscillators, PLLs, A/D and D/A converters and other non-linear and high-speed ICs. Study and design of integrated filters, switched-capacitor circuits, CCDs and other sampled-data circuits. Design and applications of analog neural network and other analog-digital LSI.
Note: Credit will be granted for only one of ECE 481, ELEC 481.
Prerequisite(s):
- ECE 320 or ELEC 320; and
- ECE 380 or ELEC 380.

ECE 482 - Units: 1.5  Hours: 3-0-0
Formerly: ELEC 482
Electrical Drive Systems
Elements of drive systems, characterization of mechanical loads, requirements of electrical drive systems, dynamic equations and modelling of electrical machines, dc drives with various dc power sources, induction motor drives, ac controller, slip-energy recovery, constant air-gap flux, synchronous motor drives, permanent magnet motors, reluctance motors.
Note: Credit will be granted for only one of ECE 482, ELEC 482.
Prerequisite(s): One of ECE 365, ECE 370, ELEC 365, ELEC 370.

ECE 483 - Units: 1.5  Hours: 3-0-0
Formerly: ELEC 483
Digital Video Processing
Note: Credit will be granted for only one of ECE 483, ELEC 483.
Prerequisite(s): ECE 310 or ELEC 310.

ECE 484 - Units: 1.5  Hours: 3-0-0
Formerly: ELEC 484
Audio Signal Processing
Introduction to digital audio effects and applications. Parametric filters, shelving filters, time-varying filters. Delay structures, delay-based audio effects. Dynamics processing, non-linear processing. Spatial effects, 3D audio, reverberation. Time segment processing, pitch shifting, time stretching. Time-frequency processing, phase vocoder.
Note: Credit will be granted for only one of ECE 484, ELEC 484.
Prerequisite(s): ECE 310 or ELEC 310.

ECE 485 - Units: 1.5  Hours: 3-0-0
Formerly: ELEC 485
Data Analysis and Pattern Recognition
Statistical data analysis and random processes, ergodicity and stationarity, feature extraction and selection, Bayesian decision procedures, parametric and non-parametric pattern classification and clustering techniques. Applications to big data, data science, and computer security problems.
Note: Credit will be granted for only one of ECE 485, ELEC 485.
Prerequisite(s): STAT 254 or STAT 260.

ECE 486 - Units: 1.5  Hours: 3-0-1.5
Formerly: ELEC 486
Multiresolution Signal and Geometry Processing With C++
Multirate signal processing, upsampling, downsampling, sampling rate conversion, polyphase techniques, multirate filter banks, multiresolution signal representations, wavelets, digital geometry processing, polygon meshes, subdivision surfaces/wavelets, efficient multiresolution signal processing. Applications in data compression, computer graphics/animation, geometric modeling, communications, and signal processing. C++ programming language, libraries such as OpenGL and CGAL.
Note: Credit will be granted for only one of ECE 486, ELEC 486.
Prerequisite(s): ECE 310 or ELEC 310.

ECE 488 - Units: 1.5  Hours: 3-0-0
Formerly: ELEC 488
Electrical Power Systems
Basic concepts of electric power systems illustrating usage of admittance and impedance matrices for load-flow solutions. Three-phase salient and round rotor synchronous machines. Three-phase transformer. Transmission line parameters. Representation and analysis of transmission lines including ABCD parameters, Symmetrical components and sequence networks. Symmetrical faults such as three phase faults. Unsymmetrical faults such as single line to ground, double line and double line to ground faults.
Note: Credit will be granted for only one of ECE 488, ELEC 488.
Prerequisite(s): One of ECE 365, ECE 370, ELEC 365, ELEC 370.

ECE 490 - Units: 1.5 or 3.0
Formerly: CENG 490, ELEC 490
Directed Studies
Notes:
- Credit will be granted for only one of ECE 490, CENG 490 (if taken in the same topic), ELEC 490 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s): Permission of the department.

ECE 496A - Units: 1.5  Hours: 3-0*-0
Formerly: ELEC 496A
Selected Topics in Electrical and Computer Engineering
Presents material in an emerging field or one not covered in regular offerings. Some topics may require laboratory work as well as lectures. Enrollment will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered. *Lab hours may vary depending on the topic.
Notes:
- Credit will be granted for only one of ECE 496A (if taken in the same topic), ECE 496B (if taken in the same topic), ECE 496C (if taken in the same topic), ECE 496D (if taken in the same topic), BME 401A (if taken in the same topic), BME 401B (if taken in the same topic), BME 401C (if taken in the same topic), BME 401D (if taken in the same topic), BME 401 E (if taken in the same topic), BME 401 F (if taken in the same topic), BME 401 G (if taken in the same topic), BME 401 H (if taken in the same topic), BME 401 I (if taken in the same topic), BME 401 J (if taken in the same topic), BME 401 K (if taken in the same topic), BME 401 L (if taken in the same topic), BME 401 M (if taken in the same topic), BME 401 N (if taken in the same topic), BME 401 O (if taken in the same topic), BME 401 P (if taken in the same topic), BME 401 Q (if taken in the same topic), BME 401 R (if taken in the same topic), BME 401 S (if taken in the same topic), BME 401 T (if taken in the same topic), BME 401 U (if taken in the same topic), BME 401 V (if taken in the same topic), BME 401 W (if taken in the same topic), BME 401 X (if taken in the same topic), BME 401 Y (if taken in the same topic), BME 401 Z (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s): Set by department depending upon topic.
ECE 496B - ECON 104

**ECE 496B**

Units: 1.5

**Selected Topics in Electrical and Computer Engineering**

Presents material in an emerging field or one not covered in regular offerings. Some topics may require laboratory work as well as lectures. Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.

*Lab hours may vary depending on the topic.

**Notes:**

- Credit will be granted for only one of ECE 496B (if taken in the same topic), ECE 496A (if taken in the same topic), ECE 496C (if taken in the same topic), ECE 496D (if taken in the same topic).
- May be taken more than once for credit in different topics.

**Prerequisite(s):**

- Set by department depending upon topic.

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**ECE 496D**

Units: 1.5

**Selected Topics in Electrical and Computer Engineering**

Presents material in an emerging field or one not covered in regular offerings. Some topics may require laboratory work as well as lectures. Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.

*Lab hours may vary depending on the topic.

**Notes:**

- Credit will be granted for only one of ECE 496D (if taken in the same topic), ECE 496A (if taken in the same topic), ECE 496B (if taken in the same topic), ECE 496C (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

**Prerequisite(s):**

- Set by department depending upon topic.

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**ECON 100**

Units: 1.5

**The Canadian Economy - Problems and Policies**

A discussion of some of the important issues in economic decision making in both private and public sectors of the Canadian economy with an introduction to the basic concepts of economic analysis.

**Notes:**

- Not open for credit to students registered in or with credit in any of ECON 103, ECON 103C, ECON 104, ECON 180.

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**ECON 103**

Units: 1.5

**Principles of Microeconomics**

The principles of microeconomic analysis with special reference to the theory of demand, the theory of the firm and the theory of distribution.

**Notes:**

- Credit will be granted for only one of ECON 103, ECON 103C, ECON 180, ECON 201, ADMN 310, ENGR 280 (if taken prior to May 2012).
- ECON 103 cannot be taken concurrently with ECON 100.

**Recommendation(s):**

- One of MATH 120, Principles of Mathematics 12, Pre-Calculus 12 recommended prior to ECON 103.

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**ECON 104**

Units: 1.5

**Principles of Macroeconomics**

The principles of macroeconomic analysis with special reference to fluctuations in income and prices, monetary and fiscal policies for economic stabilization.

**Notes:**

- Credit will be granted for only one of ECON 104, ECON 202.
- ECON 104 cannot be taken concurrently with ECON 100.

**Recommendation(s):**

- One of MATH 120, Principles of Mathematics 12, Pre-Calculus 12 recommended prior to ECON 104.
ECON 111 - ECON 306

ECON 111  Units: 1.5  Hours: 3-0-0
The Economy and the Environment
Investigates the linkages between economic activity and the environment. Studies the relationships between economic growth, trade, urbanization and the global environment, with a particular focus on urban air pollution, water pollution, hazardous waste, solid waste management, and climate change. Environmental policy design, in both developed and developing countries, is the central unifying theme of the course. The course is non-technical in nature and does not require any background in economics or environmental studies.

Notes:
- Credit will not be granted for ECON 111 if ECON 203, ECON 381 or ECON 381C have already been completed.
- ECON 111, and ECON 381 or ECON 381C cannot be taken concurrently.

ECON 112  Units: 1.5  Hours: 3-0-0
Strategy, Conflict and Co-operation
A non-technical introduction to the study of interactive decision making. Key concepts of formal game theory are developed. Presented by illustrations drawn variously from economics, politics, law, history, biology, psychology and current affairs.

Note: Credit will not be granted for ECON 112 if ECON 203 has already been completed.
Recommendation(s): One of MATH 120, Principles of Mathematics 12, Pre-Calculus 12 recommended prior to ECON 112.

ECON 113  Units: 1.5  Hours: 3-0-0
Introduction to Economics for Policy Analysis
A non-technical introduction to key concepts in economics and their application to the design of public policy. Begins by examining the role of markets in the allocation of resources in society, and circumstances under which policy intervention may be justified. Examines a variety of contemporary policy issues from an economic perspective. Issues may include health care, education, environmental policy, industry regulation, urban development, welfare reform and child care provision. Requires no prior knowledge of economics.

ECON 180  Units: 1.5  Hours: 3-0-0
Formerly: ECON 103C
Introduction to Principles of Microeconomics and Financial Project Evaluation
A concentrated introduction to principles of microeconomics and financial project evaluation for Engineering students. Microeconomic topics include theories of demand, the firm, and the distribution of income. Financial project evaluation topics include time value of money, interest rates and loans, and financial decision-making considering depreciation, taxes and risk. Assumes competency in calculus, algebra and familiarity with computer spreadsheet software.

Note: Credit will be granted for only one of ECON 180, ECON 103, ECON 103C.
Prerequisite(s):
- MATH 101; and
- admission to BEng or BEng program.

ECON 185  Units: 1.5  Hours: 3-0-0*
Introductory Topics in Economics
* Contact hours may vary depending on the topic.
Note: May be taken more than once for credit in different topics with permission of the department.

ECON 203  Units: 1.5  Hours: 3-1-0
Intermediate Microeconomics I
An examination of the theories of consumer demand, production and cost; the firm and market under conditions of perfect competition, monopoly, monopolistic competition and oligopoly; factor markets and distribution; and welfare economics.

Notes:
- Credit will be granted for only one of ECON 203, ECON 302, ECON 304A.
- ECON 203 cannot be taken concurrently with ECON 205.
Prerequisite(s):
- One of ECON 103, ECON 103C, ECON 180; and
- one of MATH 100, MATH 102, MATH 109.

ECON 204  Units: 1.5  Hours: 3-0-0
Intermediate Macroeconomics
Theories of aggregate economic behaviour, the determination of national income and employment, consumption, investment, inflation, growth and fluctuations, economic policy.

Note: Credit will be granted for only one of ECON 204, ECON 301, ECON 303, ECON 304B.

Prerequisite(s):
- One of ECON 103, ECON 103C, ECON 180; and
- ECON 104; and
- one of MATH 100, MATH 102, MATH 109.

ECON 205  Units: 1.5  Hours: 3-0-0
Managerial Economics
Basic microeconomic theory and optimization techniques and their application to managerial decision making. Topics include demand, production, and cost analysis; market structure and pricing practices; and regulation. Course also examines estimation, forecasting, international implications, and case studies.

Notes:
- Credit will not be granted for ECON 205 if ECON 203 or ECON 302 has already been completed.
- ECON 203 and ECON 205 cannot be taken concurrently.
Prerequisite(s): One of ECON 103, ECON 103C, ECON 180.

ECON 225  Units: 1.5  Hours: 3-0-0
Writing for Economists
Extensive practice in written technical and non-technical composition. Basic grammar will be reviewed, including sentence syntax, punctuation, and paragraph construction. Students will be exposed to the correct style for the various documents they are likely to encounter.

Note: A comprehension and writing test will be given in the first seven calendar days of the course. Students who fail the test will be required to see the Economics ECON 225 TA during the term to upgrade their writing skills. Students satisfy the ECON 225 course requirement if they have passed ENGR 240.
Prerequisite(s):
- One of ECON 103, ECON 103C, ECON 180; and
- ECON 104; and
- Academic Writing Requirement satisfied; and
- declared Honours, Major, General, or Minor in Economics.

ECON 245  Units: 1.5  Hours: 3-1-0
Descriptive Statistics and Probability

Notes:
- Credit will be granted for only one of ECON 245, ECON 246.
- See “Credit Limit - Beginning Level Statistics Courses”.
Prerequisite(s):
- One of MATH 100, MATH 102, MATH 109.
Pre- or Corequisite(s):
- One of ECON 103, ECON 103C, ECON 180; and
- ECON 104.

ECON 246  Units: 1.5  Hours: 3-1-0
Statistical Inference
Estimation, confidence intervals and hypothesis tests. Simple regression and correlation. Multiple regression; t and F tests.

Notes:
- Credit will be granted for only one of ECON 246, ECON 340.
- Not open to students registered in or with credit in STAT 261.
- STAT 252 cannot be used to satisfy the prerequisites.
Prerequisite(s):
- ECON 245 or STAT 260; and
- one of MATH 100, MATH 102, MATH 109.

ECON 305  Units: 1.5  Hours: 3-0-0
Money and Banking
The principles of money, credit creation and banking; organization, operation and control of the banking system; and the relationship between the quantity of money and the level of economic activity.

Prerequisite(s):
- One of ECON 103, ECON 103C, ECON 180; and
- ECON 104; and
- Academic Writing Requirement satisfied.

ECON 306  Units: 1.5  Hours: 3-0-0
International Economics
An introduction to international trade and finance. Topics include determinants of trade, balance of payments, and policy issues of current interest. The latter may include the political economy of tariffs, bilateral and multilateral trade negotiations, trade and development.

Note: Credit will not be granted for ECON 306 if ECON 405A has already been completed.
Prerequisite(s):
- One of ECON 103, ECON 103C, ECON 180; and
- ECON 104; and
- one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.
ECON 308  Units: 1.5  Hours: 3-0-0
Economics and the Law
Application of economic principles and methodology, including transactions costs and the Coase Theorem, to different areas of law. Areas include the law of property, torts and contracts, criminal, family, and corporate law.
Notes:
• Credit will be granted for only one of ECON 308, ECON 408, ECON 408A, ECON 408B.
• Not open to credit for students with credit in ECON 311A or ECON 311B.
Prerequisite(s):
• One of ECON103, ECON 103C, ECON 180; and
• ECON 104; and
• Academic Writing Requirement satisfied.
Recommendation(s): ECON 203 recommended prior to ECON 308.

ECON 309  Units: 1.5  Hours: 3-0-0
Formerly: ECON 310B
Competition Policy
Applications of economic analysis to government competition policies in Canada; may also include the United States, Europe, and other countries for a global perspective. Topics may include competition policy and enforcement for mergers, cartels, bid-rigging, predatory pricing, tying and bundling, exclusive dealing, and resale price maintenance.
Note: Credit will be granted for only one of ECON 309, ECON 310, ECON 310B.
Prerequisite(s):
• One of ECON 103, ECON 103C, ECON 180; and
• Academic Writing Requirement satisfied.

ECON 312  Units: 1.5  Hours: 3-0-0
Urban Land Economics
Applications of economic principles to the economic role of cities and the spatial structure of urban areas. Topics include land use and the built environment, urban external effects and land use, land use planning and the urban land market, and the role of cities as centres of consumption and production.
Note: Credit will be granted for only one of ECON 312, ECON 412, ADMN 445.
Prerequisite(s): One of ECON 103, ECON 103C, ECON 180.

ECON 313  Units: 1.5  Hours: 3-0-0
Intermediate Macroeconomics II
Selected topics may include intertemporal choice, the organization of the firm, imperfect competition in product markets, discrimination in labour markets, basic game theory, "lemons" models, and additional topics in distribution and welfare economics not included in 203.
Note: Credit will be granted for only one of ECON 313, ECON 300.
Prerequisite(s):
• ECON 203 with a minimum grade of C; and
• one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240; and
• one of MATH 100, MATH 102, MATH 109.

ECON 317  Units: 1.5  Hours: 3-0-0
The Economics of Canadian Health Care
An analysis of resource allocation in the Canadian health care sector. Topics include the special characteristics of health care goods and services, market failures in the health care sector, economic modelling of the consumption and production of health care, and current issues in the economics of health care.
Prerequisite(s): One of ECON 103, ECON 103C, ECON 180.

ECON 318  Units: 1.5  Hours: 3-0-0
Health Economics
Economic analysis of health-affecting behaviours and of actors within the health care system. Topics may include: health insurance and its private and public provision, physician behaviour, social determinants of health, equity and efficiency in health care, and the economics of behaviors such as smoking, alcohol use, and risky sex.
Prerequisite(s): One of ECON 103, ECON 103C, ECON 180.

ECON 320  Units: 1.5  Hours: 3-0-0
Economic Development
An introduction to issues and policy problems faced by developing countries. Covers key principles, concepts and measurement issues, empirical facts, and analytical perspectives associated with economic development. Topics will include human development, inequality and poverty, population growth, education, health, and agriculture and rural development. Topics may also include urbanization and migration, role of credit markets, globalization, environment, and other current issues in development.
Prerequisite(s):
• One of ECON 103, ECON 103C, ECON 180; and
• ECON 104; and
• ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.

ECON 321  Units: 1.5  Hours: 3-0-0
The Economic History of Canada
The story of long-run economic growth and welfare in the Canadian economy, with the aid of economic analysis, quantitative data and other historical materials. Emphasis on the development of the Canadian economy from a resource-based economy to a developed industrial economy within an international setting.
Prerequisite(s):
• One of ECON 103, ECON 103C, ECON 180; and
• ECON 104; and
• one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.

ECON 325  Units: 1.5  Hours: 3-0-0
Public Economics
Introduction to the role of government in the economy. Topics include: examination of public goods, externalities, and information asymmetries; market failures resulting from these conditions and policies to address those market failures; taxes, expenditures, and collective decision-making under majority voting. Policy applications include welfare, education, health care spending, and tax policies such as income taxes, consumption taxes, and taxes on carbon emissions.
Prerequisite(s): One of ECON 103, ECON 103C, ECON 180.

ECON 327  Units: 1.5  Hours: 3-0-0
Economic History of North America
The economic history of the United States, Canada, and Mexico over the period 1750-1950. Topics to be covered include the settling of the frontier and the development of farming; water and rail born infrastructure, especially sail and steam shipping and the impact of the railroad; slavery and the cotton South; mercantilism, protectionism and industrialization, and immigration and population growth.
Prerequisite(s):
• One of ECON 103, ECON 103C, ECON 180; and
• ECON 104; and
• one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.

ECON 328  Units: 1.5  Hours: 3-0-0
Economic History of the Pacific Rim
The economic history of the countries of Asia and Latin America having a Pacific Ocean coastline. The main focus is the period 1500 to 1940, namely when European exploration and colonialism dominated the region. Topics include trade, including the slave trade, mercantilism, the impact of European industrialization on economic relations, and the emergence of Japan as an industrial power.
Prerequisite(s):
• ECON 100 or ECON 104; and
• one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240; or
• permission of the department.

ECON 329  Units: 1.5  Hours: 3-0-0
Development and Economics
An introduction to current issues and problems faced by developing countries. Topics may include poverty alleviation, health, education, child and gender issues, urbanization, and globalization. Roles of international aid, non-governmental organizations (e.g., micro credit), and social institutions in development may also be examined.
Notes:
• Credit for this course will not be counted toward any Economics program requirement except as an elective.
• Requires no prior knowledge of economics.
Prerequisite(s): Minimum second-year standing.

ECON 333  Units: 1.5  Hours: 3-0-0
Introduction to Economic Growth
Prerequisite(s):
• ECON 204; and
• ECON 246 or STAT 261.

COURSE LISTINGS ECON
**ECON 337 - ECON 381**

**ECON 337**  
**Units:** 1.5  
**Hours:** 3-0-0  
**History of Economic Thought to 1870**  
Economics from Mercantilism up until the Marginal Revolution. Most attention will be devoted to the "Classical" contributions of Smith, Malthus, Ricardo, J.S. Mill and Marx.  
**Note:** Credit will be granted for only one of ECON 337, ECON 307.  
**Prerequisite(s):**  
• One of ECON 103, ECON 103C, ECON 180, and  
• ECON 104; and  
• one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.  

**ECON 338**  
**Units:** 1.5  
**Hours:** 3-0-0  
**History of Economic Thought Since 1870**  
Economics from the Marginal Revolution of the 1870s until recent times. Most attention will be devoted to Marshall, Walras and Keynes.  
**Note:** Credit will be granted for only one of ECON 338, ECON 307.  
**Prerequisite(s):**  
• One of ECON 103, ECON 103C, ECON 180, and  
• ECON 104; and  
• one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.  
**Pre- or Corequisite(s):** ECON 203 or ECON 205.  
**Recommendation(s):** ECON 337 recommended prior to ECON 338.  

**ECON 339**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Economics of the Family**  
An introduction to the theoretical and empirical literature on the allocation of labour and resources within households, and its relation to labour force outcomes. Topics may include: human capital decisions; gender roles; household production; labour force participation; the economics of marige and divorce; the valuation of unpaid work in national income accounting; child care; gender and development.  
**Note:** Credit will be granted for only one of ECON 339, ECON 439.  
**Prerequisite(s):**  
• One of ECON 103, ECON 103C, ECON 180, and  
• ECON 104; and  
• Academic Writing Requirement satisfied; or  
• permission of the department.  

**ECON 345**  
**Units:** 1.5  
**Hours:** 3-1-0  
**Applied Econometrics**  
An intuitive development of the basic concepts and techniques in econometrics. The emphasis is on the application of econometric concepts and techniques in analyzing economic phenomena.  
**Notes:**  
• Credit will not be granted for ECON 345 if credit has already been received for either one of ECON 365, ECON 445.  
• Cannot be taken concurrently with ECON 365 or ECON 366.  
• Students wishing to proceed to graduate studies in Economics are advised to include ECON 365 and ECON 366 in their undergraduate program instead of ECON 345.  
**Prerequisite(s):**  
• One of ECON 103, ECON 103C, ECON 180, and  
• ECON 104; and  
• ECON 245 with a minimum grade of C+ or STAT 260 with a minimum grade of C+; and  
• ECON 246 or STAT 261; and  
• one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240; and  
• one of MATH 100, MATH 102, MATH 109.  
**Recommendation(s):** ECON 203 and ECON 204 recommended prior to ECON 345.  

**ECON 350**  
**Units:** 1.5  
**Hours:** 3-1-0  
**Mathematical Economics I: An Introduction to Static Methods**  
An introduction to the application of calculus and linear algebra to selected problems in microeconomic and macroeconomic theory.  
**Note:** Credit will be granted for only one of ECON 350, ECON 250.  
**Prerequisite(s):**  
• Either MATH 208 with a minimum grade of B, or  
• all of MATH 101, MATH 110 or MATH 211, MATH 200.  
**Pre- or Corequisite(s):** ECON 203.  

**ECON 351**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Mathematical Economics II: An Introduction to Dynamic Methods**  
Difference equations, differential equations, and dynamic optimization with applications to economics.  
**Note:** Credit will be granted for only one of ECON 351, ECON 351.  
**Prerequisite(s):** ECON 350.  

**ECON 358**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Formerly: ECON 310A**  
**Competition Economics I**  
Economic models and empirical examples of industrial competition. Topics may include perfect competition, monopoly, game theory, oligopoly, mergers, collusion, determing entry, technological change, price discrimination, tying, bundling, resale price maintenance, exclusive dealing.  
**Note:** Credit will be granted for only one of ECON 358, ECON 310, ECON 310A.  
**Prerequisite(s):** One of ECON 103, ECON 103C, ECON 180.  

**ECON 365**  
**Units:** 1.5  
**Hours:** 3-1-0  
**Econometrics: Part I**  
Principles of econometrics with applied examples. Estimation of the regression model; sampling properties of estimators; testing restrictions; restricted least squares. Topics may also include: generalized least squares and the maximum likelihood estimation principle.  
**Note:** Credit will be granted for only one of ECON 365, ECON 445.  
**Prerequisite(s):**  
• One of ECON 103, ECON 103C, ECON 180; and  
• ECON 245 or STAT 260; and  
• ECON 246 or STAT 261; and  
• one of MATH 208 with a minimum grade of B, MATH 101 and MATH 110, MATH 101 and MATH 211.  
**Pre- or Corequisite(s):** One of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.  
**Recommendation(s):** ECON 203 and ECON 204 recommended prior to ECON 365.  
Recommended for students to take both ECON 365 and ECON 366, since they form a sequence.  

**ECON 366**  
**Units:** 1.5  
**Hours:** 3-1-0  
**Econometrics: Part II**  
Principles of econometrics with applied examples. Dummy variables; multicollinearity; stochastic regressors; instrumental variables estimation; seemingly unrelated regressions. Topics may also include: generalized least squares; maximum likelihood; aspects of specification analysis; dynamic models; simultaneous equation models.  
**Notes:**  
• Credit will be granted for only one of ECON 366, ECON 445.  
• Students wishing to proceed to graduate studies in Economics are advised to include ECON 365 and ECON 366 in their undergraduate program instead of ECON 345.  
**Prerequisite(s):** ECON 365.  
**Recommendation(s):** ECON 365 with a minimum grade of B strongly recommended prior to ECON 366.  

**ECON 370**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Labour Economics I**  
Aspects of labour supply and demand, and wage structures. Topics may include: the allocation of time, retirement, unemployment insurance, education and training, male-female wage differentials.  
**Note:** Credit will be granted for only one of ECON 370, ECON 315.  
**Prerequisite(s):** ECON 203.  

**ECON 381**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Also: ES 312**  
**Environmental Economics I**  
An introduction to the economic analysis of environmental problems. In particular, an examination of policy interventions in cases where market activities result in socially undesirable impacts on the environment. Topics typically include: externalities; pollution control policy; climate change; public goods; time, uncertainty and the environment; and trade and the environment.  
**Note:** Credit will be granted for only one of ECON 381, ECON 330, ES 312.  
**Prerequisite(s):** One of ECON 103, ECON 103C, ECON 180.
ECON 382  Units: 1.5 Hours: 3-0-0
Natural Resource Economics I
Introduces students to economic issues and public policies specific to the use and management of natural resources. Explores economic principles for the efficient allocation of renewable and nonrenewable natural resources over time. Topics typically include a review of current natural resource issues affecting Canada, with particular focus on British Columbia, and policies for the management of forests, water, mineral, petroleum and marine resources, and the conservation of biological diversity.

Note: Credit will be granted for only one of ECON 382, ECON 430A.
Prerequisite(s): ECON 203.

ECON 383  Units: 1.5 Hours: 3-0-0
Climate Economics
Introduces complex issues related to the interaction between the economy and climate, and simple tools of economics used to analyze climate-related problems. Role of energy and governance in economic development. Use of economic principles to quantify human influence on climate, evaluate the IPCC’s emissions scenarios, develop instruments for addressing greenhouse gas emissions reductions, compare competing policies for addressing climatic change, and analyze the prospects of proposed solutions to global warming.

Note: Credit for this course will not be counted toward any Economics program requirement except as an elective.
Prerequisite(s): Minimum second-year standing.

ECON 400  Units: 1.5 Hours: 3-0-0
Advanced Topics in Microeconomic Theory
Note: Credit will be granted for only one of ECON 400, ECON 440.
Prerequisite(s):
• ECON 313 and ECON 350, and
• declaredHonours in Economics (BSc); or
• permission of the department.

ECON 401  Units: 1.5 Hours: 3-0-0
Advanced Topics in Macroeconomic Theory
Prerequisite(s):
• All of ECON 204, ECON 313, ECON 350, ECON 351, and
• declaredHonours in Economics (BSc); or
• permission of the department.

ECON 403  Units: 1.5 Hours: 3-0-0
Agricultural Economics and Policy
Economic theory and models applied to problems in agriculture and food production. Agricultural policy in international trade negotiations. Consequences of imperfect competition and rent seeking. Topics include green revolution, climate change, food security, and genetic engineering and the environment.

Note: Credit will be granted for only one of ECON 403, ECON 485 (if taken in the same topic).
Pre- or Corequisite(s):
• ECON 313; or
• permission of the department.

ECON 404A  Units: 1.5 Hours: 3-0-0
International Trade Theory
The study of international trade theory and policy with emphasis on general equilibrium analysis. Topics include the factor proportions theory of trade, technological determinants of trade, the theory of tariffs and trade policy, models of strategic interaction between countries.
Prerequisite(s):
• ECON 203 and ECON 350, and
• one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.
Recommendation(s): ECON 306 recommended prior to ECON 404A.

ECON 405B  Units: 1.5 Hours: 3-0-0
International Monetary Theory and Policy
A study of international macro economics, covering exchange rates, determinants of balance of payments, alternate exchange rate systems, capital mobility, the international monetary system, and open economy macro economic policies.
Prerequisite(s):
• ECON 203 and ECON 204, and
• ECON 345 or ECON 365, and
• one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.

ECON 406  Units: 1.5 Hours: 3-0-0
Monetary Economics
Monetary economics studied in the context of overlapping generations models. Barter and commodity money; flat money and inflation; international monetary systems. Financial intermediation, banking, and the money supply. Deficits and the national debt; saving and investment.
Prerequisite(s):
• ECON 204 and ECON 313, and
• one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.
Recommendation(s): ECON 305 recommended prior to ECON 406.

ECON 407  Units: 1.5 Hours: 3-0-0
Market and Government in the History of Economic Thought
Seminar on the role of markets, business enterprise, and government in the economy as seen by a number of major writers in the history of economics. Selections of material from Adam Smith, J. S. Mill, Karl Marx, Thorstein Veblen, Frank Knight, Joseph Schumpeter, J. M. Keynes, F. A. Hayek, and Milton Friedman will be discussed.
Prerequisite(s):
• ECON 203 and ECON 204, and
• one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240, or
• permission of the department.

ECON 410A  Units: 1.5 Hours: 3-0-0
Problems of Canadian Microeconomic Policy
Selected topics involving the application of microeconomic analysis to Canadian problems and policies; topics vary but generally include education, health care, regulation and competition policy with an emphasis on current affairs.
Note: Credit will be granted for only one of ECON 410A, ECON 410.
Prerequisite(s):
• ECON 203, and
• one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.

ECON 410B  Units: 1.5 Hours: 3-0-0
Problems of Canadian Macroeconomic Policy
Selected topics involving the application of macroeconomic analysis to Canadian problems and policies in the areas of unemployment, inflation and economic growth.
Note: Credit will be granted for only one of ECON 410B, ECON 410.
Prerequisite(s):
• ECON 204, and
• one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.

ECON 413  Units: 1.5 Hours: 3-0-0
Economics of Firm Strategy
Analysis of market competition and business strategy. Topics may include market analysis, competitive advantage, strategic positioning, industry dynamics, strategic commitment, organizational structure, and firm boundaries.
Note: Credit will be granted for only one of ECON 413, ECON 485 (if taken in the same topic).
Prerequisite(s): ECON 313.
Recommendation(s): ECON 345 or ECON 365, and ECON 358 recommended prior to ECON 413.

ECON 416  Units: 1.5 Hours: 3-0-0
Cost Benefit Analysis: Principles and Application
Principles of cost benefit analysis including consideration of welfare economics, the treatment of intangibles, nonefficiency considerations, time discounting, evaluation criteria, uncertainty and risk, selected applications in such areas as human resource economics, natural resource and recreation economics, economic development and urban planning.
Prerequisite(s): ECON 203.
Pre- or Corequisite(s): One of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.

ECON 420  Units: 1.5 Hours: 3-0-0
Theory of Economic Development
An advanced course in the economics of development with reference to developing countries. Students will learn to analyze issues and policy problems faced by developing countries using formal economic models. Topics may include: theories of growth, agriculture, demography and labour markets, education and health, rural credit markets, globalization, and market and non-market institutions.
Prerequisite(s): All of ECON 204, ECON 313, ECON 320.
ECON 422 - ECON 458

ECON 422  
Issues in European Economic Integration  
Units: 1.5  
Hours: 3-0-0  
Covers various aspects of the economics of European integration. Topics may include the history of European integration, the development of macroeconomic institutions, capital and labour market integration, agricultural policy, competition and industrial policy, tax policy, environmental issues, and social choice.  
Prerequisite(s):  
• ECON 203 and ECON 204; and  
• one of ECON 225, ENGL 135 with a minimum grade of B+; ENGL 146 with a minimum grade of B+; ENGL 147 with a minimum grade of B+; ENGR 240  

ECON 423  
Economics and Indigenous Peoples  
Units: 1.5  
Hours: 3-0-0  
Provides an introduction to economic theory and policy analysis relevant for Indigenous peoples in Canada and elsewhere; draws on literature in development economics, health economics, economic history, and labour economics; applies economic principles to policy design in Indigenous contexts; introduces Indigenous research methods to economics students. Provides basic guidance on principles of conduct for working with Indigenous communities. Topics may include an economic history of specific Indigenous peoples, self-governance, labour market outcomes and property rights.  
Prerequisite(s):  
• ECON 313; and  
• ECON 345 or 365.

ECON 435  
Financial Economics  
Units: 1.5  
Hours: 3-0-0  
An introduction to the application of economics to finance, with an emphasis on the theory of asset pricing. Topics include mean-variance portfolio analysis; the capital asset pricing model and arbitrage pricing theory; equity and fixed income securities; options and the Black-Scholes pricing formula; and futures contracts.  
Note: Credit will be granted for only one of ECON 435, COM 446, MBA 525.  
Prerequisite(s):  
• ECON 305; and  
• ECON 313 with a minimum grade of B-; and  
• COM 240 or MATH 242.  
Pre- or Corequisite(s): One of ECON 345, ECON 365, STAT 350.

ECON 437  
Philosophical Problems in Contemporary Economics  
Units: 1.5  
Hours: 3-0-0  
Selected problems with the neoclassical paradigm, with emphasis on the relationship of happiness and well-being to economics. Topics may include rational choice and human agency, cognition and neuroeconomics, gender, social institutions, economic development, and economic justice. In this largely seminar course, prominent non-mainstream views of economics will be read.  
Prerequisite(s):  
• ECON 313; or  
• permission of the department.  
Pre- or Corequisite(s): ECON 345 or ECON 365.

ECON 450  
Game Theory in Economics  
Units: 1.5  
Hours: 3-1-0  
The study of strategic interaction between economic agents. Includes static and dynamic games of complete and incomplete information. Topics may include oligopoly theory, bargaining, voting, public goods, common pool resources, entry deterrence, auctions, signaling, evolutionary games, behavioural economics.  
Prerequisite(s): ECON 203.  
Pre- or Corequisite(s):  
• ECON 350; and  
• one of ECON 225, ENGL 135 with a minimum grade of B+; ENGL 146 with a minimum grade of B+; ENGL 147 with a minimum grade of B+; ENGR 240.

ECON 451  
General Equilibrium and Welfare Economics  
Units: 1.5  
Hours: 3-0-0  
Selected topics in general equilibrium theory and welfare economics.  
Prerequisite(s): ECON 313 and ECON 350.

ECON 452  
Information and Incentives  
Units: 1.5  
Hours: 3-0-0  
Theory and applications of the principal agent model to moral hazard, adverse selection and signalling problems.  
Prerequisite(s):  
• ECON 313 and ECON 350; and  
• one of ECON 225, ENGL 135 with a minimum grade of B+; ENGL 146 with a minimum grade of B+; ENGL 147 with a minimum grade of B+; ENGR 240.

ECON 453  
Economic Growth  
Units: 1.5  
Hours: 3-0-0  
Models of economic growth and fluctuations in the medium to long run. Neoclassical and endogenous growth theories and tests of these theories. Rules of capital, human capital, resources and technology in determining growth rates and income levels in different countries. Additional topics may include: the environment and limits to growth, welfare, theories of the business cycle, effects of demography and social security, international flows of capital, labour and knowledge.  
Pre- or Corequisite(s):  
• ECON 345 or ECON 365; and  
• ECON 351; and  
• one of ECON 225, ENGL 135 with a minimum grade of B+; ENGL 146 with a minimum grade of B+; ENGL 147 with a minimum grade of B+; ENGR 240.

ECON 454  
Theory of Corporate Finance  
Units: 1.5  
Hours: 3-0-0  
Corporate finance is the study of how firms attract capital to finance their operations. Surveys some corporate finance topics that are of particular interest to economists. Topics may include the determinants of capital structure, dividend policy, capital budgeting, the relation between firm finance and product market behaviour, contracting and firm incentives, the role of financial intermediaries, and mergers and takeovers.  
Note: Credit will be granted for only one of ECON 454, COM 445, MBA 524.  
Prerequisite(s):  
• ECON 305; and  
• ECON 313 with a minimum grade of B-; and  
• COM 240 or MATH 242.  
Pre- or Corequisite(s): Either ECON 350, or all of MATH 101, MATH 110 or MATH 211, MATH 200.

ECON 456  
Experimental Economics  
Units: 1.5  
Hours: 3-0-0  
Introduction to the theory and practice of experimental economics using laboratory and field experiments. Students will become acquainted with state-of-the-art methods in experimental economics, including experimental design, subject sampling, laboratory techniques, and the use of financial incentives. The objectives will be pursued through the development of experiments and a review of the method's application to a number of topics of interest to economists.  
Note: Credit will be granted for only one of ECON 456, ECON 485 (if taken in the same topic).  
Prerequisite(s): Permission of the department.  
Pre- or Corequisite(s): One of ECON 225, ENGL 135 with a minimum grade of B+; ENGL 146 with a minimum grade of B+; ENGL 147 with a minimum grade of B+; ENGR 240.  
Recommendation(s): ECON 450 recommended prior to ECON 456.

ECON 457  
Computational Economics  
Units: 1.5  
Hours: 3-1-0  
Formerly: ECON 353  
An introduction to numerical methods and their application in economics.  
Note: Credit will be granted for only one of ECON 457, ECON 353.  
Prerequisite(s):  
• ECON 203 and ECON 204; and  
• one of ECON 225, ENGL 135 with a minimum grade of B+; ENGL 146 with a minimum grade of B+; ENGL 147 with a minimum grade of B+; ENGR 240; and  
• one of CSC 105, CSC 110, CSC 111; and  
• either MATH 208, or all of MATH 101, MATH 110 or MATH 211, MATH 200.  
Recommendation(s): ECON 351 recommended.

ECON 458  
Competition Economics II  
Units: 1.5  
Hours: 3-0-0  
Applies modern tools from industrial organization and game theory to analyze specific industries, and reviews evidence from empirical studies of firm conduct. Discusses research methods used to conduct empirical analysis of the models of imperfect competition. Additional topics may include pricing strategies, market power, collusion, entry, innovation and advertising.  
Note: Credit will be granted for only one of ECON 458, ECON 485 (if taken in the same topic).  
Pre- or Corequisite(s):  
• ECON 310A or ECON 358; and  
• ECON 313; and  
• ECON 345 or ECON 365.  
Recommendation(s): ECON 350 recommended prior to ECON 458.
**ECON 465**  
**Units:** 1.5  
**Hours:** 3-1-0  
**Advanced Applied Econometrics**  
A rigorous examination of advanced aspects of applied econometrics, focusing on specifying and estimating econometric models, and interpreting and reporting estimates from those models.  
*Contact hours may vary.*  
**Note:** Credit will be granted for only one of ECON 465, ECON 486 (if taken in the same topic).  
**Prerequisite(s):**  
- ECON 203;  
- ECON 345 or 365.

**ECON 468**  
**Units:** 1.5  
**Hours:** 3-1-0  
**Financial Econometrics**  
The application of econometric methods to asset pricing models and financial data. Topics may include: stylized facts for financial returns, forecasting returns, volatility modelling and forecasting, tests of the random walk hypothesis, option pricing, extreme values and value at risk, asset portfolios, modelling with ultra-high frequency data.  
**Prerequisite(s):**  
- ECON 305 or COM 240;  
- one of ECON 365, STAT 350, STAT 353; or  
- permission of the department.  
**Pre- or Corequisite(s):** One of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.  
**Recommendation(s):** ECON 366 and ECON 435 recommended prior to ECON 468.

**ECON 471**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Formerly: ECON 371**  
**Labour Economics II**  
Selected topics may include design of optimal compensation systems, labour markets internal to the firm, trade unions, unemployment, personnel economics, discrimination, and labour mobility.  
**Note:** Credit will be granted for only one of ECON 471, ECON 315, ECON 371.  
**Prerequisite(s):**  
- ECON 203; and  
- ECON 345 or ECON 365; and  
- ECON 370; or  
- permission of the department.

**ECON 481**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Environmental Economics II**  
A detailed treatment of advanced topics in environmental economics. Topics covered will vary from year to year, but will typically include a selection from the following: property rights and the Coase theorem, risk and uncertainty, sustainability, policy design under asymmetric information, monitoring and enforcement, green consumerism and corporate environmentalism, trade and the environment, climate change and transboundary pollution, mobile source pollution, non-point source pollution, solid waste management, technological change, and non-market valuation.  
**Prerequisite(s):**  
- ECON 313; and  
- one of ECON 330, ECON 381, ES 312; and  
- one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.  
**Recommendation(s):** ECON 350 recommended prior to ECON 481.

**ECON 482**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Natural Resource Economics II**  
Dynamic optimization as it applies to renewable and non-renewable resources, focusing in particular on dynamic problems related to fishing, logging and mining. Economic principles relating to the governance/regulation of natural resource use will also be examined.  
**Note:** Credit will be granted for only one of ECON 482, ECON 438A.  
**Prerequisite(s):** ECON 313 and ECON 382.  
**Pre- or Corequisite(s):** ECON 351.

**ECON 485**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Topics in Economics**  
The topics in this course depend primarily on the interests of the instructor. Entry to this course will be restricted to third- and fourth-year students who meet the prerequisites for the topic to be offered.  
* Contact hours may vary depending on the topic.  
**Note:** May be taken more than once for credit in different topics with permission of the department.  
**Pre- or Corequisite(s):** One of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.

**ECON 486**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Topics in Economics**  
The topics in this course depend primarily on the interests of the instructor. Entry to this course will be restricted to third- and fourth-year students who meet the prerequisites for the topic to be offered.  
* Contact hours may vary depending on the topic.  
**Note:** May be taken more than once for credit in different topics with permission of the department.  
**Pre- or Corequisite(s):** One of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.

**ECON 496**  
**Units:** 1.5  
**Directed Experiential Learning in Economics**  
Individual examination of analytical issues in economics in relation to work or volunteer activities. Student will work with an instructor to identify issues to be explored and methods of assessment before the experiential learning opportunity begins. Must include at least 200 hours of work or volunteer activities. Assessment normally will involve a reflective journal and final paper.  
**Note:** Student is responsible for proposing an internship and should approach a potential supervising instructor with a one-page typed outline explaining how the internship would provide a good opportunity for studying subject matter directly related to economics.  
**Prerequisite(s):**  
- Minimum third-year standing; and  
- declared Honours or Major in Economics; and  
- permission of the department.

**ECON 499**  
**Units:** 3.0  
**Fourth-Year Honours Thesis and Seminar**  
Seminar for Honours students only. Includes oral presentations related to the student's proposed thesis research, which is carried out under the direction of a faculty supervisor.  
**Note:** Credit will be granted for only one of ECON 499, ECON 470.

**ED-D 101**  
**Units:** 1.5  
**Hours:** 1.5-1.5-0  
**Learning Strategies for University Success**  
An examination of learning behaviours and motivations to improve academic success. Introduces educational psychology theories, principles and research with a focus on self-regulation - the science of strategic, reflective, and adaptive learning. Students are required to master knowledge and apply concepts related to learning, motivation, collaboration, academic performance, and procrastination. Taken as an elective course by students across almost all faculties on campus. Computers are used extensively for applied lab work and assignments.  
**Note:** Students must attend both the lecture (1.5hrs) and a lab (1.5hrs) each week.  
**Corequisite(s):** 1.5 units of any course numbered 100 or higher.
ED-D 300 Units: 1.5
Introduction to Educational Psychology
The scientific study of psychology as it applies to educational activities and contexts. Introduces students to theory, research, and research methodologies that inform our understandings of student development, individual differences and diversity, learning processes, motivation, instructional design, and learning assessment. An excellent foundation for students considering graduate work in education, educational, school or counselling psychology, or the learning sciences.
Note: Credit will be granted for only one of ED-D 300, ED-D 301, ED-D 302, ED-D 303, ED-D 305, EDUC 301.
Prerequisite(s): Registration in a program in Teacher Education.

ED-D 301 Units: 1.5 Hours: 3-0-0
Formerly: EDUC 301
Learners and Learning Environments
An integrated approach to planning for effective learning based on an understanding of the developmental and individual needs of children. The implications for schooling of learning characteristics, gender, and multicultural factors will be addressed.
Note: Credit will be granted for only one of ED-D 301, ED-D 302, ED-D 303, EDUC 301.
Prerequisite(s): Registration in a program in Teacher Education.

ED-D 302 Units: 1.5 Hours: 3-0-0
Experiential Learning and Community Engagement
Designed for students from all faculties planning to engage in experiential learning during their studies, work or volunteer opportunities. Introduces the foundational elements of experiential learning, UVic’s learning outcomes, goal setting and the competency development necessary to contribute effectively and respectfully in diverse contexts.

ED-D 316 Units: 1.5 Hours: 3-0-0
Study of Communication in Interpersonal Relationships
The study of verbal and nonverbal behaviours that lead to more effective interpersonal relationships. Includes the examination of self-concept, perceptions, emotions, language and behaviour that influence the climate in interpersonal relationships. Assertive communication and resolving interpersonal conflict will also be studied. This course will be of interest to persons interested in learning about increasing communication competence in family, social relationships, teaching, business, counselling and mental health.
Recommendation(s): Recommended prior to ED-D 417.

ED-D 337A Units: 1.5 Hours: 3-0-0
Evaluation of Student Achievement in the Arts
The construction of classroom measures, including rating scales, self reports, check lists, performance tests, essay and objective tests; organization, use and reporting of assessment data.
Prerequisite(s): Registration in a program in Teacher Education.

ED-D 337B Units: 1.5 Hours: 3-0-0
Evaluation of Student Achievement in the Humanities and Modern Languages
The construction of classroom measures, including rating scales, self reports, check lists, performance tests, essay and objective tests; organization, use and reporting of assessment data.
Prerequisite(s): Registration in a program in Teacher Education.

ED-D 337C Units: 1.5 Hours: 3-0-0
Evaluation of Student Achievement in Physical Education
The construction of classroom measures, including rating scales, self reports, check lists, performance tests, essay and objective tests; organization, use and reporting of assessment data.
Prerequisite(s): Registration in a program in Teacher Education.

ED-D 337E Units: 1.5 Hours: 3-0-0
Evaluation of Student Achievement in Science and Social Sciences
The construction of classroom measures, including rating scales, self reports, check lists, performance tests, essay and objective tests; organization, use and reporting of assessment data.
Prerequisite(s): Registration in a program in Teacher Education.

ED-D 337F Units: 1.5 Hours: 3-0-0
Evaluation of Student Achievement in Visual Arts
The construction of classroom measures, including rating scales, self reports, check lists, performance tests, essay and objective tests; organization, use and reporting of assessment data.
Prerequisite(s): Registration in a program in Teacher Education.

ED-D 401 Units: 1.5 Hours: 3-0-0
Introduction to Psychology of Classroom Learning
An introduction to the psychology of learning in the secondary school.
Note: Credit will be granted for only one of ED-D 401, ED-D 402, ED-D 403.
Prerequisite(s): Registration in a program in Teacher Education.

ED-D 402 Units: 1.5 Hours: 3-0-0
Assessment For Special Education
An in-depth study of the area of formal and informal assessment of the exceptional learner. Topics include techniques, methods and purposes of assessment; factors important in selecting and administering standardized tests for the purpose of planning educational alternatives, technical information required to interpret tests adequately and limitations on interpretation.
Note: May be taken more than once for credit with permission of the Department if first completed prior to September 2009.
Prerequisite(s): ED-D 405, and admission to Professional Specialization Certificate in Special Education program.

ED-D 405 Units: 1.5 Hours: 3-0-0
Advanced Educational Exceptionality
Intended to familiarize teachers with the needs of children and adolescents with varying special learning needs. A major focus is on Universal Design for Learning (UDL). Topics include: the history of special education services, legal and ethical issues in the provision of services to students with special needs; special and inclusive education policies and procedures; learner characteristics; and working with parents and families of children with a wide range of special needs.
Note: May be taken more than once for credit with payment of the Department if first completed prior to September 2009.
Prerequisite(s): Admission to the Professional Specialization Certificate in Special Education program.

ED-D 406 Units: 1.5 Hours: 3-0-0
Psychology of Adolescence
The physiological, psychological, social and educational aspects of adolescence.
Prerequisite(s): Registration in a program in Teacher Education.

ED-D 407 Units: 1.5 Hours: 3-0-0
Formerly: EDUC 407
Evaluating and Reporting Student Progress
An examination of the principles and procedures associated with the evaluation of student achievement, emphasizing connections between theory and practice, assessment and instruction, and BC Ministry of Education requirements. Topics include: planning and development of classroom assessment procedures; communication of results to students and parents; and current policies and practices. Focuses on developing the ability of pre-service teachers to critically and effectively develop their own assessment practices and resources.
Prerequisite(s): Admission to a program in Teacher Education.

ED-D 408 Units: 1.5 Hours: 3-0-0
Formerly: EDUC 408
Promoting Prosocial Behaviour: Strategies and Management
Designed to provide beginning teachers with insights and concrete strategies that will assist them in preventing and/ or effectively intervening in situations involving discipline, conflict, aggression and bullying. Peacemaking programs and peer conflict management initiatives will be discussed.
Note: Credit will be granted for only one of ED-D 408, EDUC 408.
Prerequisite(s): Admission to a program in Teacher Education.
ED-D 410 Units: 1.5 Hours: 3-0-0
Formerly: EDUC 410
Teacher as Leader: The Professional Role
A seminar in contemporary professional issues, including structures and governance within the BC School system, school law, and legal requirements for the teaching professional. The role of the professional as an ethical, reflective and critically engaged practitioner is emphasized. Themes include teacher leadership, professional growth and collaboration, and maintaining professional relationships in schools and communities. Authentic assessment tools, including rubrics, portfolios, and professional benchmarks will be used for assessing professional growth.
Note: Credit will be granted for only one of ED-D 410, ED-D 430, EDUC 410, ED-B 430.
Prerequisite(s): Admission to a program in Teacher Education.
Grading: INC, COM, N, F.

ED-D 411 Units: 1.5 Hours: 3-0-0
Teaching Students with Behavioural and Emotional Difficulties
An introduction to behaviour, social, emotional and related mental health issues in childhood and adolescence. Causes, diagnosis, and identification will be examined along with contemporary approaches to program planning and intervention within inclusive schools and classrooms.
Prerequisite(s): Admission to Diploma program in Special Education.

ED-D 414 Units: 1.5 Hours: 3-0-0
Group Processes
Analysis, theory, and research related to group processes, decision-making, and leadership in a variety of settings. Awareness and understanding of self in group contexts. Includes skills practice and development related to group membership and facilitation.
Note: ED-D 414 is a prerequisite course for the master's program in Counselling Psychology and must be completed within seven years of the date of application.

ED-D 415 Units: 3.0 Hours: 3-0-0
Level B Assessment and Instructional Programming
A consideration of assessment strategies and instructional methods and materials appropriate for the identification and intervention of learning difficulties. Topics include: the application of knowledge and ethics in the assessment of students with special needs; the administration, scoring, and interpretation of norm-referenced, criterion-referenced, and curriculum-based assessment to Level B; and the synthesis and interpretation of assessment findings for individualized education program (IEP) planning and evaluation.
Note: May be taken more than once for credit with permission of the Department if first completed prior to September 2009.
Prerequisite(s):
• ED-D 402 and ED-D 405, and
• admission to Professional Specialization Certificate in Special Education program.

ED-D 416 Units: 1.5 Hours: 3-0-0
Effective Interpersonal Communication Skills in Special Education
Basic interpersonal communication skills for active listening and empathetic communication emphasizing the development and maintenance of positive, helping relationships in professional settings. The content and skills focus on professionals working in inclusive and special education.
Note: Credit will be granted for only one of ED-D 416, ED-D 417 (if taken in January-April 2012).
Prerequisite(s): Admission to Diploma program in Special Education.

ED-D 417 Units: 1.5 Hours: 3-0-0
Skills for Effective Interpersonal Communication
Basic interpersonal communication skills for active listening, empathic understanding and communication of empathy. Includes analysis of effective interpersonal skills and skill building laboratory experience. The content and skills are transferable to a variety of settings, including counselling, education, human development, management, healthcare, psychology and recreation.
Note: ED-D 417 is a prerequisite course for the Master's program in Counselling Psychology and must be completed within seven years of the date of application.
Recommendation(s): ED-D 316 strongly recommended prior to ED-D 417.

ED-D 418 Units: 1.5 Hours: 3-0-0
Formerly: part of ED-D 417
Introduction to Theories of Counselling
Major theoretical approaches to counselling. Includes philosophical assumptions, key concepts, the process of change and interventions. Designed for those interested in counselling, psychotherapy, and helping relationships.
Note: ED-D 418 is a prerequisite course for the master's program in Counselling Psychology and must be completed within seven years of the date of application.

ED-D 419 Units: 1.5 Hours: 3-0-0
Introduction to Indigenous Approaches to Helping and Healing
Introduction to Indigenous worldviews and perspectives related to helping and healing practices. Awareness of the history and the impact of oppression in Canadian Indigenous contexts. Exploration of the relevance of both Western and Indigenous paradigms in the helping profession. Students will reflect on their own beliefs and learn to enhance the cultural relevance and sensitivity of their own helping approaches.
Note: Credit will be granted for only one of ED-D 419, ED-D 487 (if taken in the same topic).

ED-D 420 Units: 1.5 Hours: 3-0-0
Formerly: EDUC 420
Learning Support: Context and Key Issues
An introductory overview of key issues in learning support. Topics will include the organization, administration and management of classrooms in which students with special educational needs are found; the referral process; teacher responsibilities for students with special educational needs in the context of regular classrooms; and the utility and limitations of various assessment techniques.
Note: Credit will be granted for only one of ED-D 420, EDUC 420.
Prerequisite(s): Registration in a program in Teacher Education.

ED-D 421 Units: 1.5 Hours: 3-0-0
Formerly: EDUC 421
Recognition and Assessment of Learning Needs
Topics will include administering and interpreting teacher directed/prepared assessment techniques and commercial tests; reading and writing reports; and developing various individualized educational plans.
Note: Credit will be granted for only one of ED-D 421, EDUC 421.
Prerequisite(s): ED-D 420 or EDUC 420.

ED-D 422 Units: 1.5 Hours: 3-0-0
Formerly: EDUC 423
Management and Adaptation of the Classroom Environment
Strategies for adapting the classroom environment to support children with a range of special needs. Topics will include ADHD/FAS, abuse and neglect; medication/treatments; social competences and emotional adjustment; issues related to low/high incidence classifications; collaboration between professionals/paraprofessionals.
Note: Credit will be granted for only one of ED-D 422, EDUC 423.
Prerequisite(s): ED-D 420 or EDUC 420.

ED-D 424 Units: 1.5 Hours: 3-0-0
Teaching Students with Developmental Disabilities
An introduction to designing, implementing, and monitoring programs within inclusive settings for children and adolescents with developmental disabilities such as intellectual disabilities, autism, cerebral palsy, and fetal alcohol spectrum disorder.
Prerequisite(s): Admission to Diploma program in Special Education.

ED-D 425 Units: 1.5 Hours: 3-0-0
Assistive Technology in the Inclusive Classroom
The application of a range of assistive technologies and instructional strategies to support active student participation in inclusive classrooms. Study and application of functional assessment processes, team principles and a range of technologies and resources.
Note: May be taken more than once for credit with permission of the Department if first completed prior to September 2011.
Prerequisite(s): Admission to Diploma program in Special Education.
**ED-D 426 - ED-P 499**

**ED-D 426**  
Units: 1.5  
Hours: 3-0-0  
**Differentiating Instruction in the Inclusive Classroom**  
The theoretical foundations and practical applications of Differentiated Instruction (DI), an approach to meet the needs of all students in today's diverse classrooms. Students will learn strategies for determining what to teach (Content), how to teach (Process), and the evaluation of student learning (Product).  
Prerequisite(s): Admission to Diploma program in Special Education.

**ED-D 427**  
Units: 1.5  
Hours: 3-0-0  
**Collaboration and Consultation in Special Education**  
A theoretical and practical framework for developing the knowledge and skill in school-based consultation and collaboration that is required to meet the diverse needs of students.  
**Note:** Credit will be granted for only one of ED-D 427, ED-D 499 (if taken in the same topic).  
Prerequisite(s): Admission to Professional Specialization Certificate in Special Education program.

**ED-D 428**  
Units: 1.5  
Hours: 3-0-0  
**Teaching Students with Specific Learning Disorders**  
An introduction to the nature, scope and recognition of specific learning disorders in the inclusive classroom. Research-informed methods for skills-based assessment and instructional programming targeting reading, mathematics and written language are emphasized.  
Prerequisite(s): Admission to the Diploma in Special Education program.

**ED-D 445**  
Units: 1.5  
Hours: 3-0-0  
**Successful University to Career Transition**  
Designed to introduce students to the literature on career development, transition and success, as a foundation for building personalized strategies for making the transition between university and career. Students will apply concepts from research, theory and practice on career building, career transition and career counselling to improve their chances of success upon leaving university.  
Recommended(s): Recommended for students nearing the end of their degree program.

**ED-D 480**  
Units: 1.5 or 3.0  
Hours: 3-0-0  
**Contemporary Topics in Education - Educational Psychology and Leadership Studies**  
Current topics and developments in education, with particular consideration of their relevance to the schools of British Columbia. Taught from an interdisciplinary approach.  
**Note:** May be taken more than once for credit in different topics with permission of the department.

**ED-D 487**  
Units: 1.5 or 3.0  
Hours: 3-0-0  
**Special Topics in Education - Educational Psychology and Leadership Studies**  
Topics of current interest or concern to groups of students.  
**Note:** May be taken more than once for credit in different topics with permission of the department.

**ED-D 494**  
Units: 1.5  
**Directed Studies**  
Research projects, directed reading, or additional coursework in a specified area.  
**Notes:**  
- Pro Forma required.  
- Approval must be obtained from the Department as well as the instructor supervising the Directed Studies Course.  
- Permission will not normally be given for more than 3 units of directed studies.  
Prerequisite(s): Permission of the department.

**ED-P 251**  
Units: 1.5  
**Three-Week Practicum (Elementary Education)**  
Course offered by the Faculty of Education are also found under the following course codes: AE, ED-D, ED-P, EDCI, EPHE, IA, IED, IE, ME.

**ED-P 301**  
Units: 1.5  
**Internship/Community Experience**  
Practical work in the form of a minimum of 40 hours of volunteer experience in a community organization is the focus of this course. These experiences will be self-selected and arranged by the student and will take place in informal and non-formal environments to match the student’s future intentions.  
Prerequisite(s): EDCI 335 and EDUC 100.  
Grading: INP, COM, N/X, F/X.

**ED-P 351**  
Units: 1.5  
**Six-Week Practicum (Elementary Education)**  
**Notes:**  
- Credit will be granted for only one of ED-P 351, ED-P 300A, ED-P 300B.  
- Normally takes place in the spring term.  
Prerequisite(s): One of ED-P 251, ED-P 350, EDCI 330.  
Grading: INP, COM, N/X, F/X.

**ED-P 361**  
Units: 1.5  
**Six-Week Practicum (Elementary or Middle Years Post Degree)**  
**Notes:**  
- Credit will be granted for only one of ED-P 361, ED-P 300A, ED-P 300B.  
- Normally takes place in the spring term.  
Prerequisite(s): ED-P 360 or EDCI 360.  
Grading: INP, COM, N/X, F/X.

**ED-P 451**  
Units: 3.0  
**Nine-Week Practicum (Elementary Education)**  
**Notes:**  
- Credit will be granted for only one of ED-P 451, ED-P 400A, ED-P 400B, ED-P 400C, ED-P 400D.  
- Normally takes place in the spring term.  
Prerequisite(s): ED-P 351.  
Grading: INP, COM, N/X, F/X.

**ED-P 461**  
Units: 3.0  
**Nine-Week Elementary Practicum (Elementary or Middle Years Post Degree)**  
**Notes:**  
- Credit will be granted for only one of ED-P 461, ED-P 400A, ED-P 400B, ED-P 400C, ED-P 400D.  
- Normally takes place in the fall term.  
Prerequisite(s): ED-P 351.  
Grading: INP, COM, N/X, F/X.

**ED-P 496**  
Units: 0.5-1.5  
**Mentoring in Teaching**  
An exploration, analysis and application of supervisory and support models and techniques for mentoring pre-service and beginning teachers. This course is for certified teachers and includes school-based experiences.  
**Notes:**  
- Credit will be granted for only one of ED-P 496, EDUC 496.  
- Students who have a valid teaching certificate and 3 years experience may request permission to register in the course.  
Prerequisite(s): Permission of the faculty.

**ED-P 497**  
Units: 1.5 or 3.0  
**Professional Seminar or Practicum**  
A seminar or supervised practicum for persons wishing to update teaching skills and to gain or validate teaching certificates. Practicum only students will be on an individualized study/practice program.  
Prerequisite(s): Permission of the faculty.  
Grading: INP, COM, N/X, F/X.

**ED-P 498**  
Units: 1.5  
**Seminar and Two-Week Practicum for BEd (Secondary Curriculum)**  
A series of seminars to orient students to the culture of secondary schools. A required two week practicum follows final examinations in April.  
Prerequisite(s):  
- Minimum fourth-year standing in the Secondary Education program; or  
- permission of the department.  
Grading: INP, COM, N/X, F/X.

**ED-P 499**  
Units: 0.5-3.0  
**Professional Development Professional Studies**  
A variable content course directed at improving specific teacher and/or administrator competencies. Normally offered off campus.  
**Note:** Not more than 3 units of credit for any ED-P 499 courses may be approved as electives on an Education degree program.  
Prerequisite(s): Permission of the faculty.  
Grading: COM, N, F.
EDCI 306B Units: 1.5 Hours: 3-0-0
Music in the Elementary Classroom II
A continued development of the musical skills and concepts learned in 306A with a focus on music teaching and learning strategies for the intermediate grades. Work in ensemble settings using classroom instruments such as recorders, Orff instruments, guitars and ukuleles to arrange accompaniments, improvise and compose. Students plan units around selected topics.
Note: Credit will be granted for only one of EDCI 306B, EDCI 306, EDUC 306, ME 204, ME 206, ME 304.
Prerequisite(s):
• EDCI 306A, and
• admission to a program in Teacher Education.

EDCI 307A Units: 1.5 Hours: 3-0-0
Art in the Elementary or Middle Classroom I
An introduction to the place and practice of art in the elementary or middle school curriculum. Topics include a rationale for art education, theory about developmental stages, sensitivity to individual and cultural diversity, as well as lesson planning, assessment strategies, and integration of art with other core subjects. Develops students' own understandings, skills, and confidence in creating art and in building general knowledge about art.
Note: Credit will be granted for only one of EDCI 307A, EDCI 307, AE 103, AE 103A, AE 103B, AE 204, EDUC 307.
Prerequisite(s): Admission to a program in Teacher Education.

EDCI 307B Units: 1.5 Hours: 3-0-0
Art in the Elementary Classroom II
Advanced further concepts and methods of instruction that are appropriate for elementary students in classroom settings. Includes continued work in developing student competence and confidence in studio art and building general knowledge, both cultural and historical, and contemporary art and art practice.
Note: Credit will be granted for only one of EDCI 307B, EDCI 307, AE 103, AE 103A, AE 103B, AE 204, EDUC 307.
Prerequisite(s):
• EDCI 307A, and
• admission to a program in Teacher Education.

EDCI 308 Units: 1.5 Hours: 1.5-1.5-0
Formerly: ME 308
Studio Piano Class II
Continuation of development of piano keyboard skills: technique, harmonic analysis, sight reading, transposition, accompany patterns. For those with little or no piano background. Students with basic piano skills should register in EDCI 308.

EDCI 309A Units: 1.5 Hours: 3-0-0
Drama Education as a Medium for Learning I
An overview of the theory and practice of drama in education based on the current curriculum in elementary and middle schools. Through a workshop format, students explore the principles and methods of instruction for initial classroom implementation.
Note: Credit will be granted for only one of EDCI 309A, EDCI 309, DE 204, DE 304, EDUC 305.
Prerequisite(s): Admission to a program in Teacher Education.

EDCI 309B Units: 1.5 Hours: 3-0-0
Drama Education as a Medium for Learning II
The integration of drama as a learning medium across the curriculum with a focus on language arts. An examination and progression of instructional strategies, broadening understanding of educational drama and its role in the development of multiple literacies.
Note: Credit will be granted for only one of EDCI 309B, EDCI 309, DE 204, DE 304, EDUC 305.
Prerequisite(s): Admission to a program in Teacher Education.

EDCI 310 Units: 1.5 Hours: 3-0-0
Learning to Listen to Music
What to listen for and how to listen to music of diverse styles and genres.
Note: Credit will be granted for only one of EDCI 310, ME 207 (if taken prior to December 2007), ME 310, MUS 115.
EDCI 311 - Units: 1.5 - Hours: 1.5-1.5-0
Formerly: ME 303A
Studio Guitar Class: I
Acquisition of basic skills in guitar playing and song accompaniment. Appropriate for students with little or no background in music theory.
Note: Credit will be granted for only one of EDCI 311, ME 303A.

EDCI 312 - Units: 1.5 - Hours: 1.5-1.5-0
Formerly: ME 303E
Studio Guitar Class: II
Acquisition of intermediate guitar skills such as chord transformation, key transposition, and barre chords. Understanding of theoretical concepts through guitar performance and basic accompaniment. Students are expected to have acquired the fundamentals of the guitar and have an understanding of the basics of music theory as applied to the guitar.
Note: Credit will be granted for only one of EDCI 312, ME 303E.

EDCI 330 - Units: 1.5 - Hours: 3-0-0
Formerly: ED-P 350
Elementary Field Experience Seminar II
Focus is on planning and implementing the curriculum, addressing the diversity found in classrooms and schools, and acquiring strategies for orchestrating the many demands and responsibilities inherent in the role of educators.
Note: Credit will be granted for only one of EDCI 330, ED-P 300A, ED-P 300B, ED-P 350.
Prerequisite(s): ED-P 251.
Grading: INP, COM, N, F.

EDCI 335 - Units: 1.5 - Hours: 3-0-0
Learning Design
An introduction to the practice of learning design and its application to interactive learning environments. Students will explore the principles of learning design, examine how they can maximize the effectiveness, efficiency and appeal of learning experiences for learners; and teach for understanding. Students will have the opportunity to plan, design, and develop an interactive learning environment using the latest technology tools specifically for teaching and learning.

EDCI 336 - Units: 1.5 - Hours: 3-0-0
Technology Innovation in Education
A foundation for using technology in the teaching and learning process and for the development of personal learning networks to support ongoing professional development. Students will explore how to design and develop learning experiences intended to improve learning, enrich professional practice, and provide positive models for students, colleagues, and the community.
Note: Credit will be granted for only one of EDCI 336, ED-B 359, ED-B 360, EDCI 406, EDUC 406.
Grading: INC, COM, N, F.

EDCI 337 - Units: 1.5 - Hours: 3-0-0
Interactive & Multimedia Learning
An introduction to the theory and application of multimedia learning in interactive learning environments. Best practices for creating rich educational experiences.
Note: Credit will be granted for only one of EDCI 337, ED-B 360.

EDCI 338 - Units: 1.5 - Hours: 3-0-0
Social Media and Personalized Learning
Examines the history and impact of mass and social media on education and the continuing changes associated with the personalized learning movement. Learners will utilize blogging and micro-blogging and alternative models of learning will be discussed and practiced.
Note: Credit will be granted for only one of EDCI 338, ED-B 362.

EDCI 339 - Units: 1.5 - Hours: 3-0-0
Distributed and Open Learning
This course provides learners with an opportunity to gain direct experience with current technologies that enable various forms of online and mobile learning, including social media tools, live capture and streaming. This course will also look critically at access to learning in the 21st century and introduce students to the concept of open learning and the development of personalized learning networks.
Note: Credit will be granted for only one of EDCI 339, ED-B 362.

EDCI 340 - Units: 1.5 - Hours: 3-0-0
Media Activism, Social Justice, and Educational Change
Explores the power and possibility of using media and communication technologies for substantive societal change. Introduces students to current and possible future uses of mainstream and alternative media to challenge existing power structures, to assist in representing marginalized and underrepresented groups, and to link communities of interest in aid of the attainment of social, political, economic, environmental and cultural justice through educational change.

EDCI 347 - Units: 1.5 - Hours: 3-0-0
Children's and Young Adult Literature
The study of a selection of Canadian and international children's and young adult literature drawn from various genres, including realistic fiction, fantasy, traditional literature, poetry and nonfiction. Explores how various literary theories influence the interpretation and analysis of children's and young adult literature.
Note: Credit will be granted for only one of EDCI 347, EDCI 347A, ED-B 341A, ENGL 402.
Prerequisite(s): 3 units of ENGL courses.

EDCI 352 - Units: 1.5 - Hours: 3-0-0
Multiliteracies Curriculum
Prepares prospective secondary school teachers to develop understandings and approaches to integrating literacy processes and products into the subject disciplines. Examines multiple literacies and contemporary understandings of texts as they apply to learning across the curriculum.
Note: Credit will be granted for only one of EDCI 352, EDCI 343C, ED-B 344.
Corequisite(s): Professional Year Admission Requirements satisfied.

EDCI 355 - Units: 1.5 - Hours: 3-0-0
Formerly: EDCI 353A
Literature for Young Adults
A survey of young adult literature with attention to the adolescent response, a critical examination of the literature and the stimulation of reading.
Note: Credit will be granted for only one of EDCI 355, EDCI 353, EDCI 353A, ED-B 351, ED-B 371, ED-B 471.
Prerequisite(s): Minimum third-year standing.

EDCI 356 - Units: 1.5 - Hours: 3-0-0
Formerly: EDCI 353B
Expanding Notions of Text
A critical examination of alternative texts (such as film, video, television, newspapers, magazines, websites) with attention to the young adult’s response to text as cultural form.
Note: Credit will be granted for only one of EDCI 356, EDCI 353, EDCI 353B, ED-B 351, ED-B 371, ED-B 471.
Prerequisite(s): Minimum third-year standing.

EDCI 360 - Units: 1.5 - Hours: 3-0-0
Formerly: ED-P 360
Field Experience Seminar (Elementary or Middle Years Post Degree)
Focus is on planning and implementing the curriculum, addressing the diversity found in classrooms and schools, and acquiring strategies for orchestrating the many demands and responsibilities inherent in the role of educators.
Note: Credit will be granted for only one of EDCI 360, ED-P 300A, ED-P 300B, ED-P 360.
Prerequisite(s): Admission to Post Degree Professional program in Elementary or Middle Years Education.
Grading: INP, COM, N, F.

EDCI 402 - Units: 1.5 - Hours: 3-0-0
Reading: Instructional Principles and Strategies
Theoretical perspectives on reading, the developmental nature of reading, and complex issues, including societal and cultural factors that influence reading development. Topics of study include concepts and instructional strategies associated with cueing systems, word identification, comprehension and vocabulary. Ongoing assessment strategies and organizational structures for reading programs will also be considered.
Note: Credit will be granted for only one of EDCI 402, ED-B 748, EDUC 402.
Prerequisite(s): EDCI 302 or EDUC 302.

EDCI 403 - Units: 1.5 - Hours: 3-0-0
Curriculum and Instruction in Elementary or Middle School Science
A study of the curriculum organization, instructional strategies, and assessment practices in elementary or middle school science. Includes consideration of the nature of science, the interactions of science, technology, society and environment, and the content, processes and attitudes prescribed in the provincial curriculum.
Note: Credit will be granted for only one of EDCI 403, ED-E 745, EDUC 403.
Prerequisite(s): Admission to a program in Teacher Education.
EDCI 404  Units: 1.5  Hours: 3-0-0  
Curriculum and Instruction in Elementary or Middle School Social Studies
A study of the curriculum organization and techniques of instruction in elementary or middle school social studies. Examples are drawn from a variety of content areas: history, geography, anthropology, sociology, political science, and/or economics, with emphasis on participatory citizenship, culture and traditions in a pluralistic society.
Note: Credit will be granted for only one of EDCI 404, ED-E 746, EDUC 404.
Prerequisite(s): Admission to a program in Teacher Education.

EDCI 405  Units: 1.5  Hours: 3-0-0  
Curriculum and Instruction in Elementary or Middle School Mathematics
General and specific goals of mathematics teaching and learning; examination of all components of the prescribed provincial mathematics curriculum, teaching strategies, learning activities; classroom settings; and assessment techniques.
Note: Credit will be granted for only one of EDCI 405, ED-E 743, EDUC 405.
Prerequisite(s): Admission to a program in Teacher Education.

EDCI 409  Units: 1.5  Hours: 3-0-0  
Fostering and Assessing Mathematical Understanding
Further examination of recent issues and trends related to fostering and assessing the major components of mathematical literacy, mathematical thinking and numeracy.
Note: Credit will be granted for only one of EDCI 409, ED-E 743, EDUC 409.
Prerequisite(s): EDCI 405 or EDUC 405.

EDCI 410  Units: 1.5  Hours: 3-0-0  
Literacy in the Digital Age
An exploration of how new digital technologies have changed reading and writing for adolescents, and how these changing practices influence language and literacy teaching and learning.

EDCI 422  Units: 1.5  
Curriculum and Program Design in Early Childhood Education
Practical strategies for the development of early childhood curricula and the planning and administration of programs for preschool, daycare and kindergarten. Examines current topics such as integration, multiculturalism, family involvement, and program evaluation.
Note: Credit will be granted for only one of EDCI 422, ED-B 441.

EDCI 424  Units: 1.5  Hours: 3-0-0  
Formerly: EDCI 424A
Adaptation of Curriculum and Instructional Strategies (Literacy)
Introduction to in-class assessment of students’ literacy learning as well as the principles and strategies to effectively respond to elementary students of wide-ranging abilities and diverse backgrounds. Students will learn how to make appropriate changes and choices regarding: literacy materials, literacy learning processes and strategies; and varied representations of literacy learning.
Note: Credit will be granted for only one of EDCI 424, EDCI 424A, EDUC 422, EDUC 422A.
Prerequisite(s): EDCI 420.

EDCI 428  Units: 1.5  Hours: 3-0-0  
Formerly: EDCI 428B
Adaptation of Curriculum and Instructional Strategies (Mathematical)
Development and use of instructional methods and materials appropriate for children with learning difficulties in mathematics. Ways of adapting curricula and instruction in other content areas and technological support for children with special education needs will also be considered.
Note: Credit will be granted for only one of EDCI 428, EDCI 428B, EDUC 422, EDUC 422B.
Prerequisite(s): EDCI 420.

EDCI 431  Units: 1.5  Hours: 3-0-0  
Philosophical Foundations of Education
The origins and meaning of social and philosophical ideas and how these ideas influence the lives of children and teachers in schools. The major philosophical systems and ideologies that have shaped and continue to shape educational thought and practice are the focus of this course.
Note: Credit will be granted for only one of EDCI 431, ED-B 430.

EDCI 432  Units: 1.5  Hours: 3-0-0  
Historical Foundations of Education
The historical foundations of contemporary Canadian schooling and the forces that regulate educational change, reform and the nature of the teacher’s work.
Note: Credit will be granted for only one of EDCI 432, ED-B 432.

EDCI 433  Units: 1.5  Hours: 3-0-0  
Anthropology and Education
Theory and perspectives from cultural anthropology relevant to the processes of education and operations of schools.
Note: Credit will be granted for only one of EDCI 433, ED-B 423.

EDCI 434  Units: 1.5  Hours: 3-0-0  
Sociological Foundations of Education
The impact of sociological variables - such as poverty, ethnicity, culture, gender, and social diversity on classroom teaching and life in contemporary Canadian schools.
Note: Credit will be granted for only one of EDCI 434, ED-B 427.

EDCI 441  Units: 1.5  Hours: 3-0-0  
Formerly: Part of EDCI 446
Supporting Learners Experiencing Difficulties with Literacy I
Focus on assessment and instructional issues, practices and strategies for students who experience difficulties with reading and writing. A practical component involves administering and interpreting an informal reading assessment to a student who struggles with literacy, and planning an appropriate instructional intervention.
Note: Credit will be granted for only one of EDCI 441, EDCI 446, ED-B 442.
Prerequisite(s):
• EDI 402; and
• admission to an Education program; or
• permission of the faculty.

EDCI 442  Units: 1.5  Hours: 3-0-0  
Formerly: Part of EDCI 446
Supporting Learners Experiencing Difficulties with Literacy II
Continues the exploration of assessment and instructional practices for elementary, middle and high school students who experience difficulties with reading and writing. A practical component involves creating and delivering a series of intervention lessons to a student who experiences challenges with literacy learning.
Note: Credit will be granted for only one of EDCI 442, EDCI 446, ED-B 442.
Prerequisite(s):
• EDCI 441; or
• permission of the faculty.

EDCI 447  Units: 1.5  Hours: 3-0-0  
Principles of Teaching English Language Learning
A survey of principles and theories for, and the teaching of English to second language learners. The examination of curriculum and methodology for use with English language learners in the elementary and secondary schools.
Note: Credit will be granted for only one of EDCI 447, EDCI 457, ED-B 490, ED-B 491.
Prerequisite(s): Admission to an Education program or admission to a Diploma or major program in Applied Linguistics.

EDCI 448  Units: 1.5  
Organization and Procedures for Instruction of English to Second Language Learners
The examination of current models for the organization and instruction of ESL students at the elementary and secondary levels. The integration of language and content instruction within the regular classroom is emphasized.
Note: Credit will be granted for only one of EDCI 448, ED-B 490, ED-B 492.
Prerequisite(s):
• Admission to a program in Education or admission to Diploma or Major program in Applied Linguistics; or
• permission of the faculty.
EDCI 451 Units: 1.5  Hours: 3-0-0
Community and Culture
Designed to provide students with an appreciation of the utility of culture as a framework for understanding teaching and learning. Students will explore the roles and impacts they have as teachers and community members in the transmission and transformation of culture. Investigates the implications and challenges of teaching in a multicultural society.
Note: Credit will be granted for only one of EDCI 451, EDUC 437.

EDCI 452 Units: 1.5  Hours: 3-0-0
Cultural Studies in Education
Focuses on the school both as a community of learners and as a part of a larger community in a changing world. Topics of study will include different conceptions of community as they relate to education and learning, relations of power in school and community settings, gender roles, ethnicity, spirituality, traditions of conflict resolution, human rights, and the effects of global systems on local communities.
Note: Credit will be granted for only one of EDCI 452, EDUC 432.

EDCI 453 Units: 1.5  Hours: 3-0-0
Ecology for Teachers
Labs, field trips and inquiry activities will explore the major ecosystems in British Columbia as a focus for instruction. Topics include the natural history of plants and animals, the ecology of communities and ecosystems, and human impacts emphasizing the Pacific Northwest. Intended to provide teachers with information and skills to explore the outdoor environment as a focus for instruction: to plan and organize field trips, teach nature appreciation, inquiry techniques, ecology concepts and stewardship.
Note: Credit will be granted for only one of EDCI 453, EDUC 433.

EDCI 454 Units: 1.5  Hours: 3-0-0
Environmental Education
This multidisciplinary course is designed to familiarize the educator with a range of issues and teaching methods related to environmental education. Topics include goals for environmental and outdoor education; environmental ethics; current issues and trends; multicultural perspectives towards the land; local, national and global issues, teaching strategies for understanding and resolving environmental issues; program and unit planning. Selected field trips to locations emphasizing current environmental issues.
Note: Credit will be granted for only one of EDCI 454, EDUC 434.

EDCI 455 Units: 1.5  Hours: 3-0-0
The Evolution of Educational Ideas: Philosophy, History and the Classroom
The impact of educational philosophy and the history of education on the culture of the schools. Topics will include the evolution and implications of educational ideas, and the changing role of the school in society.
Note: Credit will be granted for only one of EDCI 455, EDUC 436.

EDCI 456 Units: 1.5  Hours: 3-0-0
Community Development Project
Designed to provide students an opportunity to develop and implement a school-based community development project. Working in groups, with a faculty mentor, students will design projects that reflect the principles and themes of community action and positive social change. Sample projects could include environmental protection and restoration initiatives, community based violence prevention programs, home- and school-based media literacy campaigns or multicultural and cultural sensitivity programs.
Note: Credit will be granted for only one of EDCI 456, EDUC 437.
Grading: ANC, COM, N, F.

EDCI 457 Units: 1.5  Hours: 3-0-0
English Language Learning
A survey of curriculum and instruction designed to develop beginning competence for teaching English as a second language. There are three main themes: language instruction techniques, evaluation of the language and educational needs of English language learners, and developing sensitivity for the prior educational and cultural experiences of English language learners.
Note: Credit will be granted for only one of EDCI 457, EDCI 447, EDUC 438, ED-B 491.

EDCI 461 Units: 1.5  Hours: 3-0-0
Responding to Literature Through Writing
An examination of instructional practices that facilitate engagement with literature through writing in selected genres. Focuses on strategies designed to foster divergent, sustained engagement and interpretation of literature.
Note: Credit will be granted for only one of EDCI 461, EDCI 441.

EDCI 463 Units: 1.5  Hours: 3-0-0
Visual Thinking
Visual artists use a variety of strategies to develop original imagery, find creative solutions to problems, and express ideas that cannot be conveyed in any other medium. Students will explore the methods artists use to create and communicate. Though they arise from art, the methods can be applied to many other areas of learning. Developmentally appropriate classroom activities and teaching methods are recommended as ways of engaging elementary students in visual thinking.
Note: Credit will be granted for only one of EDCI 463, EDUC 443.

EDCI 464 Units: 1.5  Hours: 3-0-0
Learning Through Drama
Explores the role of drama to enrich language/literacy education. Emphasis will be placed on children's literature and the exploration of a variety of dramatic forms that promote increased understanding within the discipline of drama as well as serving as methodology across the curriculum.
Note: Credit will be granted for only one of EDCI 464, EDUC 444.

EDCI 466 Units: 1.5  Hours: 3-0-0
Scientific and Technological Literacy
Science as inquiry and technology as design have been significant influences on North American society. Examines the nature of science and technology, explores curricula, instruction and assessment that encourage students to acquire abilities and habits of mind to construct an understanding of science and technology, focuses on big ideas in science technology, and the communications to inform and persuade others to take action on science and technology issues.
Note: Credit will be granted for only one of EDCI 466, EDUC 447.

EDCI 469 Units: 1.5  Hours: 2-2-0
Teaching Oral French
Theoretical and practical elements of teaching French as a second language for the general classroom teacher. Students will be introduced to recommended materials and methods of presentation and use of aids. The language of instruction will include both French and English.
Note: Credit will be granted for only one of EDCI 469, ED-B 391, EDUC 448.

EDCI 475 Units: 1.5  Hours: 3-0-0
Principles in Teaching French Immersion
The basic curricula and evaluation as required of the French Immersion program, and an understanding of the similarities and differences between teaching in immersion and the English program. Emphasizes how students develop literacy and numeracy in French Immersion while mastering the skills and concepts laid out in all subject areas as required by the BC curriculum. This course is taught in French.

EDCI 476 Units: 1.5  Hours: 3-0-0
Organization and Instruction in French Immersion
An examination of current models for the organization and instruction of French Immersion students at the elementary and secondary level. Participants will define and articulate those critical factors that ensure lessons and units of study will enable students to learn language as well as concepts/ skills. This course is taught in French.

EDCI 477 Units: 1.5  Hours: 3-0-0
Designs for Learning in French Immersion
Assessment and evaluation within the context of French Immersion's language and content methodology. Emphasis is on planning, analysis and evaluation. Canadian and International models of language learning and assessment will be examined. This course is taught in French.
Prerequisite(s): EDCI 476.

EDCI 487 Units: 1.5 or 3.0  Hours: 3-0-0
Special Topics in Education
Topics of current interest or concern to groups of students.
Note: May be taken more than once for credit in different topics; however, students in an education degree program require permission of the Teacher Education Advising Office to apply the credit towards their degree program.
**EDCI 490**  
Units: 1.5  
Formerly: ED-P 490  
Transformative Inquiry  
Focus on dialogic learning, teacher as researcher, and other ways of knowing to identify and explore personally meaningful topics within teaching practice. Individual reflection, collaborative processes, and mentoring sessions with instructor culminate in student facilitated inquiry conversations where the intricacies and overlapping issues of transformative pedagogy are considered and assimilated.  
**Note:** Credit will be granted for only one of EDCI 490, ED-P 490.  
**Prerequisite(s):** Admission to a program in Teacher Education.  
Grading: INP, COM, N, F.  

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**EDCI 494**  
Units: 1.5  
Directed Studies  
**Note:** May be taken more than once for credit in different topics to a maximum of 3 units with permission of the department.  

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**EDCI 495**  
Units: 1.5  
Directed Studies  
**Note:** May be taken more than once for credit in different topics to a maximum of 3 units with permission of the department.  

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**EDCI 496**  
Units: 1.5  
Hours: 3-0-0  
Professional Communication for Personal Success  
Focuses on the effective design and delivery of print, multimodal, and oral communications for successful engagement of professional and student audiences. Examines the relevance and persuasiveness of diverse print and digital-based communication formats in varied contemporary educational contexts through theory and practice.  

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**EDCI 499**  
Units: 0.5-3.0  
Professional Development - Curriculum and Instruction  
A variable content course directed at improving specific teacher and/or administrator competencies. Normally offered off campus.  
**Note:** Not more than 3 units of credit for any EDCI 499 courses may be approved as electives in an education degree program.  
**Prerequisite(s):** Permission of the faculty.  
Grading: COM, N, F.  

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**EDCI 706**  
Units: 1.5  
Hours: 3-0-0  
Curriculum and Instruction in Secondary School Art  
As the last formal stage in becoming an art teacher, this course prepares students for their practicum experience. It examines relationships between the practical and theoretical aspects of art education. Students will be introduced to various teaching methodologies appropriate for implementing the curriculum, teaching styles will be discussed and explored, and students will design lessons and develop learning activities around specific concepts.  
**Note:** Credit will be granted for only one of EDCI 706, ED-A 750.  
**Prerequisite(s):**  
- Admission to Professional Year or Post Degree Professional program; or  
- permission of the school.  

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**EDCI 716**  
Units: 1.5  
Hours: 3-0-0  
Curriculum and Instruction in Secondary School Theatre  
Designed to prepare theatre/drama education students for the teaching profession. Provides students with one of the many bridges connecting their university theatre and drama experiences to the world of the secondary school. The focus will be on the how, what, and why of classroom drama.  
**Note:** Credit will be granted for only one of EDCI 716, ED-A 767.  
**Prerequisite(s):**  
- Admission to Professional Year or Post Degree Professional program; or  
- permission of the school.  

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**EDCI 746**  
Units: 1.5  
Hours: 3-0-0  
Curriculum and Instruction in Secondary School French  
An opportunity to develop abilities in teaching and testing the language features (pronunciation, vocabulary, grammar, and cultural component) and the language skills (listening, speaking, reading, and writing) and to familiarize students with current French language teaching approaches through the study of representative materials and techniques. Emphasis will be placed on practical classroom techniques and the challenges particular to teaching French in the secondary school.  
**Note:** Credit will be granted for only one of EDCI 746, ED-B 754.  
**Prerequisite(s):**  
- Admission to Professional Year or Post Degree Professional program; or  
- permission of the school.  

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**EDCI 747**  
Units: 1.5  
Hours: 3-0-0  
Curriculum and Instruction in Secondary School English  
Prepares students to instruct and assess secondary English language arts. Explores a variety of teaching and assessment strategies, resources and current research into the challenges and possibilities of teaching English language arts.  
**Note:** Credit will be granted for only one of EDCI 747, ED-B 753.  
**Prerequisite(s):**  
- Admission to Professional Year or Post Degree Professional program; or  
- permission of the school.  

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**EDCI 748**  
Units: 1.5  
Hours: 3-0-0  
General Methods of Second Language Teaching  
An opportunity to develop abilities in teaching and testing the language features (pronunciation, vocabulary, grammar, and cultural component) and the language skills (listening, speaking, reading, and writing) and to familiarize students with current second language teaching approaches through the study of representative materials and techniques. Emphasis will be placed on practical classroom techniques and the challenges particular to teaching second languages.  
**Note:** Credit will be granted for only one of EDCI 749, ED-B 756.  
**Prerequisite(s):**  
- Admission to Professional Year or Post Degree Professional program; or  
- permission of the school.  

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**EDCI 757**  
Units: 1.5  
Hours: 3-0-0  
Curriculum and Instruction in Secondary School Mathematics  
Helps students develop the pedagogical content knowledge needed to teach secondary school mathematics. This includes knowledge about: the goals, content and sequence of the 8-12 mathematics curriculum, how students learn mathematics, how to plan instructional activities, lessons and units that are meaningful and mathematically correct, teaching strategies that instill in all students enthusiasm and satisfaction in learning and using mathematics, and how to develop and apply appropriate assessment and evaluation techniques. Explores how to establish classroom environments that facilitate problem solving, conceptual understanding, autonomy and issues related to equity and multi-culturalism in teaching mathematics.  
**Note:** Credit will be granted for only one of EDCI 757, ED-E 761.  
**Prerequisite(s):**  
- Admission to Professional Year or Post Degree Professional program; or  
- permission of the school.  

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**EDCI 761**  
Units: 1.5  
Hours: 3-0-0  
Curriculum and Instruction in Secondary School Music  
Designed to provide students with practical strategies that will inform and enhance professional practice in the secondary music classroom. Through teaching opportunities, presentations, readings, and discussion, this course will develop personal knowledge related to pedagogical issues in music, curriculum design and implementation, program management, assessment strategies, and professional portfolio building.  
**Note:** Credit will be granted for only one of EDCI 761, ED-A 762.  
**Prerequisite(s):**  
- Admission to Professional Year or Post Degree Professional program; or  
- permission of the school.  

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**EDCI 767**  
Units: 1.5  
Hours: 3-0-0  
Curriculum and Instruction in Secondary School Science  
A study of the curriculum organization, instructional strategies, and assessment practices in secondary sciences. Includes consideration of the nature of science, the interactions of science, technology, society and environment, the development of science literacy through constructivist approaches to teaching, and selected current trends and issues in science education such as meeting the needs of diverse students and the use of technology in the science classroom.  
**Notes:**  
- Credit will be granted for only one of EDCI 767, ED-E 769.  
- Students with teaching areas in biology, chemistry, physics, or general will enrol in this course.  
**Prerequisite(s):**  
- Admission to Professional Year or Post Degree Professional program; or  
- permission of the school.
EDCI 773 - ENGL 201

EDCI 773  Units: 1.5  Hours: 3-0-0
Curriculum and Instruction in Secondary School Social Sciences
Explores the area of Social Studies as a multidisciplinary subject that draws from the social sciences and humanities to study human interaction with natural and social environments. While there will be a theoretical component to the course, the learning of best practices in social studies education will dominate.
Note: Credit will be granted for only one of EDCI 773, ED-E 757.
Prerequisite(s):
• Admission to Professional Year or Post Degree Professional program; or
• permission of the school.

EDCI 780  Units: 1.5  Hours: 3-0-0
Secondary Field Experience Seminar
A series of seminars providing assistance in planning for practicum, discussion of topics of common concern for student teachers, and current issues related to instruction.
Note: Credit will be granted for only one of EDCI 780, ED-P 780.
Grading: INP, COM, N, F.

EDCI 787  Units: 1.5  Hours: 3-0-0
Cross-curricular Inquiry Strategies
Inquiry-focused, project-based learning strategies applicable across a range of subject areas, and adaptable to learners’ needs, interests, and competencies, will be presented, experienced and critically examined. Grouping structures that facilitate collaborative investigations and interactions, and multi-format presentations, will be featured.

EDCI 797  Units: 1.5  Hours: 3-0-0
Curriculum and Instruction in Secondary School Information and Communication Technology
A focus on the current curriculum, the development of pedagogical content knowledge, lessons and units, and the design and maintenance of technology-based learning environments. Topics may include security and safety in a networked world; development of design, reasoning, problem solving and algorithmic thinking skills; strategies for dealing with the diversity of abilities, understanding the role of anxiety and motivation in technology instruction, approaches to assessment and evaluation unique to the teaching of computer studies, and the teachers’ role in school technology leadership.
Prerequisite(s):
• Admission to Professional Year or Post Degree Professional program; or
• permission of the school.

EDUC 100  Units: 1.5  Hours: 3-0-0
Introduction to Education
A broad understanding of education, formal and informal, through an exploration of what education is and how it is articulated. Participants will inquire about: the nature of knowledge/ knowing; the nature of learning/ learners; the varied roles of educators (e.g. teacher, leader, researcher, mentor, community steward); and the educational challenges of work-life balance.

ENGL 101  Units: 1.5  Hours: 3-0-0
Fundamentals of Academic Literacy
Introduction to the reading and writing skills needed to meet the expectations of university-level academic study. Emphasis is on building proficiency in academic reading and writing through extensive practice. Suitable for students who need to strengthen their reading and writing skills before attempting a course that meets the Academic Writing Requirement.
Notes:
• Not open for credit to students registered in or with credit in any of ENGL 135, ENGL 146, ENGL 147, ENGR 110.
• Restricted to students who have not satisfied the Academic Writing Requirement.
• This course does not satisfy the Academic Writing Requirement.
• May not be counted toward lower-level requirements in Major, Honours, and General or Minor Literature Programs in English (unless taken in Sep-Dec 2012).

ENGL 135  Units: 1.5  Hours: 3-0-0
Academic Reading and Writing
Practice of skills needed for successful academic writing in a variety of subject areas. Analysis of rhetorical, stylistic, research and documentation techniques; development of these techniques through practical writing assignments. Balance of lectures and discussion.
Notes:
• Credit will be granted for only one of ENGL 135, ENGR 110.
• This course satisfies the Academic Writing Requirement.

ENGL 146  Units: 1.5  Hours: 3-0-0
Contemporary Literature (AWR)
Introduction to literary studies and academic writing focused on readings selected mainly from late 20th - and 21st-century literature. Readings may include fiction, poetry, drama and creative non-fiction. Develops skills for writing about literature and making research-based academic arguments in any discipline.
Notes:
• Credit will be granted for only one of ENGL 146, ENGL 116, ENGL 121, ENGL 122, ENGL 125.
• This course satisfies the Academic Writing Requirement.

ENGL 147  Units: 1.5  Hours: 2-1-0
Literary Traditions (AWR)
Lecture series devoted to four or five renowned literary works (chosen from novels, plays, long poems or poetry sequences, or creative non-fiction), combined with weekly small-class tutorial sections devoted to discussions and writing workshops. Lectures focused on aesthetic values as well as cultural and historical contexts of featured works. Assignments will develop skills for writing about literature and for making research-based academic arguments in any discipline.
Notes:
• Credit will be granted for only one of ENGL 147, ENGL 116, ENGL 121, ENGL 122, ENGL 145.
• This course satisfies the Academic Writing Requirement.
ENGL 202 Units: 1.5 Hours: 3-0-0
Introduction to Canadian Literature
A general introduction to Canadian literature, placing selected 19th- and 20th-century works within the contexts of an interdisciplinary study of Canada, important themes in the study of Canadian literature, using novels, poems, stories, songs, movies and essays. Topics may include the representation of historical events in literature, gender and nationality, the construction of individual identity in relation to community and nation, and First Nations and ethnic issues.

ENGL 203 Units: 1.5 Hours: 3-0-0
Introduction to American Literature
Poetry, fiction, and nonfiction literature of the United States from the 17th century to the present; issues such as the American Dream, gender and minority issues, or the nation’s understanding of itself as a continuing experiment in democracy. Readings may include works by R.W. Emerson, E.A. Poe, Walt Whitman, Emily Dickinson, Mark Twain, William Faulkner, Ezra Pound, Robert Frost, Langston Hughes, or Toni Morrison.

ENGL 207 Units: 1.5 Hours: 3-0-0
Introduction to Cultural Studies
An introduction to Cultural Studies as the theory and practice of reading "texts" from a variety of sources, including popular culture, literature and electronic media; themes such as definitions of culture and the roles it plays in forming personal and social identities. Readings may include literary texts as well as "texts" drawn from other disciplines and from popular and commercial sources such as magazines, posters, the Internet, video or audio presentations.

ENGL 208 Units: 1.5 Hours: 3-0-0
Introduction to Women’s Writing
A study of feminist issues in women’s literature; coverage of various periods, genres, and theoretical approaches. Readings may include authors such as Margery Kempe, Aphra Behn, Jane Austen, Emily Dickinson, Margaret Atwood, and Angela Carter.

ENGL 209 Units: 1.5 Hours: 3-0-0
Foundations of Literary Criticism
Introduces basic categories and problems of literary criticism, with an emphasis on the development of close reading skills and a vocabulary for writing confidently about literature. Offers training in stylistic and formal analysis and description, genre conventions and the use of textual evidence and contextual information (biography, authorial statements, formal conventions, socio-historical background) to develop and support interpretations.

ENGL 215 Units: 1.5 Hours: 3-0-0
The Writing of Expository Prose
This course pays attention to the styles and methods of nonfiction prose writing. It focuses on the development and critical analysis of the student’s own writing through numerous and extensive written assignments and through the study of the techniques employed by other writers. Open to all students, but of special relevance to those going into the teaching profession.

ENGL 225 Units: 1.5 Hours: 3-0-0
Technical Communications: Written and Verbal
Intended to assist students who plan careers in business, government, public service and research institutions. Designed to improve written and oral communication skills in a work environment. Its practical basis, which requires the preparation of business letters, internal memoranda and reports, is supplemented by a theoretical outline of basic communication within an organizational structure. Offers experience of both individual and group problem-solving.

ENGL 230 Units: 1.5 Hours: 3-0-0
Literature and Culture I
A variable content course with topics falling under three general rubrics: literature and other media; popular literary genres; literature and other cultural practices.

ENGL 250 Units: 1.5 Hours: 3-0-0
The Bible as Literature
Surveys basic stories and books in the Old and New Testaments (including Genesis, Exodus, 1 and 2 Kings, Job, Song of Songs, Psalms, Isaiah, select minor prophets, the Gospels, Acts, select Pauline epistles, Hebrews and Revelations). Focus on the intrinsic literary features of the biblical books themselves. Aims to familiarize students with important biblical stories, genres, and references in literature and religious discourse.

ENGL 260 Units: 1.5 Hours: 3-0-0
Also: RS 260
Formerly: part of ENGL 409
The Bible as Literature
Surveys basic stories and books in the Old and New Testaments (including Genesis, Exodus, 1 and 2 Kings, Job, Song of Songs, Psalms, Isaiah, select minor prophets, the Gospels, Acts, select Pauline epistles, Hebrews and Revelations). Focus on the intrinsic literary features of the biblical books themselves. Aims to familiarize students with important biblical stories, genres, and references in literature and religious discourse.

ENGL 261 Units: 1.5 Hours: 3-0-0
Literature and Social Conflict
A survey course focused on literary representations of social conflict, emphasizing the capacity of literature to communicate both the historical and the timeless.
ENGL 303 - ENGL 353

ENGL 303  Units: 1.5  Hours: 3-0-0
Copy Editing
Introduction to the principal tasks of copy editing non-fiction print and electronic manuscripts to ensure they are correct, consistent, coherent and concise. Topics include the copyeditor’s role, spelling, punctuation, editorial style features, usage and writing style. Practice in the skills of the professional copy editor, including using manual editing marks, copy editing manuscripts drawn from a variety of non-fiction sources and preparing an editorial style sheet.

ENGL 306  Units: 1.5  Hours: 3-0-0
Technical Communication
Communicating scientific and technical information to subject matter experts, managers, technicians and non-specialists using print and digital media. Technical reports, manuals, user guides.

ENGL 309  Units: 1.5  Hours: 3-0-0
Visual Rhetoric for Professional Writers
Introduction to visual rhetoric as applied to the design of documents. Covers the fundamental concepts and practices of visual design in professional communications for both digital and print media. Using MS-Word and the Adobe Creative Suite, students will experiment with text styles and document structure, HTML and CSS, typography, composition, colour and digital image editing in support of effective communication.

ENGL 310  Units: 3.0  Hours: 3-0-0
Practical Criticism
A seminar designed to extend awareness of how style and form contribute to meaning in literary works; poetic, narrative and dramatic techniques; representative theoretical approaches and their application; the interdependency of literary technique and critical interpretation. Prospective Honours students are strongly advised to take this course in their second year. Students will be allowed to select this course only if they have the approval of the Honours Adviser.

ENGL 311  Units: 1.5  Hours: 3-0-0
Literature and Culture II
A variable content course with topics falling under three general rubrics: literature and other media; popular literary genres; literature and other cultural practices.

ENGL 312  Units: 1.5  Hours: 3-0-0
Medieval British Literature in Translation
An introduction to the literatures of medieval Britain to c. 1500, including English, Anglo-Latin, Anglo-Norman, Celtic or Icelandic works. Major genres may include lyric, epic, history, romance and drama.

ENGL 313  Units: 1.5  Hours: 3-0-0
Introduction to Old Icelandic
An introduction to the Old Icelandic language and to the poems and stories, the Eddas and the Sagas, that it preserves.

ENGL 314  Units: 1.5  Hours: 3-0-0
Introduction to Old English
An introduction to the language, culture, and literature of Anglo-Saxon England, including the study of prose texts and poetry.

ENGL 315  Units: 1.5  Hours: 3-0-0
Old English Literature
A study of Beowulf and other Old English texts.

ENGL 316  Units: 1.5  Hours: 3-0-0
Early Middle English Literature
An introduction to English language, culture and literature from the 11th to the 13th century. Emphasis on post-Conquest literary politics and textual production.

ENGL 317  Units: 1.5  Hours: 3-0-0
Later Middle English Literature
An introduction to English language, culture and literature in the 14th and 15th centuries. Emphasis on language politics, rhetorical culture, ideas of authorship and religious reform.

ENGL 318  Units: 1.5  Hours: 3-0-0
Chaucer: Canterbury Tales
A study of Chaucer’s Canterbury Tales.

ENGL 319  Units: 1.5  Hours: 3-0-0
Chaucer: Troilus and Minor Works
An introduction to the important works of Chaucer outside the Canterbury Tales, primarily Troilus and Criseyde, and a selection from his dream visions and lyrics.

ENGL 320  Units: 1.5  Hours: 3-0-0
Alliterative Traditions
An introduction to and selective study of works in alliterative verse and prose between the late Anglo-Saxon period and the late 15th century. May include Piers Plowman, Sir Gawain and the Green Knight, Pearl, The Alliterative Morte Arthur, and Scottish alliterative poems.

ENGL 321  Units: 1.5  Hours: 3-0-0
Medieval and Renaissance Scottish Literature
An introduction to language, culture and literature of Scotland from the 14th to the early 17th century.

ENGL 322  Units: 1.5  Hours: 3-0-0
Studies in Medieval English Literature
A study of major literary works and genres of the medieval period (excluding Chaucer). Centres on specific genres (romance, chronicle, drama, lyric, etc.), at the discretion of the instructor, with annual advertisement.

Notes:
- May be taken more than once for credit in different topics to a maximum of 3 units.
- Topic is announced each year.
ENGL 359 - ENGL 387

ENGL 359 Units: 1.5 Hours: 3-0-0
16th-Century Poetry and Prose
Major non-dramatic texts of the period, such as More's Utopia, Sidney's Defense of Poetry, Bacon's Essays; lyrics by Sidney, Shakespeare, and other Elizabethans; and a substantial selection from Spenser's Faerie Queene.
Note: Credit will be granted for only one of ENGL 359, ENGL 419.

ENGL 360 Units: 1.5 Hours: 3-0-0
Special Studies in Shakespeare
This is a variable content course. Study of topics based in popular and/or high culture: may include popular fictions, films and a variety of texts, linking them to wider social signifying practices.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 362 Units: 1.5 Hours: 3-0-0
Special Studies in Renaissance Literature
A study of major literary works, genres, or themes of the English Renaissance chosen by the instructor, with annual advertisement. Emphasis will be on nondramatic works.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 364 Units: 1.5 Hours: 3-0-0
English Renaissance Drama
Main emphasis is on such major Elizabethan and Jacobean dramatists as Marlowe, Webster, Jonson, Middleton and Ford.

ENGL 365 Units: 1.5 Hours: 3-0-0
Also: RS 365
17th-Century Poetry and Prose in an Age of Revolution
A study of how writers in seventeenth-century England responded to and participated in significant changes in science, politics, religion and art by re-imagining their Christian and classical inheritance. Authors to be studied include John Donne, Ben Jonson, Aemelia Lanyer, George Herbert, Andrew Marvell, Francis Bacon, Thomas Hobbes, Sir Thomas Browne, Margaret Cavendish and others working in poetry and prose.
Note: Credit will be granted for only one of ENGL 365, ENGL 361, RS 365.

ENGL 366B Units: 1.5 Hours: 3-0-0
Shakespeare: Histories and Tragedies
Study of such plays as Richard II, Henry IV, Henry V, Hamlet, King Lear, Othello, Macbeth, and Antony and Cleopatra.
Note: Credit will be granted for only one of ENGL 366B, ENGL 366, ENGL 366A, ENGL 366D.

ENGL 366C Units: 1.5 Hours: 3-0-0
Shakespeare: Comedies, Problem Plays, and Romances
Study of such plays as A Midsummer Night's Dream, As You Like It, Twelfth Night, The Merchant of Venice, Measure for Measure, Troilus and Cressida, The Winter's Tale, and The Tempest.
Note: Credit will be granted for only one of ENGL 366C, ENGL 366, ENGL 366A, ENGL 366E.

ENGL 369 Units: 1.5 Hours: 3-0-0
Also: RS 369
Milton's Major Poetry and Selected Prose
A study of Paradise Lost, Samson Agonistes and other poems and prose.
Note: Credit will be granted for only one of ENGL 369, RS 369.

ENGL 372 Units: 1.5 Hours: 3-0-0
Special Studies in 18th-Century Literature
A study of a major aspect of literature in the century. The specific focus of the course will be determined by the instructor and advertised annually.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 374 Units: 1.5 Hours: 3-0-0
English Literature of the Restoration Period: 1660-1700
Poetry, prose and drama (excluding Milton's) produced between the Restoration of Charles II in 1660 and the close of the 17th century; particular emphasis will be placed upon Dryden and Restoration Comedy.

ENGL 374 Units: 1.5 Hours: 3-0-0
Swift, Pope, and the Literature of the Augustan Age: 1701-1745
An intensive study of the great age of English satire, with particular emphasis on Swift, Pope and the other satirists of the reigns of Queen Anne and the first two Georges.

ENGL 375 Units: 1.5 Hours: 3-0-0
Johnson, Blake and the Later 18th Century
A preliminary account of English neoclassicism followed by a study of literature of the Age of Sensibility with special emphasis on Samuel Johnson and his circle and on William Blake.

ENGL 376A Units: 1.5 Hours: 3-0-0
The Beginning of the English Novel: 1660-1750
A study of the development of the English novel in this period, with some attention to social and intellectual backgrounds when these appear to illuminate the novels.
Note: Credit will be granted for only one of ENGL 376A, ENGL 376, ENGL 423.

ENGL 376B Units: 1.5 Hours: 3-0-0
The English Novel: 1750 to the Early 19th Century
A study of the development of the English novel in this period, with some attention to social and intellectual backgrounds when these appear to illuminate the novels.
Note: Credit will be granted for only one of ENGL 376B, ENGL 376, ENGL 423.

ENGL 377 Units: 1.5 Hours: 3-0-0
British Fiction and Non-Fiction of the Early 19th Century
Prose writings (novels, autobiography, essays, short stories) of the early 19th century. Focus on works by Jane Austen, Sir Walter Scott, Mary Shelley, James Hogg, Thomas DeQuincey, and the Brontës; Gothic novels, historical novels and novels of manners.
Note: Credit will be granted for only one of ENGL 379, ENGL 384.

ENGL 380 Units: 1.5 Hours: 3-0-0
Victorian Fiction: Dickens to Eliot
A study of major achievements in British fiction during the high Victorian period; focus on works by Charles Dickens and George Eliot; other authors might include the Brontës, Thackeray, Trollope, Collins, Gaskell, issues may include industrialization, the changing roles of women, the impact of history; also realism, serial fiction, the circulating library, illustration, gender and writing.
Note: Credit will be granted for only one of ENGL 380, ENGL 384.

ENGL 381 Units: 1.5 Hours: 3-0-0
Late Victorian and Edwardian Fiction
A study of the changes in fiction as the Victorian period gives way to the modern age; focus on late-Victorian authors such as Hardy, Stevenson, and Wilde, and on pre-World War I figures such as Wells, Bennett, and early Woolf; issues include fin-de-siecle movements, the rise of information technology, the New Woman and the Dandy, imperial decline; conflicts between realism and neo-romanticism.
Note: Credit will be granted for only one of ENGL 381, ENGL 384.

ENGL 382 Units: 1.5 Hours: 3-0-0
The Romantic Period I
Studies in Wordsworth and Coleridge.
Note: Credit will be granted for only one of ENGL 382, ENGL 430.

ENGL 383 Units: 1.5 Hours: 3-0-0
The Romantic Period II
Studies in Keats, Shelley and Byron.
Note: Credit will be granted for only one of ENGL 383, ENGL 430.

ENGL 385 Units: 1.5 Hours: 3-0-0
Special Studies in 19th-Century British Literature
A study of a specific theme, problem or author of the 19th century. The specific topic will be determined by the instructor and advertised annually.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 386 Units: 1.5 Hours: 3-0-0
Victorian Poetry
Studies in Tennyson, Arnold, the Brownings, the Rossettis, Swinburne and Hopkins. The achievements of the major Victorian poets will be examined in relation to 19th century theories of aesthetics and poetics, with emphasis on topics such as historiography, medievalism, imperialism, orientalism, decadence, construction of gender, the relations between the sexes, the rise of science, and the decline of faith.

ENGL 387 Units: 1.5 Hours: 3-0-0
Victorian Culture and Thought
A study of the Victorian prose essay, both as a specific literary genre with its own methods and literary techniques, and as a vehicle for cultural criticism. Authors to be studied include Carlyle, Arnold, Marx, Mill, Martineau, Newman, Ruskin, Cobbe, Pater, Wilde and Laird. Topics include the rise of democracy, the nature of race, the function of the critic, the role of the university, the woman question, consumerism, masculinity, socialism, aestheticism and decadence.
ENGL 388 Units: 1.5 Hours: 3-0-0
Special Studies in 20th-Century British Literature
A study of a specific theme, problem or author of the period. The specific topic will be determined by the instructor and advertised annually.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 390 Units: 1.5 Hours: 3-0-0
Studies in Film and Literature
A study of the works of a single literary figure.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 391 Units: 1.5 Hours: 3-0-0
Special Studies in Literary Genre
A variable content course which focuses on a specific Literary Genre irrespective of geographic and political boundaries.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 392 Units: 1.5 Hours: 3-0-0
Studies in a Major Figure
A study of the works of a single literary figure.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 393 Units: 1.5 Hours: 3-0-0
Myth and Literature
A variable content course which studies texts that develop ideas of myth.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.

ENGL 394 Units: 1.5 Hours: 3-0-0
Special Topics in Cultural Studies
Study of topics based in popular and/or high culture; may include popular fictions, films, and a variety of texts, linking them to wider social signifying practices.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.

ENGL 401 Units: 1.5 Hours: 3-0-0
Web Design
Introduction to technologies and writing skills required to produce websites in HTML5, CSS3, and WordPress. Cross-platform tools, terms, processes, and standards. Emphasis on open-source tools and best practices for design and implementation.
Note: May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English.
Prerequisite(s):
• Two of ENGL 125, ENGL 135, ENGL 145, ENGL 146, ENGL 147, ENGL 181, ENGL 182, ENGL 215, ENGL 225, ECON 225, ENGR 240, WRIT 204, WRIT 215; or
• permission of the department.

ENGL 402 Units: 1.5 Hours: 3-0-0
Children’s Literature
The study of a selection of works drawn from various genres and periods of children’s literature, including novel, folk tale, myth, fantasy and picture book.
Note: Credit will be granted for only one of ENGL 402, ED CI 347A.

ENGL 406 Units: 1.5 Hours: 3-0-0
Special Studies in Professional Communication
Notes:
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
• May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English.
Prerequisite(s):
• Two of ENGL 125, ENGL 135, ENGL 145, ENGL 146, ENGL 147, ENGL 181, ENGL 182, ENGL 215, ENGL 225, ECON 225, ENGR 240, WRIT 204, WRIT 215; or
• permission of the department.

ENGL 407 Units: 1.5 Hours: 3-0-0
Social Media and Electronic Communication
Cultural, social and economic processes underlying digital social media and electronic communication. Social networks, collaborative writing applications, blogging, SEO writing, social sharing, Google mapping, videoconferencing, screencasting, webinars.
Notes:
• Credit will be granted for only one of ENGL 407, ENGL 406 (if taken in the same topic).
• May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English.
Prerequisite(s):
• Two of ENGL 125, ENGL 135, ENGL 145, ENGL 146, ENGL 147, ENGL 181, ENGL 182, ENGL 215, ENGL 225, ECON 225, ENGR 240, WRIT 204, WRIT 215; or
• permission of the department.

ENGL 410 Units: 3.0 Hours: 3-0-0
Backgrounds to English Literary Traditions
A study of intellectual backgrounds to Medieval and Renaissance literature; the contribution of Greek and Biblical materials in the formation of literary commonplaces and critical vocabularies. Among authors and topics that may be studied are Homer, Plato, Aristotle, Biblical writers, Vergil, Patristic theology, and the impact of Renaissance Humanism on the deployment of literary commonplaces and literary critical practice.
Note: Credit will be granted for only one of ENGL 410, ENGL 410A, ENGL 410B.

ENGL 412 Units: 1.5 Hours: 3-0-0
Research for Professional Writers
An introduction to the research skills, tasks and tools of professional writers. Practice in developing research questions and identifying and evaluating information sources; using search engines, databases, indexes and other electronic sources to gather information; developing research proposals; creating electronic research notebooks and annotated bibliographies; interpreting and reporting data.
Note: May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English.
Prerequisite(s):
• Two of ENGL 125, ENGL 135, ENGL 145, ENGL 146, ENGL 147, ENGL 181, ENGL 182, ENGL 215, ENGL 225, ECON 225, ENGR 240, WRIT 204, WRIT 215; or
• permission of the department.

ENGL 413 Units: 1.5 Hours: 3-0-0
Studies in Film and Literature
A study of various relationships between the art of film and relevant literary works. Topics will vary and will be announced annually.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 414A Units: 1.5 Hours: 3-0-0
American Film to 1945
A study of major accomplishments in American film concentrating primarily on films to 1945. Considers film as both a narrative form and a means of reflecting social concerns.
Note: Credit will be granted for only one of ENGL 414A, ENGL 414.

ENGL 414B Units: 1.5 Hours: 3-0-0
American Film Since 1945
A study of major accomplishments in American film concentrating primarily on films since 1945. Considers film as both a narrative form and a means of reflecting social concerns.
Note: Credit will be granted for only one of ENGL 414B, ENGL 414.

ENGL 417A Units: 1.5 Hours: 3-0-0
Digital Audio Production for Professional Writers
Introduction to audio production methods for radio, video, film and TV, internet and electronic journalism. Mixing sound effects and music; voice tracks and multi-track process to produce WAV and MP3 files for mastering and archiving purposes.
Notes:
• Credit will be granted for only one of ENGL 417A, ENGL 406 (if taken in the same topic), ENGL 417.
• May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English.
Prerequisite(s):
• Two of ENGL 125, ENGL 135, ENGL 145, ENGL 146, ENGL 147, ENGL 181, ENGL 182, ENGL 215, ENGL 225, ECON 225, ENGR 240, WRIT 204, WRIT 215; or
• permission of the department.
**ENGL 417B**
Units: 1.5  Hours: 3-0-0
Digital Video Production for Professional Writers
Video delivered via the Web (screencrests, blogs, instructional and promotional content). Techniques for creating video, including pre- and post-production (writing, shooting, editing, encoding and streaming).

**Notes:**
- Credit will be granted for only one of ENGL 417B, ENGL 406 (if taken in the same topic), ENGL 417.
- May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English.

**Prerequisite(s):**
- Two of ENGL 125, ENGL 135, ENGL 145, ENGL 146, ENGL 147, ENGL 181, ENGL 182, ENGL 215, ENGL 225, ECON 225, ENGR 240, WRIT 204, WRIT 215; or
- permission of the department.

**ENGL 418**
Units: 1.5  Hours: 3-0-0
Print Media Genres and Techniques for Professional Communication
Introduction to print-based genres associated with professional writing, including media kits, news releases, bios, speeches, op-ed writing and organizational newsletters.

**Notes:**
- Credit will be granted for only one of ENGL 418, ENGL 406 (if taken in the same topic).
- May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English.

**Prerequisite(s):**
- Two of ENGL 125, ENGL 135, ENGL 145, ENGL 146, ENGL 147, ENGL 181, ENGL 182, ENGL 215, ENGL 225, ECON 225, ENGR 240, WRIT 204, WRIT 215; or
- permission of the department.

**ENGL 419A**
Units: 1.5  Hours: 3-0-0
Narrative Film to 1945
A study of major accomplishments in international narrative film, concentrating primarily on films to 1945. Considers the rhetorical, artistic and political dimensions of film using the tools of textual analysis.

**ENGL 419B**
Units: 1.5  Hours: 3-0-0
Narrative Film since 1945
A study of major accomplishments in international narrative film, concentrating primarily on films since 1945 and including post-colonial works. Considers the rhetorical, artistic and political dimensions of film using the tools of textual analysis.

**ENGL 425**
Units: 1.5  Hours: 3-0-0
Formerly: ENGL 380
Special Studies in the Literature of the United States
Specific themes, problems, genres or authors in American literature.

**Notes:**
- Credit will be granted for only one of ENGL 425, ENGL 475 (if taken in the same topic), ENGL 380 (if taken prior to September 1995).
- May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

**ENGL 426**
Units: 1.5  Hours: 3-0-0
Studies in North American Literature
A variable content course which examines comparable themes, periods or authors in both Canadian and American Literature.

**Notes:**
- May be taken more than once for credit in different topics to a maximum of 3 units.
- Topic is announced each year.

**ENGL 427**
Units: 1.5  Hours: 3-0-0
19th-Century American Prose and Poetry
A study of the 19th-century prose and poetry which led to the full maturity of a distinctive social, political and intellectual literature, with particular emphasis on American transcendentalism. Authors may include Emerson, Fuller, Poe, Thoreau, Douglass, Jacobs, Whitman, Dickinson, William James and Du Bois.

**ENGL 428A**
Units: 1.5  Hours: 3-0-0
19th-Century American Fiction I
A study of American fiction up to the Civil War. Authors to be covered may include Irving, Cooper, Poe, Hawthorne, Melville, Stowe.

**Note:** Credit will be granted for only one of ENGL 428A, ENGL 428.

**ENGL 428B**
Units: 1.5  Hours: 3-0-0
19th-Century American Fiction II
American fiction from the Civil War to 1900; authors may include Alcott, Howells, Twain, James, Crane, Gilman, Jewett, Chopin, Chesnutt.

**Note:** Credit will be granted for only one of ENGL 428B, ENGL 428.

**ENGL 429A**
Units: 1.5  Hours: 3-0-0
20th-Century American Fiction to World War II
The American novel and short story in the first 40 years of the 20th century; authors may include James, Stein, Deiter, Wharton, Cather, Hemingway, Fitzgerald, Larsen, Dos Passos, Faulkner, Steinbeck, West, Hurston, Wright.

**Note:** Credit will be granted for only one of ENGL 429A, ENGL 429.

**ENGL 429B**
Units: 1.5  Hours: 3-0-0
Mid-20th Century American Fiction
The American novel and short story from the 1940s through the 1970s; authors may include Mailer, Ellison, O’Connor, Nabokov, Pynchon, Plath, Updike, Vonnegut, Bellow, Malamud, Roth, Doctorow, Kingston, Momaday, Reed, Morrison.

**Note:** Credit will be granted for only one of ENGL 429B, ENGL 429.

**ENGL 429C**
Units: 1.5  Hours: 3-0-0
Contemporary American Fiction
The American novel and short story from the 1980s to the present; authors may include Toni Morrison, Alice Walker, Tim O’Brien, John Updike, Philip Roth, Marilynn Robinson, Raymond Carver, Don DeLillo, Cormac McCarthy, Barbara Kingsolver, William Gibson, Art Spiegelman, Louise Erdrich, Sandra Cisneros, Richard Powers, Sherman Alexie.

**Note:** Credit will be granted for only one of ENGL 429C, ENGL 429.

**ENGL 431A**
Units: 1.5  Hours: 3-0-0
Formerly part of ENGL 431
Modern American Poetry I
Focuses on the first generation of American modernist poets whose major works begins to be written before the mid-1920s. Poets may include Ezra Pound, Marianne Moore, T. S. Eliot, Gertrude Stein, Robert Frost, Wallace Stevens, William Carlos Williams, Mina Loy and H. D.

**Note:** Credit will be granted for only one of ENGL 431A, ENGL 431.

**ENGL 431B**
Units: 1.5  Hours: 3-0-0
Formerly part of ENGL 431
Modern American Poetry II
Focuses on poets whose major work begins to be written in the 1920s and 1930s, the period in which Modernism in the arts was establishing its cultural authority. Poets may include Hart Crane, Langston Hughes, Muriel Rukeyser, Louis Zukofsky, Laura Riding, Jean Toomer, George Oppen and Lorine Niedecker.

**Note:** Credit will be granted for only one of ENGL 431B, ENGL 431.

**ENGL 432A**
Units: 1.5  Hours: 3-0-0
American Poetry: 1950-1975
Detailed study of American poetry from 1950 to 1975. The main poets studied may include: Charles Olson, Robert Duncan, Robert Creeley, Denise Levertov, Frank O’Hara, John Ashbery, Audre Lorde, Adrienne Rich, Elizabeth Bishop, James Merrill.

**Note:** Credit will be granted for only one of ENGL 432A, ENGL 432.

**ENGL 432B**
Units: 1.5  Hours: 3-0-0
American Poetry: from 1975 to the Present Day
Detailed study of American poetry from 1975 to the present. The main poets studied may include: Jorie Graham, Audre Lorde, Rita Dove, Ai, Lyn Hejinian, Susan Howe, Michael Palmer, Charles Bernstein, Kathleen Fraser, Bob Perelman.

**Note:** Credit will be granted for only one of ENGL 432B, ENGL 432.

**ENGL 433A**
Units: 1.5  Hours: 3-0-0
Formerly part of ENGL 433
Modern Irish Literature
Focuses on the literature that responded to Ireland’s turbulent socio-political history from roughly 1900 to World War II. Includes the Irish literary revival and responses to various movements associated with modernism. Comparative treatment of Irish literature in dialogue with English, American and continental European literature. Authors may include Wilde, Shaw, O’Casey, George Moore, Yeats, Gregory, Joyce, Bowen and Beckett.

**Note:** Credit will be granted for only one of ENGL 433A, ENGL 433.
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<td>ENGL 452</td>
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<td>Modern Canadian Poetry</td>
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</table>
ENGL 478 - ENGR 110

ENGL 478  Units: 1.5  Hours: 3-0-0
Special Studies in Literature and Environment
A study of topics in the field of ecocriticism, including how human relationships to natural landscapes and animals are mediated through literature; literature in relation to imperial, colonial and capitalist ecologies; literary production as shaping and shaped by global agencies and events of nature; the role of literature in an era of globalization and ecological crisis.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 479  Units: 1.5  Hours: 3-0-0
Victorian and Edwardian Children’s Fiction
Survey of the “Golden Age” in children’s fiction. Authors may include Lewis Carroll, Dinah Mulah Craik, Mary Mapes Dodge, Rudyard Kipling, Hans Christian Anderson, George MacDonald, Charles Kingsley, R. L. Stevenson, E. Nesbit, J. M. Barrie, Kenneth Grahame. Also surveys relevant secondary material on the history of childhood, contemporary reviews, and modern criticism of children’s literature.
Note: Credit will be granted for only one of ENGL 479, ENGL 385 (if taken in Sep 2011 - Apr 2014).

ENGL 480  Units: 1.5  Hours: 3-0-0
Topics Seminar for Majors
A variable content seminar for Majors and Honours students in an area of literary studies in English. May deal with a particular national literature, literary period, genre, author, or critical problem.
Note: May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Declared Honours or Major in English; or
• permission of the department.

ENGL 481  Units: 1.5  Hours: 3-0-0
In the Archives
A variable content course focusing on book history and textual scholarship with University Special Collections and Archives. Emphasis on material objects, bibliography, and hands-on, project-based practice. May include study of medieval manuscripts, early modern manuscripts and print, Victorian periodicals and modernist papers.
Notes:
• Credit will be granted for only one of ENGL 481, ENGL 353 (if taken in Jan-Apr 2015, Sep-Dec 2015, or Sep-Dec 2016), MEDI 451 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

ENGL 490  Units: 1.5  Hours: 3-0-0
Directed Reading in English
A specified reading project for Honours students to be determined by the student and the instructor; written assignments will be required.
Prerequisite(s):
• Declared Honours in English; and
• Permission of the department.

ENGL 492  Units: 1.5  Hours: 3-0-0
Directed Reading in Advanced Topics in Professional Communication
A specific writing project in some area of Professional Communication to be determined by the student and the instructor. Students must have the approval of the instructor, the Director of the Professional Communication Program, and the department Chair.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English.
Prerequisite(s):
• Two of ENGL 401, ENGL 406, ENGL 407, ENGL 408, ENGL 412; and
• permission of the department.

ENGL 493  Units: 1.5  Hours: 3-0-0
Directed Reading in Advanced Topics in Literary Study
Supervised study in some area of English literature; written assignments required.
Prerequisite(s):
• Declared Honours or Major in English; and
• permission of the department.

ENGL 499  Units: 1.5  Hours: 0-0-2
Graduating Essay in Honours
The graduating essay will be done under the guidance of an individual tutor assigned in third- and fourth-years.
Prerequisite(s):
• Minimum fourth-year standing; and
• declared Honours in English.

ENGR 001  Units: 4.5  Hours: 4-2-0
Work Term 1
Students are employed for a work term, normally of four months’ duration. Competencies typically addressed include personal management and work place behaviour. Provides an introduction to a productive work experience that is related to the student’s program of studies and individual interests.
Note: This is a Co-operative Education work term as defined on this page and thus the Co-op work term tuition fee on this page applies.
Prerequisite(s):
• ENGR 003; and
• one of BME 201, CENG 299, CIVE 250, ELEC 250, MECH 200, SENG 265; and
• Academic Writing Requirement satisfied; and
• permission of the faculty.

ENGR 002  Units: 4.5  Hours: 4-2-0
Work Term 2
Students are employed for a work term, normally of four months’ duration. Competencies typically addressed include communication and teamwork. Should generally provide an increased level of responsibility in an area that is related to the student’s program of studies and individual interests.
Note: This is a Co-operative Education work term as defined on this page and thus the Co-op work term tuition fee on this page applies.
Prerequisite(s):
• ENGR 001 and ENGR 130; and
• ENGR 120 or ENGR 240; and
• Academic Writing Requirement satisfied; and
• permission of the faculty.

ENGR 003  Units: 4.5  Hours: 4-2-0
Work Term 3
Students are employed for a work term, normally of four months’ duration. Competencies typically addressed include managing information, research and problem solving, and commitment to quality. Should generally provide an increased level of responsibility in an area that is related to the area of specialization in the student’s program of studies.
Note: This is a Co-operative Education work term as defined on this page and thus the Co-op work term tuition fee on this page applies.
Prerequisite(s):
• ENGR 002 and ENGR 130; and
• ENGR 120 or ENGR 240; and
• one of BME 200, CIVE 299, ECE 250, ELEC 250, MECH 200, SENG 265; and
• Academic Writing Requirement satisfied; and
• permission of the faculty.

ENGR 004  Units: 4.5  Hours: 4-2-0
Work Term 4
Students are employed for a work term, normally of four months’ duration. Competencies typically addressed include project and task management, social responsibility and continuous learning. Should generally provide a path to a career choice in the student’s anticipated degree.
Note: This is a Co-operative Education work term as defined on this page and thus the Co-op work term tuition fee on this page applies.
Prerequisite(s):
• ENGR 003; and
• one of BME 201, CENG 299, CIVE 285, ECE 299, ELEC 299, MECH 285, SENG 275, SENG 299; and
• permission of the faculty.

ENGR 110  Units: 2.5  Hours: 4-2-0
Design and Communication I
Introductory principles of engineering design processes through practical projects to be undertaken by teams of students; integrated development and demonstration of writing, research, design and presentation skills through research and design projects. Writing, research and organizational skills appropriate for University level writing.
Note: Not open for credit to students registered in or with credit in any of ENGR 111, ENGR 112, ELEC 199, ENGL 115, ENGL 135.
ENGR 112
Design I
Introductory principles of engineering design processes through practical projects to be undertaken by teams of students.
Note: Credit will be granted for only one of ENGR 112, ENGR 110, ENGR 111, ELEC 199.
Prerequisite(s): ENGL 135.

ENGR 120
Units: 2.5 Hours: 4-2-0
Design and Communication II
Principles of engineering science and design applied to practical projects undertaken by student teams. Integrated development and demonstration of writing, research, design and presentation skills; Referencing methods for scientific and technical literature; Characteristics of effective technical and scientific style; Emphasis on clarity, precision, and consistency; Practical experience in writing short technical documents such as memoranda, letters, abstracts, reports, papers, manuals, brochures, and specifications.
Note: Credit will be granted for only one of ENGR 120, ENGR 121, ENGR 240, ENGL 225.
Prerequisite(s):
• One of ENGR 110, ENGR 111, ENGR 112 and ENGL 135, ELEC 199 and ENGL 135, and
• CSC 110 or CSC 111 (CSC 111 may be taken as a corequisite).

ENGR 121
Units: 1.0 Hours: 1-2-0
Design II
Principles of engineering design with application to biomedical, civil, computer, electrical, mechanical and software engineering through practical projects to be undertaken by teams of students.
Note: Credit will be granted for only one of ENGR 121, ENGR 120.
Prerequisite(s):
• One of ENGR 110, ENGR 111, ENGR 112 and ENGL 135, ELEC 199 and ENGL 135, and
• ENGR 240 or ENGL 225; and
• CSC 110 or CSC 111 (CSC 111 may be taken as a corequisite).

ENGR 130
Units: 0.5
Formerly: ENGR 020
Introduction to Professional Practice
Awareness of the role and responsibilities of Professional Engineers in society with respect to the environment, ethics, equity, public and worker safety and health considerations. Introduction to technical and other forms of work term and/or work experience report preparation, understanding national and international placement standards, WorkSafeBC standards, engineering logbooks. Development of effective interview techniques, skill assessment and analysis, career management and development. Preparation of resumes and cover letters.
Note: Credit will be granted for only one of ENGR 130, ENGR 020.

ENGR 141
Units: 1.5 Hours: 3-0-1
Formerly: MECH 141
Engineering Mechanics
Forces, moments of forces, couples, resultants of force systems; distributed loads; hydrostatics; conditions of equilibrium and applications to particles and rigid bodies in two dimensions; analysis of statically determinate structures including beams, trusses and arches; bending moment and shear force diagrams; dry friction.
Note: Credit will be granted for only one of ENGR 141, MECH 141, MECH 241, MECH 245.
Prerequisite(s): MATH 100 or MATH 109.
Pre- or Corequisite(s): MATH 110 or MATH 211.

ENGR 240
Units: 1.5 Hours: 3-0-0
Technical Writing
Searching and referencing methods used in dealing with scientific and technical literature and on the characteristics of effective technical and scientific style. The emphasis throughout will be on clarity, precision and consistency. Students will acquire practical experience in the writing of short technical documents such as memoranda, letters and abstracts, longer forms such as reports, papers, and theses, and instructional forms such as manuals, brochures and specifications.
Note: Credit will be granted for only one of ENGR 240, ENGR 220, ENGL 225, ENGL 240.
Prerequisite(s):
• One of ENGR 110, ENGR 111, ENGR 112 and ENGL 135, ELEC 146, ENGL 147.

ENGR 297
Units: 1.5 Hours: 3-0-0
Technology and Society
Introduction to the effects of technology on society including the ethical, environmental, cultural, social, economic and political issues raised by technological change. The concepts of sustainability, civil society, engineering law (negligence and product liability torts, contract law and consumer protection statutes) and environmental stewardship are addressed in the context of systems engineering design.
Pre- or Corequisite(s): One of ENGR 120, ENGR 240, ENGL 225.

ENGR 330
Units: 1.5 Hours: 1-3-0
Professional Career Planning and Engineering Leadership
Career development activities, mentorship opportunities as well as individual coaching with a career educator. The course is designed to empower students to build upon and put into practice the professional career management skills developed through their co-op experiences. Each student will propose and execute a career development plan for transition into practicing professional engineering. Students will gain knowledge and an understanding of the social and cultural issues historically associated with the engineering profession.
Prerequisite(s): ENGR 003.

ENGR 446
Units: 1.0
Technical Report
A major technical report demonstrating written communication and analytical skills. Includes development and approval of topic, adherence to reporting guidelines and management of time constraints.
Prerequisite(s):
• ENGR 002; and
• 6 units of 400-level BME, CENG, CIV, CSC, ELEC, ECE, ENGR, MECH, or SENG courses and
• declaration in a BEng Program.
Corequisite(s): ENGR 003.

ENT 498
Units: 1.5 Hours: 3-0-0
Engineering Law
Sources and classification of law; professional engineering legislation, registration and discipline; introduction to tort law including negligence; introduction to contract law including employment law. Ethics in professional practice.
Prerequisite(s):
• ENGR 003; and
• declaration in a BEng Program.

ENT 100
Units: 1.5 Hours: 3-0-0
Introduction to Entrepreneurship
Introduces and applies fundamental knowledge of the phenomenon of innovation in for-profit, social, government, and other contexts; provides tools to aid in the recognition of innovation opportunities; introduces use of creativity techniques, design thinking, and other tools and perspectives to generate effective solutions to complex problems; provides change management tools and perspectives aimed at the successful adoption/acceptance of innovation.

ENT 402
Units: 1.5 Hours: 3-0-0
Entrepreneurship and Small Business for the Non-Specialist
The impact of entrepreneurship and the function of the entrepreneur in new venture creation. A framework is developed which incorporates marketing feasibility studies and financial analysis into a comprehensive business plan. The business venture is examined with respect to financial planning, marketing, management, and tax decisions at the various stages of the business life cycle.
Notes:
• Credit will be granted for only one of ENT 402, ENT 302, MECH 462.
• Enrolment limited to students outside the Entrepreneurship area of specialization.
Prerequisite(s):
• Either COM 220 and COM 250, or COM 321 and COM 351; and
• minimum fourth-year standing; or
• permission of the Program Director.
ENT 410 Units: 1.5 Hours: 3-0-0
Venture Marketing Expertise (Promise Skills)
As part of the integrated Entrepreneurship Core, this course material is designed to help students develop the conceptual tools and techniques needed to identify critical venture attributes and processes, and the consequent financial outcomes of venture creation decisions. This element of the Entrepreneurship area of specialization will help students to develop skills in recognizing the decision points and enacting the choice patterns that lead to relevant venture outcomes.
Prerequisite(s): All of COM 315, COM 316, COM 321, COM 322, COM 331, COM 341, COM 351, COM 361, COM 362, COM 371; or permission of the school.
Corequisite(s): All of ENT 411, ENT 412, ENT 413, COM 400.

ENT 411 Units: 1.5 Hours: 3-0-0
Venture Planning/Finance Expertise (Planning Skills)
As part of the integrated Entrepreneurship Core, this course material is designed to help students develop the conceptual tools and techniques needed to identify critical venture attributes and processes, and the consequent financial outcomes of venture creation decisions. This element of the Entrepreneurship area of specialization will help students to develop skills in recognizing the decision points and enacting the choice patterns that lead to relevant venture outcomes.
Prerequisite(s): All of COM 315, COM 316, COM 321, COM 322, COM 331, COM 341, COM 351, COM 361, COM 362, COM 371; or permission of the school.
Corequisite(s): All of ENT 410, ENT 412, ENT 413, COM 400.

ENT 412 Units: 1.5 Hours: 3-0-0
Acquiring Expert Venture Cognitions
As part of the integrated Entrepreneurship Core, this course is designed to provide an overarching conceptual framework within which to integrate the other course materials that students encounter within the Entrepreneurship specialization. Students examine the process and content (sequence and norms) of New Venture Expert Scripts, creating their own master and sub-scripts that enable them to become independent economic actors. Students create individual verbal and written searching, screening, planning, financing, start-up and harvesting scripts.
Prerequisite(s): All of COM 315, COM 316, COM 321, COM 322, COM 331, COM 341, COM 351, COM 361, COM 362, COM 371; or permission of the school.
Corequisite(s): All of ENT 410, ENT 411, ENT 413, COM 400.

ENT 413 Units: 1.5 Hours: 3-0-0
Portfolio Practicum
As part of the integrated Entrepreneurship Core, this course helps students to further integrate into practice the concepts experienced within the Entrepreneurship specialization. Students participate in industry tours, networking sessions, start-up experiences, visits from guest speakers, case studies and industry immersions. From these experiences, students create a portfolio that demonstrates to instructors, investors and other stakeholders their mastery of new venture skills and abilities, and the practical integration of knowledge sets acquired in the Entrepreneurship Specialization.
Prerequisite(s): All of COM 315, COM 316, COM 321, COM 322, COM 331, COM 341, COM 351, COM 361, COM 362, COM 371; or permission of the school.
Corequisite(s): All of ENT 410, ENT 411, ENT 412, COM 400.

EOS Earth and Ocean Sciences School of Earth and Ocean Sciences Faculty of Science

EOS 110 Units: 1.5 Hours: 3-3-0
Oceans and Atmosphere
Formerly also GEOG 110
Origin and structure of the oceans and atmosphere. Dynamic processes that drive ocean and atmosphere circulation, weather patterns and global climate change. The coastal ocean, marine ecosystems, nutrient and carbon cycles, human influences on ocean environments, marine resources and sustainability.
Notes: Credit will be granted for only one of EOS 110, GEOG 110, GEOG 203B, GEOG 213, GEOG 216, EOS 350 (if taken prior to May 2011). Credit will be granted for only two of the following courses with no more than one course from a particular group. Group 1: EOS 100, EOS 101; Group 2: EOS 110, GEOG 110, GEOG 216; Group 3: EOS 120, GEOG 120, GEOG 217.

EOS 120 Units: 1.5 Hours: 3-3-0
The Dynamic Earth
Formerly also GEOG 120
Notes: Credit will be granted for only one of EOS 120, GEOG 120, GEOG 203A, GEOG 213, GEOG 217. Credit will be granted for only two of the following courses with no more than one course from a particular group. Group 1: EOS 100, EOS 101; Group 2: EOS 110, GEOG 110, GEOG 216; Group 3: EOS 120, GEOG 120, GEOG 217.

EOS 170 Units: 1.5 Hours: 3-0-0
Formerly part of EOS 370
Natural Hazards
An overview of natural hazards including earthquakes, volcanoes, tsunami, landslides, flooding, extreme weather, and meteor impacts. Particular attention is given to hazards related to climate change, hazards affecting southwestern British Columbia, and important historic natural disasters. This is an introductory-level course that does not require a science/math background.
Note: Credit will be granted for only one of EOS 170, EOS 370.

EOS 201 Units: 1.5 Hours: 3-3-0
Sedimentary Geology
The physical, chemical and biological nature of sediments at sea and on land. The process of sediment transport, deposition and diagenesis. The origin and internal stratigraphy of sedimentary basins in the context of plate tectonics. The sedimentary record as used to reconstruct past climates, geographies, and earth and ocean dynamics. The geological evolution of western Canada as deduced from its stratigraphic record.
Prerequisite(s): EOS 120 and EOS 205.

EOS 202 Units: 1.5 Hours: 3-3-0
Structural Geology
Geometric, kinematic and dynamic analysis of deformation structures in rock bodies at different scales, in both brittle and ductile regimes. Stress and strain in rocks and their relationship to geologic structures. Interpretation of the physical mechanisms of folding and faulting in rocks with structural data and geological maps. The origin of crustal deformation in the context of plate tectonics.
Prerequisite(s): EOS 120.

EOS 205 Units: 1.5 Hours: 3-3-0
Mineralogy
Introduction to the fundamental principles and concepts of mineralogy and optical mineralogy. A practical and systematic treatment of the common rock-forming minerals and mineral groups. Emphasis will be placed on understanding the behaviour of minerals in relation to changing physical and chemical conditions in igneous, metamorphic, and sedimentary environments.
Prerequisite(s): EOS 120; and CHEM 102.

EOS 210 Units: 1.5 Hours: 3-0-0
Introductory Geophysics
An introduction to seismology, gravity, geomagnetism, paleomagnetism and heat flow, and how they contribute to our understanding of whole Earth structure and plate tectonics.
Note: Credit will be granted for only one of EOS 210, PHYS 210.
Prerequisite(s): MATH 101; and PHYS 110 or PHYS 120.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EOS 225</td>
<td>1.5</td>
<td>3-3-0</td>
<td>Earth System Modelling</td>
</tr>
<tr>
<td>EOS 240</td>
<td>1.5</td>
<td>3-3-0</td>
<td>Geochemistry</td>
</tr>
<tr>
<td>EOS 260</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Earth System Evolution</td>
</tr>
<tr>
<td>EOS 300</td>
<td>1.5</td>
<td>3-3-0</td>
<td>Earth Science Field School</td>
</tr>
<tr>
<td>EOS 311</td>
<td>1.5</td>
<td>3-3-0</td>
<td>Biological Oceanography</td>
</tr>
<tr>
<td>EOS 313</td>
<td>1.5</td>
<td>3-3-0</td>
<td>Introductory Geological Oceanography</td>
</tr>
<tr>
<td>EOS 314</td>
<td>1.5</td>
<td>3-3-0</td>
<td>Descriptive Physical Oceanography</td>
</tr>
<tr>
<td>EOS 316</td>
<td>1.5</td>
<td>3-3-0</td>
<td>Igneous and Metamorphic Geology</td>
</tr>
<tr>
<td>EOS 320</td>
<td>1.5</td>
<td>3-3-0</td>
<td>Paleobiology</td>
</tr>
</tbody>
</table>

**EOS 225 - Earth System Modelling**

An introduction to the construction, analysis, and interpretation of quantitative models of the Earth System and its components, with a particular emphasis on the use of computers in scientific problem solving. Both process models and statistical models will be discussed. Topics may include simple models of mountain building, reaction kinetics, global energy balance, ecosystem dynamics, and the geothermal gradient.

**Prerequisite(s):**
- MATH 202 or MATH 204; and
- one of PHYS 102, PHYS 102A and PHYS 102B, PHYS 110 and PHYS 111, PHYS 120 and PHYS 130.

**Pre- or Corequisite(s):**
- One of STAT 255, STAT 260, GEOG 226; or
- permission of the department.

**EOS 240 - Geochemistry**

Thermodynamic and kinetic approaches to understanding the Earth system. Application of theory to practical questions such as mineral formation, weathering, water quality, and petroleum formation. Thermodynamic and kinetic approaches are applied to the general geochemistry of the oceans, atmosphere and solid earth.

**Note:** Credit will be granted for only one of EOS 240, EOS 360 (if taken prior to September 1992).

**Prerequisite(s):**
- All of EOS 110, EOS 120, EOS 205; and
- one of CHEM 245, PHYS 217, PHYS 317.

**EOS 260 - Earth System Evolution**

Introduces the inherently interdisciplinary field of "Earth System Science" by studying how Earth has evolved throughout its history. Focus is on processes which link components of the Earth system and feedbacks which may alternately keep conditions on Earth stable or cause major change. The course includes study of some major events in Earth history (examples may include snowball Earth, mass extinctions, superplume events).

**Prerequisite(s):**
- EOS 110 and EOS 120; and
- CHEM 101 or CHEM 150; or
- permission of the department.

**EOS 300 - Earth Science Field School**

An up to two-week field course in and around southern Vancouver Island during which the students will be introduced to geological fieldwork (mapping, traversing, drawing sedimentary logs, sampling, recording field notes) and the regional geology and tectonics of Vancouver Island. Normally held in late April - early May after examinations for Year 2.

**Note:** Priority is given to students registered to BSc program in Earth Sciences or Combined Physics and Earth Sciences or Combined Chemistry and Earth and Ocean Sciences or Combined Physical Geography and Earth and Ocean Sciences or Combined Biology and Earth and Ocean Sciences.

**Prerequisite(s):**
- All of EOS 201, EOS 202, EOS 205; and
- declared Honours or Major in Earth Sciences or declared Combined Honours or Major in Physics and Earth Sciences, Chemistry and Earth and Ocean Sciences, Physical Geography and Earth and Ocean Sciences, or Biology and Earth and Ocean Sciences; or
- permission of the school.

**EOS 311 - Biological Oceanography**

An introduction to the ways in which physical, chemical and biological processes interact to regulate structure and productivity of marine ecosystems. Lectures focus primarily on planktonic ecosystems. Participation in a one-day oceanographic cruise is required.

**Note:** Credit will be granted for only one of EOS 311, BIOL 311, BIOL 311B.

**Prerequisite(s):**
- CHEM 101 or CHEM 150; and
- two of MATH 100, MATH 101, MATH 102, MATH 109, MATH 131; and
- one of PHYS 102, PHYS 102A and PHYS 102B, PHYS 110 and PHYS 111, PHYS 120 and PHYS 130; and
- minimum third-year standing.

**Recommendation(s):** BIOL 215 and EOS 110 recommended prior to EOS 311.

**EOS 313 - Introductory Geological Oceanography**

An introduction to the geological processes that shape the ocean basins, oceanic plate creation and structure, hydrothermal circulation at mid-ocean ridges, bathymetry, ocean islands, different types of ocean margins, ocean sediments, the sedimentary record of past ocean circulation, coastal geology.

**Prerequisite(s):**
- EOS 120; and
- CHEM 101 or CHEM 150.

**EOS 314 - Descriptive Physical Oceanography**

An introduction to the geography of Earth’s fluid ocean and the physics that govern it. Topics include fundamental physical variables and their distribution, air-sea interaction, water masses and their formation, large-scale ocean dynamics, equatorial and coastal physical oceanography, and interactions between physical, chemical, and biological processes in the ocean. Participation in a single-day oceanographic cruise is expected.

**Prerequisite(s):**
- Two of MATH 100, MATH 101, MATH 102, MATH 109, MATH 131; and
- one of PHYS 102, PHYS 102A and PHYS 102B, PHYS 110 and PHYS 111, PHYS 120.

**EOS 316 - Igneous and Metamorphic Geology**

The physical and chemical processes governing changes that rocks undergo as they equilibrate at different pressure and temperature conditions within the Earth. Melting, crystalization and sub-soldus recrystalization as a function of bulk composition. The role of different plate tectonic settings in controlling the pressure-temperature-composition conditions of formation of different igneous and metamorphic rocks.

**Note:** Credit will be granted for only one of EOS 316, EOS 310, EOS 320.

**Prerequisite(s):**
- EOS 205; and
- one of EOS 240, PHYS 217, PHYS 317.

**EOS 320 - Paleobiology**

Processes and patterns in the evolution of life through time: extinction, evolution and diversification as recognized from the fossil record. Major events in the history of life. The relationship of biotas to depositional systems: paleoecology, biostratigraphy and paleobiogeography. The major groups of microfossils and invertebrates will be studied with emphasis on their applications in Earth Sciences Laboratories and field trips will provide illustrative fossil examples.

**Note:** Credit will be granted for only one of EOS 330, EOS 360.

**Prerequisite(s):**
- One of Biology 12, BIOL 150A, BIOL 184; and
- EOS 201; or
- permission of the school.
<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
</table>
| EOS 335 | 1.5 | 3-3-0 | Isotopes in Natural Sciences  
Basic principles controlling isotope distribution, including natural abundances, radiogenic decay, equilibrium and kinetic isotope effects. Applications of the principles in the fields of: Earth history - global processes and chronology; mineralization - diagenesis, catagenesis; hydrogeology and characterization of water and air masses; and biogeochemistry and biological fractionation isotopes.

Note: Credit will be granted for only one of EOS 335, EOS 430.

Prerequisite(s): • EOS 225 or MATH 204; and
• either PHYS 111, PHYS 120 and PHYS 130; or

| EOS 340 | 1.5 | 3-0-2 | Atmospheric Sciences  
Introduction to the dynamic and thermodynamic processes governing the Earth’s weather and climate. Emphasis on energy and temperature; cloud and precipitation processes; winds and weather systems; ocean-atmosphere interaction; El Niño; and past, present and future climates.

Note: Credit will be granted for only one of EOS 340, PHYS 340.

Prerequisite(s): • One of PHYS 102, PHYS 102A and PHYS 102B, PHYS 110 and PHYS 111, PHYS 120 and PHYS 130; or
• permission of the department.

Pre- or Corequisite(s): • EOS 225 or MATH 204; and
• one of CHEM 245, PHYS 217, PHYS 317.

| EOS 350 | 1.5 | 3-0-0 | Understanding the Oceans  
Focuses on a small set of ocean topics involving human impacts on the ocean that are of particular relevance to society. Topics considered may include pollution, overfishing, ocean acidification, marine conservation, and coastal modification.

Notes: • Credit will be granted for only one of EOS 350, EOS 110 (if taken prior to May 2011), GEOG 110.
• Credit for this course will not be counted toward program requirements in Earth and Ocean Sciences (if taken prior to May 2011 or after May 2017), but Earth and Ocean Sciences students may take this course as an elective.

Prerequisite(s): Minimum second-year standing.

| EOS 365 | 1.5 | 3-0-0 | Climate and Society  
A survey of the climate system and its interaction with past, present, and future societies. Topics include: climate change and the onset of agriculture/domestication, climate change and the rise and fall of early civilizations, the anthropocene and global warming. The interplay between science, media, public relations and public policy will also be addressed.

Note: Credit will be granted for only one of EOS 365, ES 365.

Prerequisite(s): • Minimum third-year standing.
• If taken as ES 365, ES 200 and minimum third-year standing.

| EOS 400 | 1.5 | 3-0-0 | Advanced Field Geology  
A field trip of up to two week’s duration consisting of a transect of a major geological belt (usually the Canadian Cordillera). The focus varies with location, with the Cordilleran trip focusing on the tectonic interpretation of rock packages; the processes responsible for orogenesis; the role of orogens in the construction, growth, and evolution of continents; and how orogens affect and are affected by climate and the Earth system. Normally held in late August to early September, immediately prior to the commencement of the fall term.

Note: Priority is given to students registered to Honours or Major program in Earth Sciences.

Prerequisite(s): • EOS 220; and
• either EOS 316, or EOS 310 and EOS 320; and
• declared Honours or Major in Earth Sciences; or
• permission of the school.

Recomendation(s): EOS 330 strongly recommended prior to EOS 400.

| EOS 401 | 1.5 | 3-0-0 | Oceanographic Field School  
Methods of data acquisition, study and analysis required for solving oceanographic problems. Includes a field component held at Bamfield Marine Sciences Centre. Focus is on planning, implementing and analyzing a field data set, elucidating the biological, chemical, geological and physical dynamics of coastal waters.

Prerequisite(s): Three from EOS 311, EOS 312, EOS 313, EOS 314 or EOS 431.

| EOS 403 | 1.5 | 3-0-0 | Global Biogeochemical Cycles  
Organic matter is studied from its formation (primary production) through its transformation and destruction during transport, depositional, and diagenetic remineralization processes. Global carbon, nitrogen, phosphorus, and sulphur cycles are discussed. Emphasis is placed on describing the fluxes of nutrients and other major compounds within and across the interface of soils, and the sedimentary and water columns.

Notes: • Normally offered in alternate years.
• Students are advised to consult with the department to determine when this is offered.

Prerequisite(s): • EOS 240; and
• EOS 335 or EOS 430; or
• permission of the department.

| EOS 408 | 1.5 | 3-0-0 | Marine Geology  
A combined lecture and seminar course covering modern marine geological processes in a wide range of oceanic environments: mid-ocean ridges, mid-plate volcanoes and hot spots, coastlines, continental margins and abyssal plains. Modern methods of data collection and analysis, including the Ocean Drilling Program.

Notes: • Normally offered in alternate years.
• Students are advised to consult with the department to determine when this is offered.

Prerequisite(s): • EOS 201; and
• EOS 310 or EOS 316; or
• permission of the school.

| EOS 410 | 1.5 | 3-0-0 | Global Tectonics  
A study of global tectonic systems including geological, geophysical, geochemical and geographical perspectives on major tectonic environments. A wide range of examples from different continents will be used. Vancouver Island will also be examined.

Prerequisite(s): • EOS 202; or
• permission of the school.

| EOS 416 | 1.5 | 3-0-0 | High Temperature Petrology  
The thermodynamic and kinetic principles controlling the origin and behaviour of rocks at high temperatures and pressures. Thermodynamic and kinetic relations in igneous and metamorphic systems applied to understanding the petrogenesis of magmatic and metamorphic rock suites. Applications to the geodynamic, hydrothermal and tectonic evolution of the Earth and terrestrial planets.

Note: Normally offered in alternate years. Students are advised to consult with the department to determine when this is offered.

Prerequisite(s): • One of EOS 310, EOS 316, EOS 320; and
• one of CHEM 245, PHYS 217, PHYS 317.

| EOS 420 | 1.5 | 3-3-0 | Resource Geology  
A geological study of the major types of economically important metallic and nonmetallic minerals and other earth resources, basic processes of ore formation, exploration and mining techniques. The impacts of these activities on the environment are also considered.

Note: Normally alternates with EOS 422. Students are advised to consult with the department to determine when this is offered.

Prerequisite(s): EOS 201.

Pre- or Corequisite(s): • Either EOS 310, or EOS 316 and EOS 320; or
• permission of the school.
<table>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EOS 422</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Aqueous Chemistry in the Earth and Ocean Discusses the Earth’s major economic natural energy resources. Focuses on conventional oil and gas, coal, CBM and tar sands, including modes of formation, accumulation and recovery, along with the mechanisms of migration and trapping. Canadian examples of petroleum systems and basin modelling augment the material. To a lesser degree, other energy sources are looked at, such as nuclear fuels, solar, hydrogen, geothermal, biogas, wind and tidal, as well as related socio-economic-environmental issues. <strong>Prerequisite(s):</strong> EOS 201 and EOS 202.</td>
</tr>
<tr>
<td>EOS 423</td>
<td>1.5</td>
<td>3-3-0</td>
<td>Aqueous Chemistry in the Earth and Ocean Controls on the concentrations of aqueous species in the hydrosphere. Principles of chemical equilibrium and kinetics are applied to the major aspects of the global hydrochemical cycle. Investigates reactions and sources and sinks of elements in oceanic and anoxic aquatic systems such as rainwater, rivers, lakes, groundwater, estuaries and oceans; also the application of natural and anthropogenic tracers to geochemical problems within aquatic systems. <strong>Note:</strong> Normally offered in alternate years. Students are advised to consult with the department to determine when this is offered. <strong>Prerequisite(s):</strong> One of EOS 335, EOS 340, 1.5 units of 300- or 400-level CHEM course; or permission of the school.</td>
</tr>
<tr>
<td>EOS 427</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Geophysics Principles of seismology, gravity, geomagnetism, heat flow, and how they contribute to our understanding of whole Earth structure and plate tectonics. <strong>Notes:</strong> Credit will be granted for only one of EOS 427, PHYS 427. Normally offered in alternate years. Students are advised to consult with the department to determine when this course is offered. <strong>Prerequisite(s):</strong> PHYS 321 A and PHYS 326. <strong>Pre- or Corequisite(s):</strong> MATH 346.</td>
</tr>
<tr>
<td>EOS 431</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Physical Oceanography Observations and theories explaining the wind- and buoyancy-driven circulations of the ocean. Topics include: wind-forced currents; ocean-scale gyres; coastal circulation; conservation of dynamical tracers; mixing, potential energy and the resulting basin-scale overturning circulations; waves. <strong>Note:</strong> Credit will be granted for only one of EOS 431, PHYS 441. <strong>Prerequisite(s):</strong> EOS 225 or MATH 204; and one of PHYS 102, PHYS 102 A and PHYS 102 B, PHYS 110 and PHYS 111, PHYS 120 and PHYS 130; or permission of the school.</td>
</tr>
<tr>
<td>EOS 433</td>
<td>1.5</td>
<td>3-0-0</td>
<td>The Climate System Studies of the Earth’s climate require an understanding of the intimate links between the hydrosphere, atmosphere, cryosphere and biosphere. Basic theories of the dynamics of ocean and atmosphere. The physics and biogeochemistry of coupled models are examined with emphasis on simple intuition-building mathematical models as well as discussion of large computer models. <strong>Note:</strong> Normally offered in alternate years. Students are advised to consult with the department to determine when this is offered. <strong>Pre- or Corequisite(s):</strong> EOS 340; or permission of the school.</td>
</tr>
<tr>
<td>EOS 440</td>
<td>1.5</td>
<td>3-3-0</td>
<td>Hydrogeology Focuses on the occurrence and flow of groundwater, groundwater resource evaluation, as well as the role of groundwater in geologic processes, and processes that affect groundwater chemistry, within the Canadian context of management and protection of the groundwater resource. <strong>Prerequisite(s):</strong> EOS 240; and MATH 202 or MATH 204; or permission of the school.</td>
</tr>
<tr>
<td>EOS 450</td>
<td>1.5</td>
<td>3-3-0</td>
<td>Quaternary Geology The methods and theory of Quaternary research, stressing the processes of interaction between the geosphere and biosphere. Topics include dating methods, paleoenvironmental studies, glaciation and global change, geological hazards, interdisciplinary research and applied studies, particularly the influence for engineering design. <strong>Prerequisite(s):</strong> EOS 201 and EOS 240; or permission of the school.</td>
</tr>
<tr>
<td>EOS 480</td>
<td>1.5</td>
<td>3-3-0</td>
<td>Earth System Science An examination of the interrelationships between the complex systems operating in the solid Earth, hydrosphere, atmosphere and biosphere; methods of systems analysis for the planet; modelling of global processes. <strong>Prerequisite(s):</strong> One of EOS 225, MATH 248, PHYS 248; and EOS 260; and EOS 335 or EOS 430; and 3 units of EOS courses numbered 300 or higher (excluding EOS 350, EOS 360, EOS 365, EOS 370).</td>
</tr>
<tr>
<td>EOS 490</td>
<td>1.5 or 3.0</td>
<td>3-0-0</td>
<td>Directed Studies in Earth and Ocean Sciences With the consent of the School and the faculty member concerned, a student may be permitted to pursue a course of directed studies. <strong>Note:</strong> Students may not take more than 3 units of EOS 490 studies.</td>
</tr>
<tr>
<td>EOS 491</td>
<td>1.5-3.0</td>
<td>3-0-0</td>
<td>Advanced Topics in Earth and Ocean Sciences Examination of a specific topic in Earth and Ocean Sciences. <strong>Note:</strong> May be taken more than once for credit in different topics. <strong>Prerequisite(s):</strong> Permission of the department.</td>
</tr>
<tr>
<td>EOS 492</td>
<td>1.5-3.0</td>
<td>3-3-0</td>
<td>Advanced Laboratory Topics in Earth and Ocean Sciences Examination of a specific topic in Earth and Ocean Sciences, including a laboratory component. <strong>Note:</strong> May be taken more than once for credit in different topics. <strong>Prerequisite(s):</strong> Permission of the school.</td>
</tr>
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</table>
UVIC CALENDAR 2019-20

**EOS 499A** Units: 1.5
Formerly: part of EOS 499

Honours Thesis I
The first stage of a research project conducted under the direction of a faculty member.

Notes:
- Credit will be granted for only one of EOS 499A, EOS 499, EOS 499B.
- Open to Honours students only.
- EOS 499A and EOS 499B are "tied" courses and must be taken in consecutive terms except with permission of the department.
- Credit for EOS 499A will be assigned only upon successful completion of EOS 499B.

Prerequisite(s): Permission of the department.

Grading: INP, standard grade (assigned upon completion of 499B); if 499B is not completed, a grade equivalent to N will be assigned to 499A.

**EOS 499B** Units: 1.5
Formerly: part of EOS 499

Honours Thesis II
Continuation of a research project conducted under the direction of a faculty member.

Notes:
- Credit will be granted for only one of EOS 499B, EOS 499, EOS 499A.
- Open to Honours students only.
- EOS 499A and EOS 499B are "tied" courses and must be taken in consecutive terms except with permission of the department.
- Credit for EOS 499A will be assigned only upon successful completion of both courses.

Prerequisite(s): EOS 499A.

**EPHE**
Exercise Science, Physical and Health Education

School of Exercise Science, Physical and Health Education
Faculty of Education
Courses offered by the Faculty of Education are also found under the following course codes: AE, ED-D, ED-P, EDCI, EPHE, IA, IED, IE, ME.

**EPHE 104** Units: 0.5 Hours: 2-0-0
Special Activity
Used to pilot a new activity or as a directed study for a special activity not included in EPHE 105-137.

Notes:
- Pro Forma required.
- With special permission, may be taken more than once for credit in a degree program.

Prerequisite(s): One of admission to BEd (Secondary Curriculum) program with physical education teaching area, admission to BA program in Recreation and Health Education, admission to BSc program in Kinesiology.

**EPHE 105** Units: 0.5 Hours: 2-0-0
Swimming
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of swimming.

Note: Credit will be granted for only one of EPHE 105, PE 105.

**EPHE 106** Units: 0.5 Hours: 2-0-0
Track and Field
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of track and field.

Note: Credit will be granted for only one of EPHE 106, PE 106.

**EPHE 107** Units: 0.5 Hours: 2-0-0
Gymnastics
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of gymnastics.

Note: Credit will be granted for only one of EPHE 107, PE 107.

**EPHE 109** Units: 0.5 Hours: 2-0-0
Recreational Dance
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of recreational dance.

Note: Credit will be granted for only one of EPHE 109, PE 109.

**EPHE 111** Units: 0.5 Hours: 2-0-0
Golf
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of golf.

Note: Credit will be granted for only one of EPHE 111, PE 113.

**EPHE 116** Units: 0.5 Hours: 2-0-0
Badminton
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of badminton.

Note: Credit will be granted for only one of EPHE 116, PE 116.

**EPHE 117** Units: 0.5 Hours: 2-0-0
Tennis
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of tennis.

Note: Credit will be granted for only one of EPHE 117, PE 117.

**EPHE 120** Units: 0.5 Hours: 2-0-0
Basketball
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of basketball.

Note: Credit will be granted for only one of EPHE 120, PE 120.

**EPHE 121** Units: 0.5 Hours: 2-0-0
Soccer
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of soccer.

Note: Credit will be granted for only one of EPHE 121, PE 121.

**EPHE 122** Units: 0.5 Hours: 2-0-0
Volleyball
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of volleyball.

Note: Credit will be granted for only one of EPHE 122, PE 122.

**EPHE 123** Units: 0.5 Hours: 2-0-0
Rugby
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of rugby.

Note: Credit will be granted for only one of EPHE 123, PE 123.

**EPHE 124** Units: 0.5 Hours: 2-0-0
Field Hockey
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of field hockey.

Note: Credit will be granted for only one of EPHE 124, PE 124.

**EPHE 126** Units: 0.5 Hours: 2-0-0
Orienteering
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of orienteering.

Note: Credit will be granted for only one of EPHE 126, PE 126.

**EPHE 133** Units: 0.5 Hours: 2-0-0
Strength Training
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of strength training.

Note: Credit will be granted for only one of EPHE 133, PE 133.
EPHE 134  Units: 0.5  Hours: 2-0-0
Yoga
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of yoga.
Note: Credit will be granted for only one of EPHE 134, PE 134.

EPHE 135  Units: 0.5  Hours: 2-0-0
Martial Arts
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant’s level of performance, ability to analyze skills, and understanding of concepts within the activity of martial arts.
Note: Credit will be granted for only one of EPHE 135, PE 135.

EPHE 137  Units: 0.5  Hours: 2-0-0
Experiential Outdoor Education
Designed to develop each participant’s level of performance, ability to analyze skills, and understanding of concepts within the activity of experiential outdoor education.
Note: Credit will be granted for only one of EPHE 137, EPHE 104 (if taken in the same topic).
Prerequisite(s): One of admission to BEd (Secondary Curriculum) program with physical education teaching area, admission to BA program in Recreation and Health Education, admission to BSc program in Kinesiology.

EPHE 141  Units: 1.5  Hours: 3-2-0
Human Anatomy
Systematic study of human anatomy emphasizing the relationship between structure and anatomical function. Involves detailed examination of human tissues, organs, and structural components of all physiological systems (neural, muscular, skeletal, integument, cardiovascular, respiratory, digestive, renal, lymphatic, endocrine, reproductive) emphasizing those involved in human movement. Mandatory system-focused weekly laboratories using human skeletons, fresh tissue dissections, computer graphics, anatomical charts, and plastinated models complement lectures to provide an understanding of the structural organization of the human body.
Note: Credit will be granted for only one of EPHE 141, PE 141.

EPHE 142  Units: 1.5  Hours: 3-0-0
Personal Health, Wellness and Potential
An examination of lifestyle behaviours, which have the power to enhance or diminish personal potential. Current wellness models and motivational theories will be reviewed and applied to wellness planning as related to personal and professional performance. Topics will include physical activity and health; nutrition; stress management; substance use/abuse; environmental awareness; goal setting; and the process of decision-making.
Note: Credit will be granted for only one of EPHE 142, PE 142.

EPHE 143  Units: 1.5  Hours: 3-0-0
Multidisciplinary Foundations of Physical Activity
The relationship of physical activity to education, kinesiology, athletics, health, recreation and leisure. The contributions made by the sciences of physiology, motor learning and biomechanics are discussed. Students gain an understanding of the historical, philosophical and psychosocial foundations of physical education and discuss a wide range of contemporary issues as they affect physical activity and active living.
Note: Credit will be granted for only one of EPHE 143, PE 143.

EPHE 144  Units: 1.5  Hours: 3-0-0
Physical Literacy
Focuses on the development of fundamental movement skills in children and youth, its importance to healthy growth and development, and the implementation in recreation, educational and sport settings.

EPHE 145  Units: 1.5  Hours: 3-0-0
Optimizing Work-Life Integration
Focuses on the importance of work-life balance for job satisfaction, personal life satisfaction and health. Techniques and strategies for integrating work and personal life are discussed and students will learn how to monitor and effect their work-life balance.

EPHE 155  Units: 1.5  Hours: 3-0-0
Introduction to Nutrition: Concepts and Controversies
The basics of diet planning, dietary guidelines and weight management will be covered through the application and demonstration of nutritional principles and their relationship to physical activity and health. Controversial topics such as ergogenic aids, vitamin and mineral supplementation, alcohol, diets and organic foods will be discussed using a balanced view of scientific evidence.
Note: Credit will be granted for only one of EPHE 155, PE 155.

EPHE 156  Units: 1.5  Hours: 3-0-0
The Science of Batman
The extreme range of adaptability of the human body explored through the life of the Caped Crusader; examines human potential using Batman as a metaphor for the ultimate in human conditioning; evaluates the concepts of adaptation to exercise and injury from the perspective of science and exercise training; examines the multiple sciences behind exercise adaptation, musculoskeletal injury and concussion, and limitations of the human body and mind.

EPHE 200  Units: 1.5  Hours: 3-0-0
Introduction to Professional Practice
Introduces workplace professional practice expectations and provides learners with the opportunity to develop professional skills, using computer applications to search for information, collecting, storing and analyzing data, creating professional communications and writing professional reports. Focus on nature of co-operative education experiential education, including expectations, learning during the co-op experience, services provided by the EPHE Co-op Office and advice on how to apply for, and reflect upon, co-op placements.

EPHE 201  Units: 1.5  Hours: 3-2-0
Qualitative Analysis of Human Movement
Current theories, principles and practice related to the qualitative analysis of motor skills including basic mechanical principles (stability, force, leverage, and linear and rotary motion).

EPHE 241  Units: 1.5  Hours: 3-2-0
Formerly: EPHE 241B
Introduction to Human Systemic Physiology
The study of the integrated functions of physiological systems with emphasis on the nervous, endocrine, muscular, cardiovascular and respiratory systems.
Note: Credit will be granted for only one of EPHE 241, EPHE 241B, PE 241B.
Prerequisite(s): EPHE 141.

EPHE 242  Units: 1.5  Hours: 3-2-0
Formerly: EPHE 241A
Introduction to Human Cellular Physiology
The study of the molecular and cellular functions in humans with emphasis on homeostasis, cellular transport, protein synthesis, energy metabolism, cellular control and blood as a tissue.
Note: Credit will be granted for only one of EPHE 242, EPHE 241A, PE 241A.
Prerequisite(s): One of Biology 12, BIOL 150B, BIOL 186.

EPHE 243  Units: 1.5  Hours: 3-0-0
Foundations of Recreation and Leisure
An introduction to the nature and scope of recreation; a consideration of past influences and future trends; the role of the recreational professional.
Note: Credit will be granted for only one of EPHE 243, PE 243.

EPHE 244  Units: 1.5  Hours: 3-0-0
Canadian Recreation Delivery Systems
An overview of the development and delivery of recreational programs in Canada. Canadian federal, provincial, municipal, private and volunteer agencies are described and analyzed.
Note: Credit will be granted for only one of EPHE 244, PE 244.

EPHE 245  Units: 1.5  Hours: 3-2-0
Motor Learning
Neural and cognitive processes underlying human skilled action and the factors that influence learning and control of these actions. Ways in which the human motor system enables the acquisition and retention of complex movement skills and implications for the design of instructional situations to support retention and optimal performance of skilled actions.
Note: Credit will be granted for only one of EPHE 245, PE 245.
EPHE 252 Units: 1.5 Hours: 3-0-0
Leadership Methods for Recreation and Health Education
Theoretical and practical introduction to leadership, teaching, communication, and decision making skills in recreation/leisure services, sport and fitness. Field experience is required as part of this course.
Note: Credit will be granted for only one of EPHE 252, PE 252.

EPHE 253 Units: 1.5 Hours: 3-0-0
Program Planning
An analysis and application of theoretical and practical approaches for developing effective recreation/leisure services, sport, fitness, wellness, and health promotion programs.
Note: Credit will be granted for only one of EPHE 253, PE 253.

EPHE 270 Units: 1.5 Hours: 3-0-0
Foundations of Outdoor Recreation
Introductory exploration of how leisure and educational experiences in outdoor environments are developed and how the outdoor environments contribute to active living, health and wellness. Leadership approaches to foster environmental stewardship, participant safety, inclusiveness and enhance the quality of participants’ experiences. Exploration of Indigenous ways of knowing related to the outdoors and outdoor recreation and the interconnectedness between the natural and built environment, recreation, culture and health.
Note: Credit will be granted for only one of EPHE 270, PE 270.

EPHE 271 Units: 1.5 Hours: 3-0-0
Group Fitness
Application of theoretical knowledge of fitness development to groups of individuals. Blends theory and practice and field experience. Design and delivery of group exercise programming, safety, how to create supportive exercise environments and strategies for addressing potential challenges in group exercise contexts.

EPHE 246 Units: 1.5 Hours: 3-0-0
Strategies for Active Health
Designed specifically for physical education teachers, reviews health topics outlined in the BC Ministry of Education’s IRPs for Physical Education and Health and Career Education. Topics include Quality Daily Physical Education, Active Living, Comprehensive School Health, eating disorders, stress management, nutrition, and personal and school health planning. Also focuses on student-centered learning approaches to encourage students to become active advocates for their own health.
Notes:
• Credit will be granted for only one of EPHE 246, PE 246, PE 144.
• May also be of interest to those working in the recreation or health fields.

EPHE 270 Units: 1.5 Hours: 3-0-0
Foundations of Outdoor Recreation
Introductory exploration of how leisure and educational experiences in outdoor environments are developed and how the outdoor environments contribute to active living, health and wellness. Leadership approaches to foster environmental stewardship, participant safety, inclusiveness and enhance the quality of participants’ experiences. Exploration of Indigenous ways of knowing related to the outdoors and outdoor recreation and the interconnectedness between the natural and built environment, recreation, culture and health.
Note: Credit will be granted for only one of EPHE 270, PE 270.

EPHE 310 Units: 1.5 Hours: 3-0-0
Physical Education for General Classroom Teachers I
Assists generalist teachers in planning and implementing physical education programs for the elementary grades. Students develop the knowledge and pedagogical skills necessary to help children incorporate physical activity as part of a healthy lifestyle. Overall focus is on the learning of movement skills and on the developing child as a learner. Includes a variety of teaching experiences with elementary school-age children.
Notes:
• Credit will be granted for only one of EPHE 310, PE 247, PE 304, PE 310, EDUC 304.
• Students with credit for EPHE 310 and/or EPHE 311 may not receive credit for EPHE 312.
Prerequisite(s): Admission to BEd program in Elementary Education.

EPHE 311 Units: 1.5 Hours: 3-0-0
Physical Education for General Classroom Teachers II
Extends and refines the knowledge and pedagogical skills included in EPHE 310. Overall focus is on broadening their application to a variety of different movement categories in the elementary physical education curriculum. Students learn to create inclusive unit and yearly plans that encourage children to incorporate physical activity as part of a healthy lifestyle. Includes a variety of teaching experiences with elementary school-age children.
Note: Credit will be granted for only one of EPHE 311, PE 247, PE 304, PE 311, EDUC 304.
Prerequisite(s): EPHE 310; and
• admission to BEd program in Elementary Education.

EPHE 312 Units: 1.5 Hours: 3-0-0
Overview of Elementary or Middle School Physical Education
Overview of the content and structure of the BC elementary or middle school physical education curriculum. Introduces basic pedagogical skills necessary to implement a quality physical education program. Focus is on the learning of movement skills and on the developing student as a learner. Includes a variety of teaching experiences with peers and elementary or middle school students.
Notes:
• Credit will be granted for only one of EPHE 312, PE 312, PE 247, PE 304, or EDUC 304.
• Students with credit in EPHE 312 may not receive credit for EPHE 310 and/or EPHE 311.
Prerequisite(s): Admission to BEd post-degree professional program in Elementary or Middle Years Education.

EPHE 341 Units: 1.5 Hours: 3-2-0
Biomechanics
Focuses on the fundamental physical and mechanical laws that control human movement and relates these laws to the techniques used in a variety of motor skills. Teaches how optimal performances in motor skills are based on the best use of these laws.
Note: Credit will be granted for only one of EPHE 341, PE 341.
Prerequisite(s):
• EPHE 201, and
• One of MATH 100, 102, 109; and
• one of PHYS 102, 102A, 110.

EPHE 342 Units: 1.5 Hours: 3-0-0
History of Physical Activity and Sport
Focuses on how narratives relating to physical activity and sport in the past are constructed, interpreted and give meaning to contemporary views of Canadian society and what it means to be Canadian.
Note: Credit will be granted for only one of EPHE 342, PE 342.

EPHE 344 Units: 1.5 Hours: 2-1-0
Care and Prevention of Athletic Injuries
An introduction to general athletic training practices. Topics include safe environments, identifying risk factors associated with specific sports, legal responsibilities and documentation, developing and implementing emergency protocols for crisis procedures, and basic taping and strapping techniques. May include a practical field experience.
Notes:
• Credit will be granted for only one of EPHE 344, PE 344.
• Current certification in a minimum of Standard First Aid (including CPR Level C) is required prior to taking this course.
Prerequisite(s):
• EPHE 241 or EPHE 241B, or
• permission of the school.

EPHE 345 Units: 1.5 Hours: 3-0-0
Health Education for Children and Youth
An introduction to health education as an education-driven approach to voluntary behaviour change. Examines how health education contributes to the development of individual and group strategies to improve health knowledge, attitudes, skills and behaviours. Emphasizes approaches appropriate for children and youth, including community and school health settings.

EPHE 346 Units: 1.5 Hours: 3-0-0
Motor Development and Physical Maturation
An overview of motor development and maturation from the neonate to adulthood and old age. Special attention will be given to the growth and motor development characteristics of children and adolescents.
Notes:
• Credit will be granted for only one of EPHE 346, PE 346.
• No prerequisite required but a background in anatomy is recommended.

EPHE 347 Units: 1.5 Hours: 3-0-0
Sport in Society
Exploration of the historical use of sport as an expression of culture, ideology, and political philosophy. Comparison of the way in which sport is used as a means of developing national pride and international prestige. Considers how the commercialization of sport has made it a money-making vehicle for countries, cities, multi-national corporations, and television networks.
Note: Credit will be granted for only one of EPHE 347, PE 347.

EPHE 348 Units: 1.5 Hours: 3-2-0
Psychology of Physical Activity
An examination of the psychological concepts related to human physical activity behaviour, which includes engagement in exercise and sport.
Note: Credit will be granted for only one of EPHE 348, PE 348.
Prerequisite(s): PSYC 100A and PSYC 100B.
EPHE 350  Units: 1.5  Hours: 3-0-0
Formerly: EPHE 250
Children and Youth with Special Needs in Physical Activities
An introduction to the development, implementation, and assessment of inclusive physical activity programs for children and youth with disabilities. The course includes experiential learning.
Note: Credit will be granted for only one of EPHE 350 or EPHE 250.

EPHE 351  Units: 1.5  Hours: 3-0-0
Community and Population Health
Builds on students' knowledge of individual wellness and lifestyle behaviours by exploring the concepts of community and population health. Topics will include: the evolution of health promotion and population health, the determinants of health; epidemiology of health behaviours; understanding and enhancing the health of children, youth, adults, seniors; principles of ecology and environmental health.
Note: Credit will be granted for only one of EPHE 351, PE 351.

EPHE 352  Units: 1.5  Hours: 3-0-0
Introduction to Physical Activity Instructional Techniques
Methods of instruction in physical activities for school and related groups. Field experience may be required as part of this course.
Note: Credit will be granted for only one of EPHE 352, PE 352.
Prerequisite(s):
• Admission to BSc program in Kinesiology; or
• Admission to BA program in Recreation and Health Education; admission to BEd (Secondary Curriculum) program, admission to BEd (Elementary Curriculum) program, admission to BEd program in Elementary Education, or permission of the school.

EPHE 355  Units: 1.5  Hours: 3-1-0
Functional Anatomy
The study of human anatomy of the musculoskeletal system and related neural structures with focus on functional applications. Emphasis is placed on the relationship between anatomical organization and human movement including movement analysis, as well as designing and implementing exercises to address muscle imbalances and injury prevention in healthy populations. There is some application to causes, prevention and rehabilitation of activity-related musculoskeletal disorders.
Note: Credit will be granted for only one of EPHE 355, PE 355.
Prerequisite(s):
• EPHE 201; and
• EPHE 241 or EPHE 241B; and
• admission to BSc program in Kinesiology.
Corequisite(s): EPHE 360.

EPHE 356  Units: 1.5  Hours: 3-0-0
Principles of Facility Administration
Study of the concepts and processes of management as they apply to leisure service, recreation, fitness and health facilities. Emphasis on problem-solving techniques used by administrators and managers in the planning, designing, controlling, financing, renovating and maintaining of such facilities.
Note: Credit will be granted for only one of EPHE 356, PE 356.

EPHE 357  Units: 1.5  Hours: 3-0-0
Introduction to Research
An introduction of quantitative and qualitative research approaches to disciplinary areas in the School of Exercise Science, Physical and Health Education. Topics include methods and design, measurement issues, analysis and interpretation of literature and analytical procedures used in research.
Note: Credit will be granted for only one of EPHE 357, PE 357.

EPHE 358  Units: 1.5  Hours: 3-0-0
Formerly: EPHE 354A
Management in Recreation and Health
A review of general administrative and organizational theories with particular reference to their application in recreation and health related service agencies. Topics include: the nature of administration, structure of organizations, policy making, human resource development, change management, meetings, strategic planning and the advancement of partnerships.
Note: Credit will be granted for only one of EPHE 358, EPHE 354A, PE 354A.
Pre- or Corequisite(s): One of COOP 001, RHED 001, KINE 001.

EPHE 359  Units: 1.5  Hours: 3-0-0
Formerly: EPHE 354B
Fiscal and Legal Management in Recreation and Health
A detailed look at the budgeting process, financial control, goal setting, risk management and legal liability in recreation and health related service agencies. Although 358 is not a prerequisite, 359 is best taken in conjunction with 358.
Note: Credit will be granted for only one of EPHE 359, EPHE 354B, PE 354B.
Prerequisite(s): One of COOP 001, RHED 001, KINE 001.

EPHE 360  Units: 1.5  Hours: 3-2-0
Exercise Prescription
Principles of fitness and the development of exercise programs to enhance health and/or performance of children, adults and special populations including athletes, the elderly and disabled; application of programs in a variety of settings; methods of evaluating physiological adaptation to exercise using laboratory and field experiences.
Note: Credit will be granted for only one of EPHE 360, PE 360.
Prerequisite(s):
• EPHE 241 or EPHE 241B; or
• permission of the school.

EPHE 361  Units: 1.5  Hours: 3-3-0
Coaching Studies
An in-depth study of coaching theory. Students who successfully complete the course will receive the Coaching Association of Canada’s Level 1 and 2 theory certification. Requires a practical coaching experience in a sport of the student's choice.
Note: Credit will be granted for only one of EPHE 361, PE 361, PE 463.
Grading: INP, standard grade.
EPHE 443  
**Units:** 1.5  
**Hours:** 3-0-0  
**Organization and Administration of Physical Education**

Nature and function of administration, management of equipment and facilities; organization and management of programs of physical education and athletics; survey of the organization in Canadian schools.

**Note:** Credit will be granted for only one of EPHE 443, PE 444.

**Prerequisite(s):** Admission to BEd (Secondary Curriculum) program with physical education teaching area.

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EPHE 444  
**Units:** 1.5  
**Hours:** 3-2-0  
**Measurement and Evaluation in Exercise Science**

Use of laboratory and field tests in the assessment of physical performance and physique. Test administration and interpretation of results.

**Note:** Credit will be granted for only one of EPHE 444, PE 444.

**Recommendation(s):** A background in physiology recommended prior to EPHE 444.

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EPHE 445  
**Units:** 1.5  
**Hours:** 3-0-0  
**Developmental and Adaptive Physical Activity**

Examination of physical and recreational activities for individuals with disabilities. Methods of assessing physical performance, adapting equipment and facilities and applying programming techniques are explored. Field experience is required as part of this course.

**Note:** Credit will be granted for only one of EPHE 445, PE 445.

**Prerequisite(s):**
- Minimum fourth-year standing; and
- declaration of one of BSc program in Kinesiology, BA program in Recreation and Health Education, BEd program in Secondary Curriculum with physical education as a teaching area.

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EPHE 447  
**Units:** 1.5  
**Hours:** 2-0-2  
**Kinesiology Seminar and Practicum**

Focuses on preparation for professional practice through aspects of reflective practice, goal development, competency assessment, career planning, and electronic portfolio development. Post graduate Kinesiology opportunities are explored in depth. The second term requires a student-developed evidenced based seminar that addresses a topic pertinent to the Kinesiology field.

**Notes:**
- Credit will be granted for only one of EPHE 447, PE 447.
- Scheduled over the full winter session (first and second terms).

**Prerequisite(s):**
- EPHE 253; and
- minimum fourth-year standing; and
- admission to BSc program in Kinesiology.

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EPHE 449  
**Units:** 1.5  
**Hours:** 3-0-0  
**Physical Parameters of Aging**

The anatomical and physiological changes associated with human aging and the relationships between hypokinetic (inactivity induced) disease, stress, and nutritional habits to aging and the merits of various intervention strategies.

**Note:** Credit will be granted for only one of EPHE 449, PE 449.

**Prerequisite(s):**
- EPHE 241 or EPHE 241B; or
- permission of the school.

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EPHE 451  
**Units:** 1.5  
**Hours:** 3-0-0  
**Leadership Issues in Fitness, Health, and Wellness**

This inquiry-based learning course examines current and emergent leadership issues in the fitness, health and wellness fields. Topics include: national fitness leadership certification and registration programs in Canada and the United States, trends in fitness and lifestyle programming, alternative health and wellness programs and services and leadership and management models in the not-for-profit, public and private enterprise systems.

**Note:** Credit will be granted for only one of EPHE 451, PE 451.

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EPHE 452  
**Units:** 1.5  
**Hours:** 3-0-0  
**Strategies for Games in Physical Education**

Methods of teaching game activities to students in secondary schools and related groups. Field experience is required.

**Note:** Credit will be granted for only one of EPHE 452, PE 452.

**Recommendation(s):** Recommended that students take EPHE 352 before register in EPHE 452

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EPHE 453  
**Units:** 1.5  
**Hours:** 3-0-0  
**Event Management**

Provides opportunities for students to apply their planning, risk management and interpersonal communication skills to the development and management of an event. Field experience is required.

**Prerequisite(s):** All of EPHE 253, EPHE 358, EPHE 359, ED-D 417.

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EPHE 454  
**Units:** 1.5  
**Hours:** 3-0-0  
**Marketing for Health and Social Change**

The study and application of social marketing concepts and strategies to address the health and social change opportunities for, and challenges facing, the recreation profession and provide a synthesis for the graduating student.

**Note:** Credit will be granted for only one of EPHE 454, PE 454.

**Prerequisite(s):**
- RHED 001; and
- COOP 001 or RHED 002; and
- minimum fourth-year standing; and
- admission to BA Co-operative Education program in Recreation and Health Education.

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EPHE 455  
**Units:** 1.5  
**Hours:** 3-0-0  
**Nutrition for Exercise and Health**

The study of nutrition in the applied context of physical activity, exercise and sport performance. Examination of the role of macro- and micro-nutrient consumption, the effects of nutritional supplements and hydration strategies, and the use of specialized diets for performance enhancement will be examined.

**Note:** Credit will be granted for only one of EPHE 455, PE 455.

**Prerequisite(s):** EPHE 155 and EPHE 241.

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EPHE 456  
**Units:** 1.5  
**Hours:** 3-0-0  
**Occupational Ergonomics**

The application of ergonomic principles to industrial settings, work site job analysis, assessing biomechanical risk factors and the development of risk prevention programs. Specific emphasis is placed on understanding the relevant Canadian occupational health and safety legislation and ergonomic standards.

**Note:** Credit will be granted for only one of EPHE 456, PE 456.

**Prerequisite(s):** EPHE 241 or EPHE 241B.

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EPHE 457  
**Units:** 1.5 or 3.0  
**Hours:** 3-0-0  
**Special Topics in Exercise Science, Physical and Health Education**

**Note:** May be taken more than once for credit in different topics.

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EPHE 494  
**Units:** 1.5  
**Directed Studies in Exercise Science, Physical and Health Education**

Research projects, directed reading, or additional coursework in a specified area.

**Notes:**
- May be taken more than once for credit in different topics to a maximum of 3 units.
- Pro Forma required.

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EPHE 499  
**Units:** 3.0  
**Honours Thesis or Tutorial**

Research under the direction of faculty for Honours students only.

**Notes:**
- Credit will be granted for only one of EPHE 499, PE 499.
- Pro Forma required.

**Grading:** INP, standard grade.

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EPHE 764  
**Units:** 1.5  
**Hours:** 3-0-0  
**Curriculum and Instruction in Secondary Physical Education**

**Note:** Credit will be granted for only one of EPHE 764, ED-C 764, PE 764.

**Prerequisite(s):**
- Admission to Professional Year or Post Degree Professional program; or
- permission of the school.
**ER 250 - ER 328**

### Environmental Restoration

**School of Environmental Studies**  
**Faculty of Social Sciences**

**ER 250**  
Units: 1.5  
Also: ES 250  
**Directed Experiential Learning in Ecological Restoration**

Conducted in relation to work or volunteer activities with a host organization identified by the student and approved by the RNS Academic Administrator or the Director of the School of Environmental Studies. Student engages in application and assessment of methods in ecological restoration. Must include at least 150 hours of applied activities. Assessment typically involves a reflective journal and final paper. Students are responsible for proposing an internship and arranging for a supervising instructor.

**Notes:**
- Credit will be granted for only one of ER 250, ES 250.
- May be taken more than once for credit in different topics for a maximum of 3 units.

**Prerequisite(s):** Permission of the program.

**ES 301**  
Units: 1.5  
Hours: 3-0-1  
**Political Ecology**

An introduction to the various socio-political and philosophical issues associated with the concept of a sustainable society. Emphasis is placed on the analysis of the complex relationships between social and biophysical systems. Examines how communities and environments are being impacted by the globalization of economies and cultures, technologies and ideologies, as well as responses from a variety of local, non-governmental and international agencies.

**Prerequisite(s):**
- ES 200 with a minimum grade of B-; and
- minimum second-year standing; or
- permission of the school.

**ER 311**  
Units: 1.5  
Hours: 3-0-0  
Formerly: also ES 341  
**Principles and Concepts of Ecological Restoration**

An examination of how effective restoration depends on both ecological and cultural awareness, including the physical, chemical and biological characteristics of ecosystems from local to global scales; the impacts of human-induced change; the philosophical and ethical context for good restoration, the need for and significance of community involvement; the legal and policy frameworks that direct and influence restoration activities; and the importance of understanding essential ecosystem characteristics in restoration.

**Note:** Credit will be granted for only one of ER 311, ES 341 (if taken prior to May 2013), ES 352, ES 400D (if taken in Sep-Dec 1995 or Jan-Apr 1996).

**Prerequisite(s):**
- Admission to Certificate or Diploma program in Restoration of Natural Systems; or
- permission of the program.

**ER 312A**  
Units: 1.5  
**Field Study in Ecological Restoration I**

Introduces basic field methodologies for assessment and restoration of local sites; includes individual and group field research, and involves field surveys, observation and background study on specific ecosystem types.

**Prerequisite(s):**
- Admission to Certificate or Diploma program in Restoration of Natural Systems; or
- permission of the program.

**ER 312B**  
Units: 1.5  
**Field Study in Ecological Restoration II**

An advanced field study course involving detailed site evaluation (prescription). May involve participation in a restoration project. With permission, the practicum can be undertaken at locations outside the province or internationally.

**Prerequisite(s):**
- ER 312A; and
- admission to Certificate or Diploma program in Restoration of Natural Systems; or
- permission of the program.

**ER 313**  
Units: 1.5  
**Biodiversity and Conservation Biology**

Study of biological organisms and ecosystems with particular reference to mechanisms of change and human impacts on the environment. Focuses on: biodiversity (definition, assessment methods, loss, and evaluation); population biology (concepts and research methods); habitat loss; species extinction; exotic species and their impacts; and possibilities for human intervention in alleviating trends in species loss and ecosystem degradation.

**Note:** Credit will be granted for only one of ER 313, BIOL 370, ES 318, ES 320, ES 348.

**Prerequisite(s):**
- If taken as ER 313,
  - admission to Certificate or Diploma program in Restoration of Natural Systems; or
  - permission of the program.
- If taken as ES 348,
  - all of ER 200, BIOL 184, BIOL 186.

**ER 314**  
Units: 1.5  
**Ethical, Legal and Policy Aspects of Environmental Restoration**

Addresses the relationship of environmental values to legislative and legal systems. Includes: ethical considerations in land management; future economic benefit and ecological cost; the land ethic; policy and legal considerations in restoration; ecorestoration in research and natural resource management programs.

**Prerequisite(s):**
- Admission to Certificate or Diploma program in Restoration of Natural Systems; or
- permission of the program.

**ER 325**  
Units: 1.5  
**Ecosystems of British Columbia, Canada and the World**

A survey of the major ecoregions of Canada and the world, their characteristics, and their current status. Classification systems in Canada and British Columbia. Major types of ecosystems, from marine and aquatic to forest, grassland, and desert systems will be discussed including the significant threats to each, and core causes of change. Consideration given to biodiversity, fragmentation, ecological resilience; succession.

**Prerequisite(s):**
- Admission to Certificate or Diploma program in Restoration of Natural Systems; or
- permission of the program.

**ER 326**  
Units: 1.5  
Also: ES 423  
**Traditional Systems of Land and Resource Management**

The role of traditional ecological knowledge in the understanding and documentation of the biodiversity of natural systems and their restoration. Examination of how restoration strategies can benefit from the close relationship of Indigenous Peoples to their local environments, and from their knowledge of plants and animals, their habitats and ecological interrelationships, as well as from traditional land and resource management strategies.

**Note:** Credit will be granted for only one of ER 326, ES 353, ES 423.

**Prerequisite(s):**
- If taken as ES 423,
  - ES 200 and ES 321; or
  - permission of the school.

**ER 327**  
Units: 1.5  
**Ecorestoration Strategies: Case Studies**

Examination of specific sites illustrating restoration problems and solutions. Examples include mine reclamation projects, highway and rail right-of-way stabilization, urban ravine and stream rehabilitation.

**Prerequisite(s):**
- Admission to Certificate or Diploma program in Restoration of Natural Systems; or
- permission of the program.

**ER 328**  
Units: 1.5  
**Forest Restoration and Sustainable Forestry**

Basic concepts of forest ecology and succession following natural and human disturbance. "Old Growth": definition and characteristics. Forest practices from a restoration viewpoint: the ecosforestry model. Planning and restoration strategies for hydro-riparian zones. Analysis of silvicultural prescriptions and terrain issues (slope stability, road building) from an ecological perspective.

**Prerequisite(s):**
- Admission to Certificate or Diploma program in Restoration of Natural Systems; or
- permission of the program.
**ER 329** Units: 1.5

**Ming Restoration**
Impact of mines and mining practices on natural systems and landscapes; physical and chemical characteristics of mine sites and debris; restoration vs. reclamation; pre- and post-disturbance restoration strategies; engineering issues; revegetation and remediation of soil at mine sites; long-term problems such as slope stability and acid mine drainage; legislation, policies and regulations.

Prerequisite(s):
- Admission to Certificate or Diploma program in Restoration of Natural Systems, or
- permission of the program.

Recommendation(s): Knowledge of physical geography such as GEOG 213 or equivalent strongly recommended prior to ER 329.

**ER 331** Units: 1.5

**Urban Restoration and Sustainable Agricultural Systems**
The role of restoration in natural systems in the populated landscape; structural characteristics of the landscape and its natural ecological potential; sustainable intensive human use. Planning and design, role of green space, natural corridors, recreation, soil and water conservation and restoration, ecological landscape architecture, integrated pest management, organic agriculture, urban agriculture, permaculture, British Columbia and world examples.

Prerequisite(s):
- Admission to Certificate or Diploma program in Restoration of Natural Systems, or
- permission of the program.

**ER 332** Units: 1.5

**Selection and Propagation of Native Plants for ecological Restoration**
An introduction to the principles of native plant selection and propagation to meet site-specific objectives for ecosystem restoration. Topics include native plant propagation techniques; the role of artificial propagation in ecosystem rehabilitation and restoration; criteria for species selection; scientific and ethical principles for the collection of propagation materials; site stabilization; site preparation; out-planting; and bio-engineering.

Note: Credit will be granted for only one of ER 332, ER 338 (if taken in the same topic).

Prerequisite(s):
- Admission to Certificate or Diploma program in Restoration of Natural Systems, or
- permission of the program.

**ER 334** Units: 1.5

**Soil Conservation and Restoration**
Physical, chemical and biological characteristics of soils and their relationship to restoration. Soil fertility; importance of soil flora and fauna, especially mycorrhizae. Comparison of characteristics of undisturbed soils. Types of soil disturbance in agriculture, forestry, mining and urban environments; soil restoration strategies; planning pre- and post-disturbance.

Prerequisite(s):
- Admission to Certificate or Diploma program in Restoration of Natural Systems, or
- permission of the program.

Recommendation(s): Background in physical geography such as GEOG 103 or equivalent strongly recommended prior to ER 334.

**ER 335A** Units: 1.5

**Restoration of Fresh Water Aquatic Systems**
Theory and case studies of disturbances and restoration; character and processes of aquatic systems; types of natural aquatic systems; types of disturbance and their impact; restoration strategies for watersheds, riparian zones, streams, rivers, lakes and wetlands.

Prerequisite(s):
- Admission to Certificate or Diploma program in Restoration of Natural Systems, or
- permission of the program.

**ER 335B** Units: 1.5

**Restoration of Marine Aquatic Systems**
Provides students with an understanding of marine coastal systems and their restoration potential with a focus on ecological perspectives, with particular emphasis on the British Columbia/Washington coasts. Lectures that focus on broader scale marine ecosystem impacts and restoration issues will be supplemented by hands-on field exercises and research activities focusing on local issues.

Prerequisite(s):
- Admission to Certificate or Diploma program in Restoration of Natural Systems, or
- permission of the program.

Recommendation(s): Background in Biology strongly recommended prior to ER 335B.

**ER 336** Units: 1.5 Hours: 3-0-0

**Leadership Skills for Ecological Restoration**
Provides students with skills and tools for effective leadership in ecological restoration. Focuses on identification of personal leadership style, understanding of leadership roles in ecological restoration processes, group facilitation techniques, as well as strategies for effective outreach, communications, giving and receiving feedback, and dispute resolution.

Prerequisite(s):
- Admission to Certificate or Diploma program in Restoration of Natural Systems, or
- permission of the program.

**ER 338** Units: 0.5-1.5

**Special Topics in Environmental Restoration**
Selected topics in environmental restoration that address particular issues, industrial sectors or biogeoclimatic variation.

Note: May be taken more than once for credit in different topics with permission of the school.

Prerequisite(s):
- Admission to Certificate or Diploma program in Restoration of Natural Systems, or
- permission of the program.

**ER 352** Units: 1.5

**Non-Timber Forest Management and Sustainable Use in Major Forest Zones of BC**
An introduction to biogeoclimatic zones and natural disturbance regimes in BC in relation to the occurrence of important NTFP species and the ecosystems that sustain them. Topics include the impacts of current land use and resource extraction on NTFP occurrence and productivity; and the influence of disturbance classes, biogeoclimatic zones, and current ecological condition on the selection of appropriate NTFP management practices.

Prerequisite(s):
- Admission to Certificate or Diploma program in Restoration of Natural Systems, or
- permission of the program.

**ER 390** Units: 1.5

**Environmental Restoration Project**
In consultation with the Academic Administrator, students select a restoration project in an area of intended specialization. May involve a field research component. Final report required. Normally taken in the second or subsequent years of study.

Prerequisite(s): Admission to Certificate or Diploma program in Restoration of Natural Systems.

Grading: INP, standard grade.

**ER 400** Units: 0

**Seminar in Environmental Restoration**
Seminar and portfolio presentation in the final year, normally in the field of intended specialization. Seminar is on 390 project, portfolio is of major projects from 311, 312A and 312B plus one elective.

Prerequisite(s): ER 390.

Grading: INP, COM.

**ER 411** Units: 1.5

Also: ES 441

**Advanced Principles and Practice in Ecological Restoration**
An advanced investigation into the meaning, limits, and significance of ecological restoration, including how restoration is defined and why clear definitions are important; the role of historical knowledge in restoration; the changing character of restoration in a technological culture; ethical issues in restoration practice; participation and political process; cultural inclusion and the significance of restoration as a cultural mode; the international scope of restoration; and the paradox of design.

Note: Credit will be granted for only one of ER 411, ES 441, ES 482 (if taken in the same topic).

Prerequisite(s):
- If taken as ER 411, ER 311; and
- admission to Certificate or Diploma program in Restoration of Natural Systems, or
- permission of the program.
- If taken as ES 441, ES 341, or
- permission of the school.
ER 412 – Units: 1.5
Also: ES 471

Galiano Island Field Study
Compressed field format study focused on regenerative and restorative designs for ecological and social resilience. Offered in partnership with the Galiano Conservancy Association with field portion based on Galiano Island. Additional fees are necessary to support field expenses.
Note: Credit will be granted for only one of ER 412, ER 411 (if taken in the same topic), ES 441 (if taken in the same topic), ES 471.
Prerequisite(s):
• If taken as ER 412, ER 311, and admission to Certificate or Diploma program in Restoration of Natural Systems; or
• permission of the program.
• If taken as ES 471, ES 200 and ES 341, or permission of the school.

ES 200 – Units: 1.5
Introduction to Environmental Studies

ES 240 – Units: 1.5
Ecological Processes
An introduction to the discipline of ecology with a focus on understanding biotic processes as they relate to contemporary environmental challenges.
Recommendation(s): ES 200 recommended prior to or in conjunction with ES 240.

ES 250 – Units: 1.5
Also: ER 250
Directed Experiential Learning in Ecological Restoration
Conducted in relation to work or volunteer activities with a host organization identified by the student and approved by the RNS Academic Administrator or the Director of the School of Environmental Studies. Student engages in application and assessment of methods in ecological restoration. Must include at least 150 hours of applied activities. Assessment typically involves a reflective journal and final paper. Students are responsible for proposing an internship and arranging for a supervising instructor.
Notes:
• Credit will be granted for only one of ES 250, ER 250.
• May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s): Permission of the school.

ES 301 – Units: 1.5
Political Ecology
An introduction to the various socio-political and philosophical issues associated with the concept of a sustainable society. Emphasis is placed on the analysis of the complex relationships between social and biophysical systems. Examines how communities and environments are being impacted by the globalization of economies and cultures, technologies and ideologies, as well as responses from a variety of local, non-governmental and international agencies.
Prerequisite(s):
• ES 200 with a minimum grade of B-; and
• minimum second-year standing; or
• permission of the school.

ES 302 – Units: 1.5
Formerly: ES 402
Capitalism, Justice and Sustainability
Examines how the global capitalist economy is transforming ecosystems, and how social and environmental challenges are in turn beginning to transform capitalism. Economic alternatives will be examined in local and global contexts (e.g. the social economy, steady state economies, and indigenous economic practices).
Note: Credit will be granted for only one of ES 302, ES 402, ES 400A (if taken in Sep 1989 - Apr 1994), ES 402, ES 420.
Prerequisite(s): ES 200.

ES 312 – Units: 1.5
Also: ECON 381
Environmental Economics
An introduction to the economic analysis of environmental problems. In particular, an examination of policy interventions in cases where market activities result in socially undesirable impacts on the environment. Topics typically include: externalities; pollution control policy; climate change; public goods; time, uncertainty and the environment; and trade and the environment.
Note: Credit will be granted for only one of ES 312, ECON 330, ECON 381.
Prerequisite(s): ECON 103.

ES 314 – Units: 1.5
Also: PHIL 333
Philosophy and the Environment
A philosophical investigation of the moral and conceptual dimensions of environmental problems. Different philosophies of the relation between humans and nature will be compared.
Notes:
• Credit will be granted for only one of ES 314, PHIL 333.
• May not be counted towards upper-level requirements in Honours or Major programs in Philosophy.
Prerequisite(s):
• Minimum third-year standing; or
• permission of the school.

ES 320 – Units: 1.5
Also: BIOL 370
Conservation Biology
Diversity of organisms, functioning of ecosystems, and the consequential impact of human activities. Topics include the nature of biological diversity; extinction and its causes; habitat alteration and fragmentation; effects of exotic species; economic and ethical considerations; practical applications and analytical tools; and legal frameworks for conserving species and habitats.
Note: Credit will be granted for only one of ES 320, ES 318, ES 348, BIOL 370, ER 313.
Prerequisite(s):
• BIOL 186 or 190A; and
• BIOL 215 and BIOL 230; and
• STAT 255 or STAT 260.

ES 321 – Units: 1.5
Ethnoecology
Environmental knowledge systems of indigenous and other local peoples are increasingly recognized as having relevance in understanding and documenting biological diversity and conservation and in undertaking ecological restoration. The different aspects of local and traditional ecological knowledge and their relationships to western academic knowledge are reviewed and the issues and requirements for applying local knowledge in environmental sustainability are explored.
Prerequisite(s):
• ES 200 with a minimum grade of B-; and
• minimum second-year standing; or
• permission of the school.
ES 341  
Units: 1.5  
Hours: 3-0-0  
Formerly: also ER 311

Past, Present, and Future Ecologies  
Explores how ideas and practices about ecosystems and nature more generally have come to be in the early 21st century, how they are manifest in the present, and what trends will shape the future. Rapid environmental, ecological and cultural changes are forcing a reconsideration of how we understand nature and natural processes, and how to intervene responsibly in ecosystems. Themes are drawn from landscape and community ecology, systems ecology, ethnoecology, restoration ecology, and political ecology.

Note: Credit will be granted for only one of ES 341, ES 352, ES 400D (if taken in Sep-Dec 1995 or Jan-Apr 1996), ER 311 (if taken prior to May 2015).

Prerequisite(s):  
• ES 200 with a minimum grade of B- and ES 240, and  
• minimum second-year standing; or  
• permission of the school.

ES 344  
Units: 1.5  
Hours: 3-3-0

Also: BIOL 330

Study Design and Data Analysis  
An introduction to the statistical analysis of biological data, experimental design, and sampling design. Laboratories emphasize computer-based analysis of selected data sets as well as a major research project.

Note: Credit will be granted for only one of ES 344, ES 310, BIOL 330

Prerequisite(s):  
• STAT 255 or STAT 260, and  
• minimum third-year standing.

Pre- or Corequisite(s): BIOL 215.

Recommendation(s): STAT 256 recommended prior to ES 344.

ES 347  
Units: 1.5  
Hours: 3-0-0  

Ecogastronomy  
Examines how food decisions, from the personal to the global, influence human and planetary health. Students will develop a food literacy that extends beyond simple nutrition and incorporates cultural, ecological and socio-economic dimensions. A central question examined is: what constitutes “good” food?

Note: Credit will be granted for only one of ES 347, ES 382 (if taken in the same topic).

Prerequisite(s): ES 200.

ES 348  
Units: 1.5  
Hours: 3-0-0

Also: ER 313

Biodiversity and Conservation Biology  
Study of biological organisms and ecosystems with particular reference to mechanisms of change and human impacts on the environment. Focuses on: biodiversity (definition, assessment methods, loss, and evaluation); population biology (concepts and research methods); habitat loss, species extinction; exotic species and their impacts; and possibilities for human intervention in alleviating trends in species loss and ecosystem degradation.

Note: Credit will be granted for only one of ES 348, ES 318, ES 320, ER 313, BIOL 370.

Prerequisite(s):  
• ES 200, and  
• either BIOL 184 and BIOL 186, or BIOL 190A and BIOL 190B; or  
• permission of the school.

ES 361  
Units: 1.5  
Hours: 3-0-0  

The Biodiversity of British Columbia

An overview of British Columbia’s globally significant biodiversity. We will examine species distribution patterns, use, and conservation, including academic and government research and management. Lectures and field trips will include synthesis of patterns of biodiversity, management success and failure, and future biodiversity conservation and use in BC. Course goals include developing a deep understanding of the patterns of biodiversity in BC, explaining the reasons for these patterns, and identifying numerous species and their importance.

Prerequisite(s):  
• ES 200, and  
• ES 240 or BIOL 215.

ES 365  
Units: 1.5  
Hours: 3-0-0

Also: EOS 365

Climate and Society  
A survey of the climate system and its interaction with past, present, and future societies. Topics include: climate change and the onset of agriculture/domestication; climate change and the rise and fall of early civilizations, the anthropocene and global warming. The interplay between science, media, public relations and public policy will also be addressed.

Note: Credit will be granted for only one of ES 365, EOS 365.

Prerequisite(s):  
• ES 200, and  
• minimum third-year standing.  
• If taken as EOS 365,  
• minimum third-year standing.

ES 370  
Units: 1.5  
Hours: 1-2-0  

Intermediate Field Study  
Further field-based study of environmental problems and solutions, such as integrating watershed scale analysis and enhancements. Typically offered in a compressed format. Additional fees may be necessary to support field expenses.

Pre- or Corequisite(s): ES 200 and ES 270.

ES 378  
Units: 1.5  
Hours: 3-0-0  

Leadership Skills for Change

Builds the skills necessary to lead effective change in community-engaged settings. Emphasis on personal and group communication skills, decision-making techniques, presentation and facilitation skills, ethics and self-awareness for leadership. Includes case studies, examinations of theories of leadership and social movements, and practical experience.

Prerequisite(s): ES 200.

ES 380  
Units: 1.5  
Hours: 3-0-0*

Environmental Topics: Topics in Political Ecology

An in-depth systematic examination of specific environmental areas through seminars and projects; the development of appropriate responses to questions and problems within the selected areas; modes of interaction and communication with professional and community groups; application of theory to practice; qualitative vs. quantitative research methods. This course will be conducted as a seminar and may include a field trip for which a fee will be charged.

* Contact hours may vary depending on the topic.

Notes:  
• Credit will be granted for only one of ES 380, ES 300B.  
• May be taken more than once for credit in different topics to a maximum of 3 units.

Prerequisite(s): ES 200.

ES 381  
Units: 1.5  
Hours: 3-0-0*

Environmental Topics: Topics in Ethnoecology

An in-depth systematic examination of specific environmental areas through seminars and projects; the development of appropriate responses to questions and problems within the selected areas; modes of interaction and communication with professional and community groups; application of theory to practice; qualitative vs. quantitative research methods. This course will be conducted as a seminar and may include a field trip for which a fee will be charged.

* Contact hours may vary depending on the topic.

Notes:  
• Credit will be granted for only one of ES 381, ES 300B.  
• May be taken more than once for credit in different topics to a maximum of 3 units.

Prerequisite(s): ES 200.

ES 382  
Units: 1.5  
Hours: 3-0-0*

Environmental Topics: Topics in Ecological Restoration

An in-depth systematic examination of specific environmental areas through seminars and projects; the development of appropriate responses to questions and problems within the selected areas; modes of interaction and communication with professional and community groups; application of theory to practice; qualitative vs. quantitative research methods. This course will be conducted as a seminar and may include a field trip for which a fee will be charged.

* Contact hours may vary depending on the topic.

Notes:  
• Credit will be granted for only one of ES 382, ES 300B.  
• May be taken more than once for credit in different topics to a maximum of 3 units.

Prerequisite(s): ES 200.
### Course Listings

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ES 384</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Systems Theory: An Introduction to Natural and Social Systems</td>
</tr>
<tr>
<td><strong>ES 399</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Environmental Evidence in a Post-truth Era</td>
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<tr>
<td><strong>ES 403</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Field Course in Environmental Law and Sustainability</td>
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<tr>
<td><strong>ES 404</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Deep Roots, Trajectories of Environmental Thought</td>
</tr>
<tr>
<td><strong>ES 405</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Climate, Energy and Politics</td>
</tr>
<tr>
<td><strong>ES 406</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Alternative Economies for Social Change</td>
</tr>
<tr>
<td><strong>ES 407</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Mindfulness, Sustainability, and Social Change</td>
</tr>
<tr>
<td><strong>ES 408</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Visual Ecology, Seeing the Wild</td>
</tr>
<tr>
<td><strong>ES 409</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Food in Place, Skills for Change</td>
</tr>
<tr>
<td><strong>ES 415</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Integral Systems Theory: Philosophy and Practice</td>
</tr>
<tr>
<td><strong>ES 417</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Power, Difference, and Environmental Politics</td>
</tr>
<tr>
<td><strong>ES 419</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Green Legal Theory</td>
</tr>
<tr>
<td><strong>ES 421</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Ethnobotany: Plants and Human Cultures</td>
</tr>
<tr>
<td><strong>ES 423</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Traditional Systems of Land and Resource Management</td>
</tr>
<tr>
<td><strong>ES 425</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Flowering Plant Diversity</td>
</tr>
</tbody>
</table>

#### Prerequisite(s):
- **ES 200** and **ES 301**.

### Note:
- Credit will be granted for only one of **ES 384**, **ES 400D** (if taken in Sep 1989 - Apr 1990), **ES 414**.
- Credit will be granted for only one of **ES 405**, **ES 480** (if taken in the same topic).
- Credit will be granted for only one of **ES 407**, **ES 480** (if taken in the same topic).
- Credit will be granted for only one of **ES 408**, **ES 480** (if taken in the same topic).
- Credit will be granted for only one of **ES 409**, **ES 480** (if taken in the same topic).
- Credit will be granted for only one of **ES 415**, **ES 419**, **ES 450**, **ER 326**.
- Credit will be granted for only one of **ES 417**, **ES 400A** (if taken in Sep 1994 - Apr 1995), **ES 422**.
- Credit will be granted for only one of **ES 419**, **ES 450**, **LAW 328**.
- Credit will be granted for only one of **ES 421**, **ES 416**.
- Credit will be granted for only one of **ES 423**, **ES 353**, **ER 326**.
- Credit will be granted for only one of **ES 425**, **BIOC 449**, **BIOC 318**.
- Credit will be granted for only one of **ES 425**, **BIOC 184**, **BIOC 186**, and **minimum third-year standing**.

**Also:**
- **ER 326**
- **BIOC 449**
- **BIOC 318**
- **BIOC 324** recommended prior to **ES 425**.
ES 427  Units: 1.5  Hours: 3-0-0
Colonization, Nature, and the Making of British Columbia
Introduces students to the essential concepts and methods used by historians, archaeologists, anthropologists, geographers and others to analyze environmental change from prehistoric to modern times. Explores how cultural encounters between Euro-American and the Indigenous peoples of British Columbia played out on the physical landscape, focusing on the processes of dispossession and repossession that led to the creation of the space that became British Columbia.
Note: Credit will be granted for only one of ES 427, ES 481 (if taken in Jan-Apr 2005, Jan-Apr 2006, Sep-Dec 2007, Sep-Dec 2009, or Sep-Dec 2010). Prerequisite(s): ES 200 and ES 321.

ES 429  Units: 1.5  Hours: 3-3-0
Urban Ethnoecology
Cultural understandings of ecosystems and knowledge of interactions between human activities and human habitats in urban settings. Explores the ways city dwellers understand and interact with urban and peri-urban habitats. Surveys the intersections between people and place in cities from an ethnological perspective to inform and contribute to initiatives to create sustainable cities.
Note: Credit will be granted for only one of ES 429, ES 481 (if taken in the same topic). Prerequisite(s): ES 200, and minimum third-year standing.

ES 431  Units: 1.5  Hours: 3-0-0
History, Science and Culture of Wine
Documents the evolution of human civilization through the lens of wine, chronicles the transition from mysticism to industrial global commoditization. Workshops examine terroir, varietal, age, price, quality and value of viticulture and oenological traditions from around the world, and what "sustainability" means in this context.
Notes: Credit will be granted for only one of ES 431, ES 481 (if taken in the same topic). Mandatory workshop fee is required, due the first week of class. Prerequisite(s): ES 200, and minimum third-year standing; or permission of the school.

ES 433  Units: 1.5  Hours: 3-0-0
Introduction to Permaculture Design
The origins, theory and design methods of permaculture. Examines foundational texts that have influenced the development of permaculture, as well as contemporary permaculture texts. Critical examination of a range of designs and applications, including food systems, water systems, energy systems, appropriate technologies, place making, and the built environment.
Note: Credit will be granted for only one of ES 433, ES 481 (if taken in the same topic). Prerequisite(s): ES 200, and minimum third-year standing; or permission of the school.

ES 441  Units: 1.5  Hours: 3-0-0
Advanced Principles and Practice in Ecological Restoration
An advanced investigation into the meaning, limits, and significance of ecological restoration, including: how restoration is defined and why clear definitions are important; the role of historical knowledge in restoration; the changing character of restoration in a technological culture; ethical issues in restoration practice; participation and political process; cultural inclusion and the significance of restoration as a cultural mode; the international scope of restoration; and the paradox of design.
Note: Credit will be granted for only one of ES 441, ES 482 (if taken in the same topic), ER 411. Prerequisite(s): ES 341 and ER 311; or permission of the school.

ES 443  Units: 1.5  Hours: 3-0-0
Climate Change and Biodiversity
Examines the challenges a changing climate poses for ecology and conservation biology research and management, including ecological restoration. Particular attention is given to reading scientific papers, both those that present biodiversity pattern and process changes, as well as those that present management solutions to climate-driven biodiversity loss.
Note: Credit will be granted for only one of ES 443, ES 482 (if taken in the same topic). Prerequisite(s): All of ES 200, ES 240, ES 341.

ES 445  Units: 1.5  Hours: 3-0-0
Changing Nature
Discusses responsible intervention in ecosystems undergoing rapid change, covering a wide range of contemporary issues from barcoding biodiversity to rewilding, all with the aim of pushing against boundaries of received knowledge about preservation, conservation and restoration of nature.
Note: Credit will be granted for only one of ES 445, ES 482 (if taken in the same topic). Prerequisite(s): ES 200 and ES 341.

ES 446  Units: 1.5  Hours: 3-0-0
Sustainable Fisheries
A practical examination of sustainable fisheries from a variety of interdisciplinary perspectives. Examines sustainability issues for fisheries and aquaculture through an integrated study of fish biology/ecology, oceanography, hydrology, environmental impact assessment, natural resource management and environment and land use planning.
Note: Credit will be granted for only one of ES 446, ES 400C, ES 426 (if taken in Sep 1992 - Apr 1996). Prerequisite(s): ES 200, and ES 321 or ES 341.

ES 447  Units: 1.5  Hours: 3-0-0
Environmental Impact Assessment
Introduces the objectives, philosophy, concepts, methods and social implications of environmental impact assessment (EIA). A critical examination of EIA as an analytical tool in the context of resource management and public policy is undertaken. Examples will be drawn from B.C., Canada and other countries.
Note: Credit will be granted for only one of ES 461, ES 410, ES 400A (if taken prior to September 1989), GEOG 301, GEOG 391 (if taken in the same topic). Prerequisite(s): ES 200; and one of ES 301, ES 321, ES 341; or, if taken as GEOG 301, GEOG 209.

ES 470  Units: 1.5  Hours: 1-2-0
Advanced Field Study
Study of environmental problems and solutions intended to be more self-directed where the student identifies a problem and designs the process to implement solutions. Typically offered in a compressed format. Additional fees may be necessary to support field expenses.
Note: May be taken more than once for credit in different topics with permission of the school. Prerequisite(s): ES 200; and one of ES 301, ES 321, ES 341.

ES 471  Units: 1.5
Galiano Island Field Study
Compressed format field study focused on regenerative and restorative designs for ecological and social resilience. Offered in partnership with the Galiano Conservancy Association with field portion based on Galiano Island. Additional fees are necessary to support field expenses.
Note: Credit will be granted for only one of ES 471, ES 441 (if taken in the same topic), ER 412, ER 411 (if taken in the same topic). Prerequisite(s): If taken as ES 471, ES 200 and ES 341; or permission of the school. If taken as ER 412, ER 311; and admission to Certificate or Diploma program in Restoration of Natural Systems; or permission of the program.

ES 473  Units: 1.5  Hours: 3-0-0
Practical Permaculture Applications
An advanced practical study of permaculture principles in an intensive field-based setting. Focus on implementing concepts and practicing skills introduced in ES 433.
Notes: Credit will be granted for only one of ES 473, ES 470 (if taken in the same topic). Field course fees will be charged. Prerequisite(s): ES 433; and permission of the school.
### ES 480
**Units:** 1.5  **Hours:** 3-0-0*
**Advanced Environmental Topics in Political Ecology**
A focused, in-depth systematic examination of specific environmental areas through seminars and projects; the development of appropriate responses to questions and problems within the selected areas; modes of interaction and communication with professional and community groups; application of theory to practice; and qualitative vs. quantitative research methods. These courses will be conducted as seminars and may include a field trip for which a fee will be charged.

* Contact hours may vary depending on the topic.

**Note:** May be taken more than once for credit in different topics.

**Prerequisite(s):** ES 200 and ES 301.

### ES 481
**Units:** 1.5  **Hours:** 3-0-0*
**Advanced Environmental Topics in Ethnoecology**
A focused, in-depth systematic examination of specific environmental areas through seminars and projects; the development of appropriate responses to questions and problems within the selected areas; modes of interaction and communication with professional and community groups; application of theory to practice; and qualitative vs. quantitative research methods. These courses will be conducted as seminars and may include a field trip for which a fee will be charged.

* Contact hours may vary depending on the topic.

**Note:** May be taken more than once for credit in different topics.

**Prerequisite(s):** ES 200 and ES 321.

### ES 482
**Units:** 1.5  **Hours:** 3-0-0*
**Advanced Environmental Topics in Ecological Restoration**
A focused, in-depth systematic examination of specific environmental areas through seminars and projects; the development of appropriate responses to questions and problems within the selected areas; modes of interaction and communication with professional and community groups; application of theory to practice; and qualitative vs. quantitative research methods. These courses will be conducted as seminars and may include a field trip for which a fee will be charged.

* Contact hours may vary depending on the topic.

**Note:** May be taken more than once for credit in different topics.

**Prerequisite(s):** ES 200 and ES 341.

### ES 490
**Units:** 1.5-3.0
**Directed Studies**
Individual studies on approved environmental topics undertaken by students in consultation with faculty members. Projects will be supervised by one or more faculty members designated by the Director.

**Note:** May be taken more than once for credit in different topics to a maximum of 3 units.

**Prerequisite(s):**
- ES 200, and
- minimum sessional GPA of 6.5 in the previous session; and
- minimum fourth-year standing; and
- declared Major or Minor in Environmental Studies; or
- permission of the school.

### EUS
#### European Studies Interdisciplinary Programs

<table>
<thead>
<tr>
<th>Course</th>
<th><strong>Units:</strong> 1.5</th>
<th><strong>Hours:</strong> 3-0-0</th>
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<tbody>
<tr>
<td><strong>EUS 100</strong></td>
<td>Introduction to European Studies</td>
<td>An interdisciplinary, team-taught study focusing on the central issues of contemporary European Integration. Introduces key issues and thinkers associated with the study of European Integration.</td>
</tr>
<tr>
<td><strong>EUS 200</strong></td>
<td>Introduction to European Cultures and Identities</td>
<td>Explores the cultures and interconnectedness of national identities in Europe from the medieval period until the present. An interdisciplinary, team-taught approach will provide students with a comprehensive understanding of European cultures through the study of art history, literature, film, music, folklore, geography and philosophical thought.</td>
</tr>
<tr>
<td><strong>EUS 300</strong></td>
<td>European Integration: Socio-Economic and Political Developments</td>
<td>A historical background to and a contemporary account of modern European politics and society. The approach is comparative, concentrating on similarities and differences between selected European countries. Crucial social cleavages, selected policy fields, traditions in political culture and institutional settings are studied from a comparative and genuinely European perspective.</td>
</tr>
</tbody>
</table>

**Note:** May be taken more than once for credit in different topics with permission of the program.

<table>
<thead>
<tr>
<th>Course</th>
<th><strong>Units:</strong> 1.5</th>
<th><strong>Hours:</strong> 3-0-0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EUS 301</strong></td>
<td>Cultural and Intellectual Systems and Developments in Europe</td>
<td>Critical aspects of European intellectual and cultural traditions both in a historic and contemporary perspective. Covers a wide range of issues related to the rich European history of ideas and artistic production encompassing the fields of philosophy, literature and arts.</td>
</tr>
</tbody>
</table>

**Note:** May be taken more than once for credit in different topics with permission of the program.

<table>
<thead>
<tr>
<th>Course</th>
<th><strong>Units:</strong> 1.5</th>
<th><strong>Hours:</strong> 3-0-0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EUS 390A</strong></td>
<td>Directed Studies in Europe I</td>
<td>Constitutes the academic element of the European Union Field School (&quot;EU Study Tour&quot;) offered by the Network for European Studies Canada, or another Study Tour/Field School with relevance to European Studies that is approved by the Program. The course content will require course work pre-departure, during the Tour and post-travel. Course content must be approved in advance by the Program.</td>
</tr>
</tbody>
</table>

**Notes:**
- May be taken more than once for credit in different topics to a maximum of 3.0 units.
- Satisfies the experiential requirement for students completing a Major or Honours in Political Science with a Concentration in European Studies.

**Prerequisite(s):**
- Admission to the Field School; and
- permission of the Program.

### EUS 390B
**Units:** 0
**Directed Studies in Europe II**
Constitutes the non-academic pre-departure preparation for the EU Field School, which is offered by the Network for European Studies (Canada) (the “Network”) and is administered through the University of Victoria. Successful completion of this course is a requirement for participation in the EU Field School.

**Notes:**
- Only accessible for students who are enrolled simultaneously at their home university in an EU Field School course, which has been approved by the Network and the University of Victoria.
- Requires students to become visiting student at UVic on a letter of permission.

**Prerequisite(s):** Admission to the Field School.

**Grading:** COM, N, F.

<table>
<thead>
<tr>
<th>Course</th>
<th><strong>Units:</strong> 1.5</th>
<th><strong>Hours:</strong> 3-0-0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EUS 490</strong></td>
<td>Special Topics in European Studies</td>
<td>Directed reading and/or a research project in European Studies under the supervision of a Faculty Member.</td>
</tr>
</tbody>
</table>

**Note:** May be taken more than once for credit in different topics with permission of the program.

<table>
<thead>
<tr>
<th>Course</th>
<th><strong>Units:</strong> 1.5</th>
<th><strong>Hours:</strong> 3-0-0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EUS 495</strong></td>
<td>Directed Experiential Learning in European Studies</td>
<td>Individual examination of analytical issues in European Studies in relation to work, internship, volunteer activities, or other pre-approved activities under the guidance of a faculty member. Student and instructor must have agreed on learning objectives and methods of assessment before experiential learning opportunity begins. Learning opportunity must be distinct from any previous or concurrent Co-op work-term placements. Must involve a minimum of 200 hours of the activity per 1.5 units of credit.</td>
</tr>
</tbody>
</table>

**Note:** May be taken more than once for credit in different topics with permission of the Program.

**Prerequisite(s):** Permission of the Program.

### FA
**Fine Arts Interdisciplinary Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th><strong>Units:</strong> 1.5-3.0</th>
<th><strong>Hours:</strong> 2-1-0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FA 100</strong></td>
<td>Special Topics in Fine Arts</td>
<td>A multi-disciplinary investigation into various aspects of the arts. Focus may vary from year to year.</td>
</tr>
</tbody>
</table>

**Note:** May be taken more than once for credit in different topics with permission of the faculty to a maximum of 6 units.

<table>
<thead>
<tr>
<th>Course</th>
<th><strong>Units:</strong> 1.5</th>
<th><strong>Hours:</strong> 2-0-1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FA 101</strong></td>
<td>Creative Being</td>
<td>An exploration of the diversity within creative practice and theory that builds bridges across disciplines and challenges students' understanding of the creative process.</td>
</tr>
</tbody>
</table>

**Notes:**
- Credit will be granted for only one of FA 101, FA 100 (if taken in the same topic).
FA 200 - FRAN 200

FA 200  Units: 1.5  Hours: 2-1-0
Special Topics in Fine Arts
A multi-disciplinary investigation into various aspects of the arts. Focus may vary from year to year.
Note: May be taken more than once for credit in different topics with permission of the faculty to a maximum of 3 units.

FA 225  Units: 3.0  Hours: 3-0-0
Also: ACAN 225
Introduction to the Arts of Canada
An interdisciplinary examination of Canada's cultural identity and of current issues facing the arts in both French- and English-speaking Canada. Topics to be considered include aboriginal arts, theatre, history in art, visual and literary arts, music, multiculturalism, broadcasting and cultural policies.
Note: Credit will be granted for only one of FA 225, ACAN 225.

FA 245  Units: 1.5 or 3.0  Hours: 3-0-0
The Arts and Technology I
An introductory course focusing on ideas central to the interrelationship between various arts and technologies.
Note: May be taken more than once for credit in different topics to a maximum of 3 units.

FA 300  Units: 1.5  Hours: 3-0-0
Interdisciplinary Studies
Emphasizes an interdisciplinary approach to contemporary artistic concerns. In each year, coursework will focus on a particular issue.
Note: May be taken more than once for credit in different topics with permission of the faculty to a maximum of 3 units.
Prerequisite(s):
- Minimum second-year standing;
- additional prerequisites set by faculty depending upon topic.

FA 305  Units: 1.5 or 3.0  Hours: 3-0-0
Theory and Practice of Film and Video Direction
Introduction to basic narrative patterns in film and video with an emphasis on image systems, plot and character, sound, and scene construction. Development and translation of a script into pictures using digital cameras and video editing software.
Prerequisite(s): Minimum second-year standing.

FA 335  Units: 1.5 or 3.0  Hours: 3-0-0
Popular Culture
An interdisciplinary examination of the popular arts and their place in society. The topics for examination will vary in different years and sections.
Note: May be taken more than once for credit in different topics.
Prerequisite(s): Minimum second-year standing.

FA 346  Units: 1.5 or 3.0  Hours: 3-0-0
The Arts and Technology II
A practice-oriented seminar, focusing on the use of computer technology in the arts. Areas for consideration may vary from year to year.
Note: May be taken more than once for credit in different topics with permission of the faculty to a maximum of 6 units.
Prerequisite(s): Minimum second-year standing.

FA 356  Units: 1.5 or 3.0  Hours: 3-0-0
Management Skills for the Artist
This is a practical course designed to instruct students in fundamental management skills which will be of use for those anticipating careers as artists. Topics will include presentation techniques, fundraising methods, accounting procedures, grant applications, media relations and event planning.
Prerequisite(s):
- Minimum second-year standing, or
- permission of the faculty.

FA 360  Units: 1.5 or 3.0  Hours: 3-0-0
Theoretical and Critical Issues in the Arts
A special topics course that examines critical and theoretical issues as they relate to the visual, literary and performing arts. Areas for consideration will vary from year to year.
Note: May be taken more than once for credit in different topics to a maximum of 3 units.

FRAN 100  Units: 3.0  Hours: 6-1-0
Formerly: FREN 100
Intensive French I
Intensive spoken and written French.
Notes:
- Credit will be granted for only one of FRAN 100, FREN 100, FREN 102, FREN 103, FREN 105.
- Students must register in one of the lab sections.
- Intended for beginners. Next course in sequence: FRAN 120.
- Not open to students with French 11 or equivalent in the last three years.
- Not open to students with French 12.

FRAN 105  Units: 3.0  Hours: 6-1-0
Formerly: FREN 155
Intensive French II
Instruction in written and oral French. Regular oral practice and short written assignments.
Notes:
- Credit will be granted for only one of FRAN 105, FREN 105, FREN 107, FREN 107.
- Students must register in one of the lab sections.
- Normal entry point for students with French Immersion to Grade 7.
- Not open to students with French 11 or equivalent in the last three years.
- Not open to students with French 12.

FRAN 120  Units: 3.0  Hours: 6-1-0
Formerly: FREN 106, FREN 107
Intensive French II
Instruction in written and oral French. Regular oral practice and short written assignments.
Notes:
- Credit will be granted for only one of FRAN 120, FREN 106, FREN 107, FREN 160.
- Students must register in one of the lab sections.
- Normal entry point for students with French 11. Not open to students with French 12 in the last three years, or French Immersion to Grade 7.
Prerequisite(s):
- One of FRAN 100, French 11, FREN 100, or
- permission of the department.

FRAN 150  Units: 1.5  Hours: 3-1-0
Formerly: FREN 150
Elementary Oral French
Develops listening comprehension. Oral expression practiced in lab. Introduces students to varied oral discourses.
Notes:
- Credit will be granted for only one of FRAN 150, FREN 150.
- Students must register in one of the lab sections.
- Intended for students with French 12, FRAN 120 or equivalent. May be taken concurrently with FRAN 160.
- Not open to students with three years of French immersion at any time, francophone students, or students who have spent at least one year in a francophone environment.
Prerequisite(s): French 12 or FRAN 120.

FRAN 160  Units: 1.5  Hours: 3-1-0
Former part of FREN 155
Words in Context
Expands vocabulary through the exploration of authentic oral and written texts, dictionaries and electronic resource materials. Oral practice in class and extra practice online.
Notes:
- Not open for credit to students with FREN 155, FREN 181, FREN 182, or immersion beyond Grade 9.
- Normal entry point for students with French 12.
- Students must register in one of the lab sections.
Prerequisite(s):
- One of FRAN 120, French 12, FREN 107; or
- permission of the department.

FRAN 180  Units: 3.0  Hours: 6-0-0
Formerly: FREN 175
Intensive French III
Development of skills in French with emphasis on writing. Hybrid delivery composed of in-class writing workshops and online follow-up exercises.
Notes:
- Credit will be granted for only one of FRAN 180, FREN 175, FREN 180, FREN 181, FREN 182, FREN 190, FREN 195.
- Normal entry point for student with French Immersion to Grade 10 or higher.
Prerequisite(s):
- FRAN 160, or
- French Immersion to Grade 10 or higher; or
- permission of the department.

FRAN 200  Units: 1.5  Hours: 3-0-0
Introduction to French Linguistics
The subject matter of linguistics as it relates to the French language. Overview of word and sentence structures and meaning.
Notes:
- Credit will be granted for only one of FRAN 200, FREN 202, FREN 202A, FREN 208.
- Previous course in sequence: FRAN 180. Next course in sequence: FRAN 275. May be taken concurrently with other 200-level courses including FRAN 275.
Prerequisite(s):
- FRAN 180, or
- permission of the department.
FRAN 220  
Units: 1.5  
Hours: 3-0-0  
Formerly: FREN 220  
French Phonetics  
The theory and practice of French pronunciation, corrective phonetics, phonetic transcription, intonation, accentuation, syllabification, elision and liaison; training in reading aloud. Individual practice in the CALL Centre will be assigned. For francophone students, a research paper will be substituted for the oral examination.

Notes:  
• Credit will be granted for only one of FRAN 220, FREN 220.  
• Enrolment limited.

Prerequisite(s): One of FRAN 180, FREN 175, FREN 181, FREN 182, FREN 185, FREN 190, FREN 195.

FRAN 250  
Units: 1.5  
Experiential Learning  
The student will present a portfolio, in a form approved in advance, based on the experience of living in a francophone environment for a period of approximately six months.

Note: Open only to students who are completing the experience requirement for a degree in French.

Prerequisite(s): Permission of the department.

Grading: COM, N, F.

FRAN 265  
Units: 1.5  
Hours: 3-0-0  
Formerly: FRAN 165  
French Connections  
Various aspects of French today as seen through such media as television, comics, song, radio and the Internet.

Notes:  
• Credit will be granted for only one of FRAN 265, FREN 165.  
• Students are expected to have the ability to understand spoken and written French.

FRAN 275  
Units: 1.5  
Hours: 3-0-0  
Formerly: FREN 295  
Writing in French I  
Practice of writing and reading in a variety of forms and the study of relevant models.

Note: Credit will be granted for only one of FRAN 275, FREN 292, FREN 295.

Pre- or Corequisite(s): FRAN 200.

FRAN 280  
Units: 1.5  
Hours: 3-0-0  
Literary Texts I  
A selection of major texts written in French from different traditions, times and genres, illustrating the changing notion of literariness.

Notes:  
• Credit will be granted for only one of FRAN 280, FREN 286, FREN 287, FREN 288.  
• Students with one of these FREN courses should take FREN 290.

Prerequisite(s):  
• FRAN 180; or  
• permission of the department.

FRAN 300  
Units: 3.0  
Hours: 3-0-0  
Formerly: FREN 300  
French Reading Course  
Presentation of basic sentence structures and vocabulary, and reading of texts in order to prepare students to acquire a reasonable reading comprehension of scientific and scholarly works in French. Primarily intended for students who have little knowledge of French and are enrolled in university departments requiring a reading knowledge of a second language.

Notes:  
• Credit will be granted for only one of FRAN 300, FREN 300.  
• Not open to students with credit in, or registered in, FRAN 180 or higher.  
• Students with no previous French should take at least FRAN 100 before undertaking FRAN 300.  
• Credit may be obtained for both FRAN 300 and any other FRAN course.

Prerequisite(s):  
• Minimum third-year standing or admission to a graduate program; or  
• permission of the department.

Grading: COM, N, F.

FRAN 310  
Units: 1.5  
Hours: 3-0-0  
Formerly: FRAN 290  
Literary Texts II  
A close reading of literary texts written in French. Analytical and critical approaches to texts will vary.

Note: Credit will be granted for only one of FRAN 310, FREN 290.

FRAN 325  
Units: 1.5  
Hours: 3-0-0  
Studies in the Cultures of the French-speaking World (in English)  
Study of cultures in the French-speaking world using a variety of sources.

Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 6 units.

FRAN 335  
Units: 1.5  
Hours: 3-0-0  
Studies in Cinema and Literature of the French-speaking World (in English)  
Cinema and the relationship of cinema with literature and culture in the French-speaking world.

Notes:  
• Credit will be granted for only one of FRAN 335, FREN 389A (if taken in the same topic), FREN 389B (if taken in the same topic), FREN 389C (if taken in the same topic), FREN 389D (if taken in the same topic), FREN 389E (if taken in the same topic).  
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

FRAN 340  
Units: 1.5  
Hours: 3-0-0  
Studies in the Literatures or Language of the French-speaking World (in English)  
Literature or Language of the French-speaking world.

Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

Prerequisite(s):  
• Minimum third-year standing.  
• If taken in French,  
• FRAN 275 with a minimum grade of C+; or  
• permission of the department.

FRAN 350  
Units: 1.5  
Hours: 4-0-0  
Advanced Oral French  
Increase of oral proficiency in French and development of comprehension of oral and written French.

Notes:  
• Credit will be granted for only one of FRAN 350, FREN 350.  
• Required for a concentration in French in the Faculty of Education.  
• Not open to francophone students and normally not open to students who have spent at least one year in a francophone environment. Enrolment limited.

Prerequisite(s):  
• FRAN 275 with a minimum grade of C+; or  
• permission of the department.

FRAN 360  
Units: 1.5-3.0  
French Field School Seminar  
An advanced, field-based exploration of the literatures, cultures and expressive forms in the French-speaking world. Areas of investigation may, depending on the year, be selected in Europe, North America, Africa or the Caribbean. An additional field trip fee may be applied.

Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 6 units.

Prerequisite(s): Permission of the department.

Grading: COM, N, F.

FRAN 375  
Units: 1.5  
Hours: 3-0-0  
Formerly: FREN 302A  
Writing in French II  
Written exercises in vocabulary and grammar, comparative stylistics, compositions.

Notes:  
• Credit will be granted for only one of FRAN 375, FREN 302, FREN 302A.  
• Students with the FREN courses are directed to FREN 395 or FREN 400.

Prerequisite(s):  
• FRAN 275 with a minimum grade of C+; or  
• permission of the department.
FRAN 380  Units: 1.5  Hours: 3-0-0
Formerly: FREN 372
French Morphology
Word formation and word markers, etymology, prefixes and suffixes, gender, number, person, grammatical categories.
Note: Credit will be granted for only one of FRAN 380, FREN 372.
Prerequisite(s):
- FRAN 275 with a minimum grade of C+; and
- one of FRAN 200, FRAN 220, 1.5 units of 100- or 200-level LING course; or
- permission of the department.

FRAN 385  Units: 1.5  Hours: 3-0-0
Formerly: FREN 374
French Syntax and Semantics
Verbal and phrase constructions, the question of agreement; shifts in meaning; grammatical exceptions.
Note: Credit will be granted for only one of FRAN 385, FREN 374.
Prerequisite(s):
- FRAN 275 with a minimum grade of C+; and
- one of FRAN 200, FRAN 220, 1.5 units of 100- or 200-level LING course; or
- permission of the department.

FRAN 390  Units: 1.5  Hours: 3-0-0
Formerly: FREN 390
Critical Methods
Discovering meaning in literature; how to read a literary text. Practical introduction to various methods of analyzing literary texts; a survey of modern literary theory.
Note: Credit will be granted for only one of FRAN 390, FREN 390.
Prerequisite(s):
- FRAN 275 with a minimum grade of C+.

Pre- or Corequisite(s):
- FRAN 310; or
- permission of the department.

FRAN 400  Units: 1.5  Hours: 3-0-0
Formerly: FREN 429
Advanced Studies in French Linguistics
Intensive study of a selected topic in French linguistics or applied linguistics.
Notes:
- Credit will be granted for only one of FRAN 400, FREN 420 (if taken in the same topic), FREN 429 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.
Pre- or Corequisite(s):
- FRAN 375; and
- FRAN 380 or FRAN 385; or
- permission of the department.

FRAN 401  Units: 1.5  Hours: 3-0-0
Formerly: FREN 401
French Language and Culture
Focus on written expression through composition, textual analysis and commentaire composé, with attention paid to both literary and informal usage.
Note: Credit will be granted for only one of FRAN 401, FREN 402.
Prerequisite(s):
- FRAN 280 and FRAN 375; or
- permission of the department.

FRAN 402  Units: 1.5  Hours: 3-0-0
Formerly: FREN 402
An Advanced Language Course in Modern French Usage
Focus on written expression through composition, textual analysis and commentaire composé, with attention paid to both literary and informal usage.
Note: Credit will be granted for only one of FRAN 402, FREN 402.
Prerequisite(s):
- FRAN 280 and FRAN 375; or
- permission of the department.

FRAN 404  Units: 1.5  Hours: 3-0-0
Formerly: FREN 425A
History of French
The evolution of the French language from the eighth century to the present day. Through the study of representative literary and non-literary texts in the original, in relation to historical circumstances, students acquire familiarity with major social and cultural events and become aware of the diversity and the mobility of the language.
Note: Credit will be granted for only one of FRAN 404, FREN 425A.
Prerequisite(s):
- FRAN 375; or
- permission of the department.

FRAN 405  Units: 1.5  Hours: 3-0-0
Formerly: FREN 425B
Varieties of French
Note: Credit will be granted for only one of FRAN 405, FREN 425B.
Prerequisite(s):
- FRAN 375; or
- permission of the department.

FRAN 406  Units: 1.5  Hours: 3-0-0
Formerly: FREN 426A, FREN 426B
Translation Studies
A comparative study of the characteristics of French and English expression and how they pertain to the problems of translation; intensive practice in translation from English to French and French to English.
Note: Credit will be granted for only one of FRAN 406, FREN 426 (if taken in the same topic), FREN 426A (if taken in the same topic), FREN 426B (if taken in the same topic).
Prerequisite(s):
- FRAN 375 with a minimum grade of B; and
- Academic Writing Requirement satisfied; or
- permission of the department.

FRAN 410  Units: 1.5  Hours: 3-0-0
Studies in Québec or French-Canadian Literature
Study of major texts: genres, periods, gender studies, theoretical approaches, cultural and historical contexts.
Notes:
- Credit will be granted for only one of FRAN 410, FREN 480, FREN 482, FREN 484, FREN 485 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.
Pre- or Corequisite(s):
- FRAN 310; or
- permission of the department.

FRAN 411  Units: 1.5  Hours: 3-0-0
Formerly: FREN 480
The French-Canadian Novel from the Origins to the Modern Period
A survey of the French-Canadian novel with special emphasis on the first half of the 20th century.
Note: Credit will be granted for only one of FRAN 411, FREN 480.
Prerequisite(s):
- FRAN 275 with a minimum grade of C+.
Pre- or Corequisite(s):
- FRAN 310; or
- permission of the department.

FRAN 412  Units: 1.5  Hours: 3-0-0
Formerly: FREN 482
The French-Canadian Novel 1960-1995
The French-Canadian novel in the second half of the 20th century, in particular la nouvelle écrite since 1960.
Note: Credit will be granted for only one of FRAN 412, FREN 482.
Prerequisite(s):
- FRAN 275 with a minimum grade of C+.
Pre- or Corequisite(s):
- FRAN 310; or
- permission of the department.

FRAN 415  Units: 1.5  Hours: 3-0-0
Formerly: FREN 485
French-Canadian Poetry
French-Canadian poetry from Emilie Nelligan to the present. Emphasis on Alain Grandbois, St-Denys-Garneau, Anne Hébert, Rina Lasnier, Gaston Miron, Roland Gigliére, Michel Beaulieu, Nicole Brossard.
Note: Credit will be granted for only one of FRAN 415, FREN 485.
Prerequisite(s):
- FRAN 310; or
- permission of the department.
FRAN 417  Units: 1.5  Hours: 3-0-0
Also: ENGL 458
Formerly: FREN 487
Comparative Studies in Contemporary French and English Canadian Literature
An introduction to the comparative study of contemporary Canadian literature in both official languages. Classes will be conducted in English, readings and assignments can be done in either language. However, students taking a Combined Major in English and French (Canadian Literature) must read the texts in their original. May include works by George Bowering, Daphne Marlatt, Lola Lemire Tostevin, Jacques Poulin, Tomson Highway and Nicolas Dickner. Students enrolled in FRAN 417 must submit all written assignments in French.  
Note: Credit will be granted for only one of FRAN 417, FREN 487, ENGL 458.  
Prerequisite(s): FRAN 275 with a minimum grade of C+.  
Pre- or Corequisite(s):  
•  FRAN 310; or  
•  permission of the department.

FRAN 420  Units: 1.5  Hours: 3-0-0
Studies in Francophone Literatures and Cultures
Topics in francophone African, Caribbean and Indian Ocean novels, poetry and drama.  
Notes:  
•  Credit will be granted for only one of FRAN 420, FREN 477A (if taken in the same topic), FREN 477B (if taken in the same topic).  
•  May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.  
Prerequisite(s): FRAN 275 with a minimum grade of C+.  
Pre- or Corequisite(s):  
•  FRAN 310; or  
•  permission of the department.

FRAN 422  Units: 1.5  Hours: 3-0-0
Formerly: FREN 477A
Contemporary Francophone African Novel
Note: Credit will be granted for only one of FRAN 422, FREN 477, FREN 477A.  
Prerequisite(s): FRAN 275 with a minimum grade of C+.  
Pre- or Corequisite(s):  
•  FRAN 310; or  
•  permission of the department.

FRAN 423  Units: 1.5  Hours: 3-0-0
Formerly: FREN 477B
Contemporary Francophone Caribbean Novel
The Francophone Caribbean novel in the second half of the 20th century and the first part of the 21st century. Screening of Caribbean films to highlight issues in the novels selected.  
Note: Credit will be granted for only one of FRAN 423, FREN 477, FREN 477B.  
Prerequisite(s): FRAN 275 with a minimum grade of C+.  
Pre- or Corequisite(s):  
•  FRAN 310; or  
•  permission of the department.

FRAN 430  Units: 1.5  Hours: 3-0-0
Studies in French Literatures and Culture before 1800
The study of texts and traditions linked by genre, period, movement or theme, within their historical and cultural contexts.  
Notes:  
•  Credit will be granted for only one of FRAN 430, FREN 440, FREN 441, FREN 444, FREN 446B, FREN 446E, FREN 448, FREN 450A, FREN 450B, FREN 451, FREN 452, FREN 455B (if taken in the same topic).  
•  May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.  
Prerequisite(s): FRAN 275 with a minimum grade of C+.  
Pre- or Corequisite(s):  
•  FRAN 310; or  
•  permission of the department.

FRAN 431  Units: 1.5  Hours: 3-0-0
Formerly: FREN 440
Medieval Literature
Study of a number of medieval literary works in the original. Students will acquire some familiarity with medieval French and of the principal literary genres of the period. History and art will be used to give a context to the literary works.  
Note: Credit will be granted for only one of FRAN 431, FREN 440, FREN 441.  
Prerequisite(s): FRAN 275 with a minimum grade of C+.  
Pre- or Corequisite(s):  
•  FRAN 310; or  
•  permission of the department.

FRAN 434  Units: 1.5  Hours: 3-0-0
Formerly: FREN 444
Medieval and Renaissance Theatre
Medieval and Renaissance plays in the original. Through a selection of dramatic texts, students will explore the conditions of theatrical representations before theatres were built in stone. Farces, miracles, sotties and comedies will be placed in the context of religious holidays, Carnival, or school plays.  
Note: Credit will be granted for only one of FRAN 434, FREN 444.  
Prerequisite(s): FRAN 275 with a minimum grade of C+.  
Pre- or Corequisite(s):  
•  FRAN 310; or  
•  permission of the department.

FRAN 435  Units: 1.5  Hours: 3-0-0
Formerly: FREN 446A
Renaissance Poetry
Through a selection of poems of the late medieval and Renaissance periods, students will be acquainted with the terminology of versification, the major poetic genres of the period and some great figures of the French Renaissance.  
Note: Credit will be granted for only one of FRAN 435, FREN 446A.  
Prerequisite(s): FRAN 275 with a minimum grade of C+.  
Pre- or Corequisite(s):  
•  FRAN 310; or  
•  permission of the department.

FRAN 436  Units: 1.5  Hours: 3-0-0
Formerly: FREN 448
Renaissance Prose
Love, betrayal, justice, honour and humanism: through a selection of short stories, chapters from novels and essays, students will study the emergence of new ideas about the world and about the humanity of humankind.  
Note: Credit will be granted for only one of FRAN 436, FREN 448.  
Prerequisite(s): FRAN 275 with a minimum grade of C+.  
Pre- or Corequisite(s):  
•  FRAN 310; or  
•  permission of the department.

FRAN 441  Units: 1.5  Hours: 3-0-0
Formerly: FREN 455B
Comedy in the 17th and 18th Centuries
A literary study of comedy in France in the classical period, with special emphasis on the works of Molière, Marivaux and Beaumarchais.  
Note: Credit will be granted for only one of FRAN 441, FREN 455B.  
Prerequisite(s): FRAN 275 with a minimum grade of C+.  
Pre- or Corequisite(s):  
•  FRAN 310; or  
•  permission of the department.

FRAN 444  Units: 1.5  Hours: 3-0-0
18th-Century French Literature and Culture
The study of texts and images of 18th-century France, with emphasis on the changing roles of women, social class and family dynamics under the influence of developments in philosophy, art and politics.  
Notes:  
•  Credit will be granted for only one of FRAN 444, FREN 451, FREN 452, FREN 455B.  
•  Students with credit for FREN 451, FREN 452, FREN 455B must consult the department to determine whether they may obtain a waiver to take this course for credit.  
Prerequisite(s): FRAN 275 with a minimum grade of C+.  
Pre- or Corequisite(s):  
•  FRAN 310; or  
•  permission of the department.

FRAN 446  Units: 1.5  Hours: 3-0-0
Formerly: FREN 451
The Enlightenment
Principal literary works of the philosophes of the 18th century.  
Note: Credit will be granted for only one of FRAN 446, FREN 451.  
Prerequisite(s): FRAN 275 with a minimum grade of C+.  
Pre- or Corequisite(s):  
•  FRAN 310; or  
•  permission of the department.
FRAN 450  Units: 1.5  Hours: 3-0-0  
Studies in French Literature and Culture after 1800
A selection of major texts linked by genre, period, movement, or theme, studied within their historical and cultural context.

Notes:
• Credit will be granted for only one of FRAN 450, FREN 446D (if taken in the same topic), FREN 460A (if taken in the same topic), FREN 460B (if taken in the same topic), FREN 462A (if taken in the same topic), FREN 462B (if taken in the same topic), FREN 462C (if taken in the same topic), FREN 466 (if taken in the same topic), FREN 470 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.

Prerequisite(s): FRAN 275 with a minimum grade of C+.
Pre- or Corequisite(s):
• FRAN 310; or
• permission of the department.

FRAN 453  Units: 1.5  Hours: 3-0-0  
Decadence and Symbolism
A look at the new aesthetic sensibilities in different literary and artistic genres after the Second Republic (1848), including movements such as Decadence and Symbolism.

Notes:
• Credit will be granted for only one of FRAN 453, FREN 446D (if taken in the same topic), FREN 460A (if taken in the same topic), FREN 460B (if taken in the same topic), FREN 462A (if taken in the same topic), FREN 462B (if taken in the same topic), FREN 462C (if taken in the same topic), FREN 466 (if taken in the same topic), FREN 470 must consult the department to determine whether they may obtain a waiver to take this course for credit.

Prerequisite(s): FRAN 275 with a minimum grade of C+.
Pre- or Corequisite(s):
• FRAN 310; or
• permission of the department.

FRAN 455  Units: 1.5  Hours: 3-0-0  
Dada and Surrealism: the End of the Novel
The rise of the greatest artistic movement of the 1920s and 1930s in France and Europe out of the ashes of WWI.

Notes:
• Credit will be granted for only one of FRAN 455, FREN 446D (if taken in the same topic), FREN 460A (if taken in the same topic), FREN 460B (if taken in the same topic), FREN 462A (if taken in the same topic), FREN 462B (if taken in the same topic), FREN 462C (if taken in the same topic), FREN 470 must consult the department to determine whether they may obtain a waiver to take this course for credit.

Prerequisite(s): FRAN 275 with a minimum grade of C+.
Pre- or Corequisite(s):
• FRAN 310; or
• permission of the department.

FRAN 456  Units: 1.5  Hours: 3-0-0  
20th-Century French Theatre
The distinctive characteristics of modern theatre and of major theatrical movements; plays illustrating different themes and theatrical styles.

Note: Credit will be granted for only one of FRAN 456, FREN 470.

Prerequisite(s):
• FRAN 275 with a minimum grade of C+.
Pre- or Corequisite(s):
• FRAN 310; or
• permission of the department.

FRAN 457  Units: 1.5  Hours: 3-0-0  
Breaking New Ground after Existentialism
The various faces of fiction, from the "Nouveau Roman" to postmodernism in French contemporary literature (1945 to today).

Notes:
• Credit will be granted for only one of FRAN 457, FREN 462A, FREN 462B, FREN 462C, FREN 470.
• Students with credit for FREN 462A, FREN 462B, FREN 462C, FREN 470 must consult the department to determine whether they may obtain a waiver to take this course for credit.

Prerequisite(s): FRAN 275 with a minimum grade of C+.
Pre- or Corequisite(s):
• FRAN 310; or
• permission of the department.

FRAN 470  Units: 1.5  Hours: 3-0-0  
Studies in Culture, Literature or Language of the French-Speaking World
Occasional offerings devoted to the culture, literature, or language of the French-speaking world. May include genre, thematic, or cross-cultural topics.

Notes:
• Credit will be granted for only one of FRAN 470, FREN 488F (if taken in the same topic), FREN 488G (if taken in the same topic), FREN 488H (if taken in the same topic), FREN 488I (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.

Prerequisite(s): FRAN 275 with a minimum grade of C+.
Pre- or Corequisite(s):
• FRAN 310; or
• permission of the department.

FRAN 475  Units: 1.5  Hours: 3-0-0  
Modern French
Detailed study of contemporary French, with particular attention to aspects of the language useful to immersion teachers.

Prerequisite(s): Admission to Professional Specialization Certificate program in Teaching French Immersion.
Grading: COM, N,F.

FRAN 480  Units: 1.5  Hours: 3-0-0  
Directed Studies
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

Prerequisite(s): Permission of the department.
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<td>GEOG 228</td>
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**GEOG 252 - GEOG 322**

**GEOG 252**  
Units: 1.5  
Hours: 3-0-0  
Formerly: GEOG 352  
**Introduction to Coastal Geography**  
Examines the relationships among organisms - principally plants and animals - and their environment, emphasizing their distributions across a range of spatial and temporal scales. Examines basic ecological and evolutionary concepts affecting biogeographic processes of dispersal, speciation and extinction; how patterns of biodiversity change over space and time from early earth history to the contemporary environment; the nature of changing biotic distributions with increasing human impacts and global change.  
Prerequisite(s): One of GEOG 103, GEOG 110, EOS 110.

**GEOG 272**  
Units: 1.5  
Hours: 2-2-0  
**Introduction to Climatology and Hydrology**  
An investigation of the fundamental processes controlling climate and hydrology. Explores various factors and interactions that determine the spatial and temporal variations of individual climate elements. Special attention is given to the mutual interaction of climate with the Earth's surface and the role that ground surface type or cover plays in moderating local climate and hydrology.  
Prerequisite(s): Minimum second-year standing.

**GEOG 274**  
Units: 1.5  
Hours: 2-2-0  
**Introduction to Biogeography**  
Examines the relationships among organisms - principally plants and animals - and their environment, emphasizing their distributions across a range of spatial and temporal scales. Examines basic ecological and evolutionary concepts affecting biogeographic processes of dispersal, speciation and extinction; how patterns of biodiversity change over space and time from early earth history to the contemporary environment; the nature of changing biotic distributions with increasing human impacts and global change.  
Prerequisite(s): GEOG 101A and GEOG 103.  
Recommndation(s): Biology 12 or BIOL 150B recommended prior to GEOG 274.

**GEOG 276**  
Units: 1.5  
Hours: 2-2-0  
**Introduction to Geomorphology**  
Introduction to Earth surface process and landforms including riverine, desert, coastal, glacial, hillside and permafrost environments. Focus on regional and Canadian landscapes. Involves a field trip.  
Prerequisite(s): One of GEOG 103, GEOG 120, EOS 120.

**GEOG 288**  
Units: 1.5  
**World Regional Geography**  
An overview of world regions across the globe. Specific emphasis on the role of political, economic, social, cultural, and environmental patterns and processes in shaping the contemporary landscapes of world regions. Topics include: deforestation in Latin America, the spread of Islam in Southwest Asia, child labour in South Asia, the Caribbean and the legacy of colonialism in Africa.  
Prerequisite(s): Minimum second-year standing.

**GEOG 301**  
Units: 1.5  
Hours: 3-0-0  
Also: ES 461  
**Environmental Impact Assessment**  
An introduction to the objectives, philosophy, concepts, methods and social implications of environmental impact assessment (EIA). A critical examination of EIA as an analytical tool in the context of resource management and public policy is undertaken. Examples will be drawn from B.C., Canada and other countries.  
Note: Credit will be granted for only one of GEOG 301, GEOG 391 (if taken in the same topic), ES 400A (if taken prior to September 1989), ES 410, ES 461.  
Prerequisite(s): GEOG 209.  
•  If taken as ES 461,  
•  ES 200; and  
•  GEOG 301, ES 321, ES 341.

**GEOG 303**  
Units: 1.5  
Hours: 3-0-0  
**Conservation and Ecology of Whales**  
Examines the fundamental biology, evolution and ecology of the modern whale species. Discusses the history and the spectrum of the human relationships with whales. Current topics in the marine mammal sphere are critically examined.  
Note: Credit will be granted for only one of GEOG 303, GEOG 391 (if taken in the same topic).  
Prerequisite(s): One of BIOL 150A, BIOL 184, BIOL 190B, GEOG 274.

**GEOG 304**  
Units: 1.5  
Hours: 3-0-0  
**Coastal Conservation**  
Examines the natural science and social science dimensions of conservation on the remote and largely undeveloped central and north coast of British Columbia. Students explore current issues with relevant theory, thus uniting contemporary affairs with scholarship. Major themes are energy development and exploitation of biological resources (like fish and wildlife), but specific themes might change among years. Students learn from western scientific approaches, First Nations perspectives, and their interaction.  
Note: Credit will be granted for only one of GEOG 304, GEOG 391 (if taken in the same topic).  
Prerequisite(s): GEOG 252 or GEOG 352.

**GEOG 306**  
Units: 1.5  
Hours: 3-0-0  
**Geography of Canada**  
An examination of the physical, economic, and cultural landscapes that distinguish the geographical character of major regions in Canada. Issues surrounding Canada's identity and expressions of regionalism are considered.

**GEOG 308**  
Units: 1.5  
Hours: 2-2-0  
**Introduction to Geographic Information Systems**  
Fundamentals and sources of geographic information, basic skills in geographic data browsing, query and analysis. Laboratory component introduces GPS and commercial geographic information software solutions.  
Notes:  
•  Credit for this course will not be counted toward degree programs in Geography.  
•  Students with credit in GEOG 222 or GEOG 228 are not permitted to register in GEOG 308. This service course is intended for students with a general interest in the field of geomatics.

**GEOG 309**  
Units: 1.5  
Hours: 3-0-0  
Formerly: GEOG 219  
**Geography of British Columbia**  
An examination of the physical, economic, and cultural landscapes that distinguish the cities and rural regions of Canada's West Coast province.  
Note: Credit will be granted for only one of GEOG 309, GEOG 219.  
Prerequisite(s): Minimum second-year standing.

**GEOG 314**  
Units: 1.5  
Hours: 3-0-0  
**Global Environment Change and Human Response**  
Based on four components: global environmental change, sustainable development, biodiversity, and population impoverishment and environmental degradation. Lectures and discussion emphasize the causes of global change, the present and expected impacts on natural and social systems, and response strategies that have been proposed or enacted.  
Note: Credit will be granted for only one of GEOG 314, GEOG 214 (if taken prior to December 2006).  
Prerequisite(s): Minimum second-year standing.

**GEOG 315**  
Units: 1.5  
Hours: 2-2-0  
**Geocaching**  
Introduces the activity of geocaching, the fundamentals of GPS navigation and data collection. Emphasis is placed on geocaching, the history and workings of GPS and associated navigation systems, map datums and coordinate systems, and basics of GPS data management. Hands-on operating and working with GPS units in the field, through a variety of geocaching activities and assignments. Examples of the use of GPS in geographical research will be demonstrated through lectures and readings.  
Note: Credit will be granted for only one of GEOG 315, GEOG 391 (if taken in the same topic).  
Prerequisite(s): Minimum third-year standing.

**GEOG 319**  
Units: 1.5  
Hours: 2-2-0  
**Remote Sensing of the Environment**  
Focuses on physical principles underlying remote sensing and electromagnetic propagation in free space and matter; attenuation, absorption and scattering mechanisms; interaction of energy with the atmosphere and Earth materials such as vegetation, soil, rock, water and urban structures.  
Prerequisite(s):  
•  GEOG 222 and GEOG 228, and  
•  GEOG 226 or 1.5 units minimum 200 level STAT or equivalent; and  
•  minimum third-year standing.

**GEOG 322**  
Units: 1.5  
Hours: 2-2-0  
**Digital Remote Sensing**  
Processing and analysis of digital remotely sensed data. Data from various sources are discussed and analyzed with respect to their applicability in geographical sciences. Laboratory assignments use image analysis software in a variety of applications.  
Prerequisite(s):  
•  GEOG 222 and GEOG 228, and  
•  GEOG 226 or 1.5 units minimum 200 level STAT or equivalent; and  
•  minimum third-year standing.
GEOG 323 Units: 1.5 Hours: 2-2-0  
**Cartography**  
Introduces topographic and thematic cartography. Emphasis on cartographic data manipulation, generalization and symbolization; map design, visualization and communication. Laboratory assignments provide practical experience in designing and drafting maps.  
Prerequisite(s):  
- GEOG 222; and  
- GEOG 226 or 1.5 units minimum 200 level STAT or equivalent; and  
- minimum third-year standing.

GEOG 324 Units: 1.5 Hours: 3-0-0  
**Directions in Geography**  
An intellectual history of geographical thought, concentrating on trends, ideologies and controversies since 1960. Idiographic, nomothetic, quantitative, behavioural, applied radical, humanistic and recent social theory and GIS approaches are critically discussed in seminars.  
Prerequisite(s):  
- 4.5 units of 100- or 200-level GEOG courses.

GEOG 325 Units: 1.5 Hours: 2-3-0  
**Field Surveying**  
An introduction to fundamental concepts of surveying and field work. This is an instrument-based course covering differential leveling, traversing, tachometry, GPS and their applications to field work.  
Prerequisite(s):  
- GEOG 222; and  
- GEOG 226 or 1.5 units minimum 200 level STAT or equivalent; and  
- minimum third-year standing.  
Recommendation(s):  
- 1.5 units of GEOG 100-level recommended prior to GEOG 325.

GEOG 326 Units: 1.5 Hours: 2-2-0  
**Research Methods in Human Geography**  
Introduces the main methodological approaches both qualitative and quantitative, that are applied in human geography. A range of paradigms (ethnography, action research, narrative analysis, the scientific method, Marxism and feminism) and methods (research design, survey instrument design, participant observation, focus groups, in-depth interviews) will be examined and applied to current issues in human geography.  
Recommendation(s):  
- GEOG 226 recommended prior to GEOG 326.

GEOG 329 Units: 1.5 Hours: 2-2-0  
**GIS Applications and Tools**  
The basics of GIS tool development including applications, desktop GIS customization, map mashups, model building in a GIS environment, Internet GIS, building web pages that include GIS maps and tasks.  
Prerequisite(s):  
- GEOG 222 and GEOG 228; and  
- GEOG 226 or 1.5 units minimum 200 level STAT or equivalent; and  
- minimum third-year standing.

GEOG 332 Units: 1.5 Hours: 3-0-0  
**Urban Development in the Global South**  
Examines fundamental characteristics of cities in the Global South with a focus on issues of urban development as well as social, cultural, economic, and environmental challenges in the region. Addresses the driving forces of urban growth and investigates the consequences of this transformation in terms of economic and human development as well as environmental sustainability. Discussion and analysis of contentious urban issues and case studies from the Global South.  
Prerequisite(s):  
- GEOG 211 and GEOG 218.

GEOG 333 Units: 1.5 Hours: 3-0-0  
**Disaster Management and Community Resilience**  
Examines the dynamics and linkages between health and the environment at the micro scale of individuals to the macro scale of communities and nations. Definitions of health, wellness and well-being, as well as healthy communities; focusing on the range of factors, conditions and determinants that make people and place healthy or unhealthy.  
Prerequisite(s):  
- One of GEOG 209, GEOG 211, GEOG 218.  
Recommendation(s):  
- GEOG 226 or 1.5 units 200 level STAT.

GEOG 334 Units: 1.5 Hours: 3-0-0  
**Coastal and Marine Management**  
A systems approach to the study of contemporary issues relating to the geography of coastal communities. Topics include the social, political, cultural and economic forces that shape coastal communities and community life at the individual, community and macro scales.  
Prerequisite(s):  
- GEOG 252 or GEOG 352; and  
- GEOG 211 and GEOG 218.

GEOG 335 Units: 1.5 Hours: 3-0-0  
**Coastal Communities**  
A systems approach to the study of contemporary issues relating to the geography of coastal communities. Topics focus on the social, political, cultural and economic forces that shape coastal communities and community life at the individual, community and macro scales.  
Prerequisite(s):  
- GEOG 252 or GEOG 352; and  
- GEOG 211 or GEOG 218.

GEOG 336 Units: 1.5 Hours: 3-0-0  
**Health, Environment and Community**  
Examines the dynamics and linkages between health and the environment at the micro scale of individuals to the macro scale of communities and nations. Definitions of health, wellness and well-being, as well as healthy communities; focusing on the range of factors, conditions and determinants that make people and place healthy or unhealthy.  
Prerequisite(s):  
- One of GEOG 209, GEOG 211, GEOG 218.  
Recommendation(s):  
- GEOG 226 or 1.5 units 200 level STAT.
GEOP 358 - GEOP 407

GEOP 358 Units: 1.5 Hours: 3-0-0
Landscape Ecology
Landscape ecology emphasizes the interaction between spatial pattern and ecological processes. Focus is on the role of spatial heterogeneity in affecting the distribution and abundance of organisms, mass and energy transfers, and alterations of this structure by natural or anthropogenic forces. Implications for wildlife management and conservation are discussed.
Prerequisite(s):
- GEOS 101A or GEOS 103; and
- GEOS 226 or 1.5 units minimum 200 level STAT or equivalent; and
- one of BIOL 215, ES 240, ES 348; and
- 1.5 units 100 level MATH; and
- minimum third-year standing.
Recommendation(s): GEOS 274 recommended prior to GEOS 358.

GEOP 366 Units: 1.5 Hours: 3-0-0
Formerly: GEOS 473
Medical Geographies
Investigates the major research themes in medical geography, including the social and environmental contexts of disease, epidemiological data delivery systems, and health and the pollution syndrome. Involves lectures, seminars, and research projects.
Note: Credit will be granted for only one of GEOS 358, GEOS 475.
Prerequisite(s): GEOS 211 or GEOS 218.

GEOP 370 Units: 1.5 Hours: 3-2-0
Hydrology
An overview of hydrological processes, measurement techniques and data analysis. The movement of water in the hydrologic cycle via precipitation, interception, evapotranspiration, surface runoff, infiltration, soil moisture, groundwater flow and streamflow generation are examined. Applied aspects and local examples are discussed. Involves laboratory assignments and a field trip.
Prerequisite(s):
- GEOS 272 or EOS 340; and
- 1.5 units 100 level MATH; and
- minimum third-year standing.
Pre- or Corequisite(s): EOS 340.

GEOP 371 Units: 1.5 Hours: 3-0-0
Water Resources Management
A study of water resources management in different parts of the world, examining the influence of various physical, economic, social, political and technological factors. Examines the alternative ways in which such problems as water scarcity, floods and declining water quality are handled. Examines in detail a number of major water development schemes. Students will be expected to undertake a modest research project and report upon it.
Prerequisite(s): GEOS 209 and GEOS 272.

GEOP 373 Units: 1.5 Hours: 2-2-0
Applied Climatology
A study of the application of physical principles to practical problems in climatology and the reciprocal interaction between climate and human activities. Topics include: urban effects on climate; air pollution; human bioclimatology; agricultural climatology; and methods of microclimatic modification.
Prerequisite(s):
- GEOS 272; and
- 1.5 units 100 level MATH; and
- minimum third-year standing.

GEOP 376 Units: 1.5 Hours: 3-2-0
Process Geomorphology
An investigation of the physical processes that create and maintain landforms. Focus on measurement and analysis of morphodynamic processes in fluvial, aeolian, coastal, glacial, hillslope, and/or periglacial landscapes (e.g., sediment transport, erosion, wind/wave energy, river discharge, glacial dynamics, weathering rates). Involves a field trip and/or a group project.
Prerequisite(s):
- Either GEOS 276, or EOS 120 and EOS 201; and
- 1.5 units 100 level MATH; and
- minimum third-year standing.

GEOP 380 Units: 1.5 Hours: 3-0-0
Community Mapping
Examines the theory and practice of community based mapping and how it can facilitate dialogue and collaborative partnering, thus leading to knowledge co-creation, planning, citizen empowerment and engagement, building consensus, more informed policy making and ultimately social justice. This course is designed to be action-oriented and experiential, and has a very high local field component.
Note: Credit will be granted for only one of GEOS 380, GEOS 391 (if taken in the same topic).
Prerequisite(s): Minimum third-year standing.

GEOP 382 Units: 1.5 Hours: 3-0-0
Geography of Southeast Asia
A systematic geography of the countries of Southeast Asia. Topics include physical and cultural landscapes, regional variations, and problems associated with modernization and underdevelopment, such as settlement, land reform, urbanization and environment.
Note: Credit will be granted for only one of GEOS 382, GEOS 367, GEOS 463A, GEOS 467.
Prerequisite(s): Minimum second-year standing.

GEOP 383 Units: 1.5 Hours: 3-0-0
Formerly: PAAS 359
Physical and Cultural Geography of China
A study of the physical environment of China and the role of the Chinese people in moulding and changing the landscape over the past four thousand years. The subject matter will deal primarily with conditions pertaining to the Chinese earth and the Chinese people in the period up to the present, and provide an essential basis for appreciation to the transformation of China since 1949.
Note: Credit will be granted for only one of GEOS 383, GEOS 364, GEOS 464A, PAAS 359, PACI 383.
Prerequisite(s): Either PAAS 100 and PAAS 200, or 4.5 units of 100- or 200-level GEOS courses.

GEOP 386 Units: 1.5 Hours: 3-0-0
Contemporary Geopolitics
An overview of global geopolitics and the transformation of the world political map. Examination of key concepts and approaches to contemporary geopolitics through a series of regional case studies.
Note: Credit will be granted for only one of GEOS 386, GEOS 348.
Prerequisite(s): Minimum second-year standing.

GEOP 388 Units: 1.5 Hours: 3-0-0
Regional Studies
Geography of a selected region of the world from a systematic perspective. Topics include: the physical and human landscape; settlement; economic, political and social geography; spatial variation in modernization and economic growth.
Notes:
- Not open to students with credit in GEOS 466 without permission of the department.
- May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s): Minimum second-year standing.

GEOP 391 Units: 1.5 Hours: 3-0-0*
Topics in Geography
Examination of a specific topic or area in Geography. Topic(s) will be provided in advance of registration.
* Contact hours may vary depending on the topic.
Note: May be taken more than once for credit in different topics.
Prerequisite(s):
- Minimum second-year standing; and
- additional prerequisites set by department depending upon topic.

GEOP 404 Units: 1.5 Hours: 3-0-0
Space and Power
Investigates how political processes shape human geography, and conversely, how assumptions about geography underscore global politics. Examines the key themes, concepts, and theories that define the study of politics from a geographical perspective. Students gain a critical understanding of and appreciation for the historical and contemporary challenges of sovereignty, territoriality, governmentality, identity, citizenship, difference, violence, genocide, colonialism, and war.
Note: Credit will be granted for only one of GEOS 404, GEOS 491 (if taken in the same topic).
Prerequisite(s): One of GEOS 332, GEOS 340, GEOS 347B, GEOS 386.

GEOP 406 Units: 1.5 Hours: 3-0-0
Sustainable Cities
Explores the opportunities and challenges of planning ecologically, socially and environmentally just cities.
Prerequisite(s): One of GEOS 332, GEOS 340, GEOS 346.

GEOP 407 Units: 1.5 Hours: 3-0-0
Activism and Community-Based Planning
Investigates participatory approaches to community planning in urban settings. Challenges modernist traditions in planning theory by examining key themes, concepts, and theories that define the study of planning from an activist perspective. Provides students with an opportunity to become actively engaged in their community.
Prerequisite(s): One of GEOS 332, GEOS 340, GEOS 343.
GEOG 418 Units: 1.5 Hours: 2-3-0
Advanced Spatial Analysis and Geo-statistics
Explores advanced topics in the numerical analysis of points, lines, areas, and surfaces in discrete and continuous space, drawing on methodologies from geo-statistics, spatial analysis, regional sciences and landscape ecology. Includes coverage of spatial systems modelling and simulation, spatio-temporal analysis, exploratory spatial analysis and spatial data mining.
Prerequisite(s): GEOG 328 or GEOG 329.
Recommendation(s): GEOG 328 and GEOG 329 recommended prior to GEOG 418.

GEOG 420 Units: 1.5 Hours: 2-3-0
Field Studies in Coastal Geomatics
An integrated approach for using geomatics (remote sensing, GIS, spatial analysis) for data acquisition, processing and analysis to improve our understanding of marine and coastal areas. Topics focus on applications of geomatics for environmental and social lab work and seminar discussions. Students should be prepared to undertake one or more weekend field trips; a fee for each field trip may be applied.
Prerequisite(s):
  •  GEOG 319; and
  •  GEOG 328 or GEOG 329.
Recommendation(s): GEOG 252 and one of GEOG 370, GEOG 373, GEOG 376 recommended prior to GEOG 420.

GEOG 422 Units: 1.5 Hours: 2-3-0
Advanced Topics in Remote Sensing
Aspects of remote sensing including processing and classification of digital satellite and airborne data and digital elevation modelling. Emphasis on the processes of interpreting remotely sensed data, the enhancement of digital data for visual analysis and the integration of remotely sensed data with other spatial data.
Prerequisite(s): GEOG 319 or GEOG 322.
Recommendation(s): GEOG 319 and GEOG 322 recommended prior to GEOG 422.

GEOG 424 Units: 1.5 Hours: 3-0-0
Field Studies in Coastal Geomorphology
An advanced, field-based exploration of coastal geomorphic processes and landforms. Involves a week-long field trip to local coastal sites where students apply geomorphic concepts and methods towards a series of independent research assignments and/or group projects. Areas of investigation will span nearshore to backshore environments and wave, tidal, fluvial/estuarine, and aeolian processes. A field trip fee may be applied.
Note: Permission of the department must be acquired by 15 March of previous Winter Session.
Prerequisite(s):
  •  GEOG 376; and
  •  permission of the department.
Recommendation(s): GEOG 252 recommended prior to GEOG 424.

GEOG 428 Units: 1.5 Hours: 2-3-0
Advanced Topics in Geographic Information Sciences
Contemporary research topics in the geographic information sciences. Topic varies annually, but will be selected from one of the following: spatial decision support; visualization; business demographics; environmental modeling; or spatial analysis.
Note: Credit will be granted for only one of GEOG 428, GEOG 423.
Prerequisite(s): GEOG 328 or GEOG 329.
Recommendation(s): GEOG 328 and GEOG 329 recommended prior to GEOG 428.

GEOG 438 Units: 1.5 Hours: 3-0-0
Aquaculture in British Columbia
Introduction to the aquaculture industry within British Columbia, reviewing the history, culture species, production methods (hatchery through seafood processing), technological innovations, economics, marketing, environmental impacts/management, social issues (including First Nations), and the regulatory framework for this agri-food industry. Includes a field trip to aquaculture sites. Students should be prepared to undertake one or more weekend field trips, or a week-long field trip; a fee for each field trip may be applied.
Prerequisite(s): GEOG 304 or GEOG 353.

GEOG 448 Units: 1.5 Hours: 3-0-0
Urban Social Geographies
An advanced seminar on the social geographies of the contemporary city. A critical examination of the geographical dimensions of urban social life and the politics of public space. Students will collect and analyze primary-source data for a collective class research project on a particular aspect of the social geography of the Greater Victoria Region.
Prerequisite(s): One of GEOG 332, GEOG 340, GEOG 340A, GEOG 340B, GEOG 343, GEOG 363.

GEOG 450 Units: 1.5 Hours: 3-0-0
Environment and Sustainability in Practice
Examines the decision making theory and real world processes associated with resources management at the policy and field levels. Case studies used to illustrate decision making behaviour, from conflict to co-operation. Simulation sessions, field trip and field methods review.
Note: Credit will be granted for only one of GEOG 450, GEOG 450A.
Prerequisite(s): Two of GEOG 301, GEOG 303, GEOG 304, GEOG 314, GEOG 339, GEOG 353, GEOG 357, GEOG 358, GEOG 371.

GEOG 453 Units: 1.5 Hours: 3-0-0
Field Studies in Coastal and Marine Resources
Integrated coastal management is applied through community-based research. Based on a week-long field camp, discussions, projects and presentations, students gain first-hand experience in both biophysical and socio-economic perspectives of coastal areas. A field trip fee may be applied.
Prerequisite(s): GEOG 353 or GEOG 452.

GEOG 456 Units: 1.5 Hours: 3-0-0
Wildlife Conservation
An examination of the history of the conservation movement and wildlife management, human dimensions and the value of wildlife, and consequences of over-harvesting, habitat fragmentation, and invasive species for present-day wildlife conservation and, ways forward.
Note: Credit will be granted for only one of GEOG 456, GEOG 356.
Prerequisite(s): One of GEOG 358, ES 320, BIOL 370.

GEOG 457 Units: 1.5 Hours: 3-0-0
Marine Protected Areas
An in-depth look at the challenges facing designation and management of marine protected areas in Canada and internationally. Includes topics such as network design, governance, zoning, conflicts, ecotourism and fisheries. Students should be prepared to undertake one or more field trips; a fee for each field trip may be applied.
Note: Credit will be granted for only one of GEOG 457, GEOG 455, GEOG 459A, GEOG 459B.
Prerequisite(s): GEOG 357.
Recommendation(s): GEOG 252 and GEOG 304 recommended prior to GEOG 457.

GEOG 474 Units: 1.5 Hours: 3-0-0
Field Studies in Biogeography
A field-research course in biogeography based on a combination of reading, discussion, and data analysis. Involves a week-long field trip; a field trip fee may be applied.
Notes:
  •  Credit will be granted for only one of GEOG 474, GEOG 471A.
  •  Permission of the department must be acquired by 15 March of previous Winter Session.
Prerequisite(s):
  •  GEOG 274; and
  •  permission of the department.
Recommendation(s): GEOG 252 and GEOG 303 recommended prior to GEOG 474.

GEOG 476 Units: 1.5 Hours: 3-0-0
Advanced Studies in Geomorphology
Focusing on various geomorphologic themes, students will complete a major research project based on field work to supplement lectures, seminars and field/lab projects.
Note: Credit will be granted for only one of GEOG 476, GEOG 471C.
Prerequisite(s): GEOG 376.
GEOG 477 Units: 1.5 Hours: 3-0-0
Field Studies in Physical Geography
The nature of scientific research in physical geography is examined through field and laboratory techniques. Includes a week-long field camp where basic approaches, methodologies and techniques are used to prepare a series of reports based on field data and collected samples. A field trip fee may be applied.
Notes:
• Credit will be granted for only one of GEOG 477, GEOG 471D.
• Permission of the department must be acquired by 15 March of prior Winter Session.
Prerequisite(s):
• One of GEOG 358, GEOG 370, GEOG 373, GEOG 376; and
• permission of the department.

GEOG 484 Units: 1.5 Hours: 3-0-0
Advanced Studies in Weather and Climate
Detailed examination of atmospheric structures and processes underlying weather and climate. Practical work focuses on analysis of vertical stability and utilizing computer weather model data.
Prerequisite(s): GEOG 373.

GEOG 487 Units: 1.5 Hours: 3-0-0
Advanced Landscape Ecology
Explores current theory, concepts, methods, and applications of landscape ecology for both natural and managed landscapes. Topics may include relationship of landscape ecology to ecological theory, models of metapopulations, landscape structure and animal movement and predator-prey interactions. Applications including forestry, parks and protected areas, and wildlife management. Some years the course will be taught as a field course.
Prerequisite(s): GEOG 358.

GEOG 490 Units: 1.5 or 3.0
Directed Studies in Geography
In special cases, with the consent of the department and the individual instructor concerned, a student may be permitted to pursue a course of directed studies.
Note: Courses of 1.5 or 3 units may be arranged, but no student is permitted to take more than 3 units of directed studies.
Prerequisite(s):
• Minimum fourth-year standing; and
• permission of the department.

GEOG 491 Units: 1.5 Hours: 3-0-0*
Advanced Topics in Geography
Examination of a specific topic or area in Geography. Topic(s) vary depending on faculty interests and availability. The seminar format of this course requires students to participate orally in class and to submit a term paper. * Contact hours may vary depending on the topic.
Note: May be taken more than once for credit in different topics.
Prerequisite(s):
• Minimum third-year standing; and
• additional prerequisites set by department depending upon topic.

GEOG 499A Units: 1.5 Hours: 3-0-0
Formerly: part of GEOG 499
Honours Thesis
Students will prepare the first part of an honours thesis under the direction of a faculty member from the department.
Notes:
• Credit will be granted for only one of GEOG 499A, GEOG 499, GEOG 499B.
• GEOG 499A and B are "tied" courses and must be taken in consecutive terms except with permission of the department. Credit for GEOG 499B will be assigned only upon completion of both courses.
Prerequisite(s):
• Minimum fourth-year standing; and
• declared Honours in Geography.
Grading: INP, standard grade (assigned upon completion of 499B; if 499B is not completed, a grade equivalent to N will be assigned to 499A).

GEOG 499B Units: 1.5 Hours: 3-0-0
Formerly: part of GEOG 499
Honours Thesis
Students will complete their honours thesis under the direction of a faculty member from the department. After acceptance of the thesis by the supervising faculty member, an oral presentation and defence will be scheduled during the exam period.
Notes:
• Credit will be granted for only one of GEOG 499B, GEOG 499, GEOG 499A.
• GEOG 499A and B are "tied" courses and must be taken in consecutive terms except with permission of the department. Credit for GEOG 499B will be assigned only upon completion of both courses.
Prerequisite(s): GEOG 499A.

GMST 101 Units: 1.5 Hours: 3-0-0
Formerly: GER 100A
Beginning German I
Introduction for students with no previous knowledge of German. Facilitates learning and retention of vocabulary, effective communication in everyday interaction and the use of fundamental structures of grammar. Acquisition of a basic understanding of German and ability to read, write, speak and comprehend German at the beginner's level. Provides an introduction to the culture of German-speaking countries.
Note: Credit will be granted for only one of GMST 101, GER 100, GER 100A.

GMST 102 Units: 1.5 Hours: 3-0-0
Formerly: GER 100B
Beginning German II
For students with limited previous knowledge of German who wish to acquire a better command of the spoken and written language, learn about German-speaking culture and acquire more advanced skills in daily interactions. Acquisition of a basic understanding of German and ability to read, write, speak and comprehend German at the advanced beginner's level.
Note: Credit will be granted for only one of GMST 102, GER 100, GER 100B.
Prerequisite(s):
• GMST 101 or GER 100A; or
• permission of the department.

GMST 105 Units: 1.5 Hours: 3-0-0
Business German
An introduction covering topics such as business travel, the workplace, cultural conventions of German-speaking people and written and oral communication conventions in the business context.
Note: Not open to students with credit in any of GMST 201, GMST 202, GMST 301, GMST 302, GMST 401, GMST 402, GER 200, GER 252, GER 300, GER 352, GER 400, GER 452.
Prerequisite(s):
• GMST 101; or
• permission of the department.

GMST 180 Units: 1.5 Hours: 3-0-0
Myths, Fairy Tales and Fantasy Fiction
An introductory survey of Germanic mythology. Medieval heroic epics, Romantic gothic tales, the fairy tales of the Brothers Grimm and contemporary fantasy fiction and their adaptations in opera and film. Topics include the heroic quest, the fantastic and sorcery and witches. Emphasis on the mythical narrative structure and on the cultural significance of specific myths and tales.
Note: No knowledge of German required.

GMST 201 Units: 1.5 Hours: 3-0-0
Formerly: GER 200
Intermediate German I
Grammatical features and vocabulary and how to use them in sentences and texts. Further insights into the culture of German-speaking countries. Acquisition of an understanding of German that enables reading, writing, speaking and comprehension of German at the intermediate level.
Note: Credit will be granted for only one of GMST 201, GER 149, GER 200.
Prerequisite(s):
• One of GMST 102, GER 100, GER 100B; or
• permission of the department.
GMST 202 Units: 1.5 Hours: 3-0-0
Formerly: GER 252
Intermediate German I
Grammatical features and vocabulary and how to use them in sentences and texts. Exploration of the culture of German-speaking countries. Acquisition of an understanding of German that enables reading, writing, speaking and comprehension of German at the advanced intermediate level.
Note: Credit will be granted for only one of GMST 202, GER 252.
Prerequisite(s):
• GMST 201 or GER 200; or
• permission of the department.

GMST 210 Units: 1.5 Hours: 3-0-0
Special Topics
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.

GMST 261 Units: 1.5 Hours: 3-0-0
Trends in Contemporary Germany, Switzerland and Austria
Explores political, social and cultural developments in Germany, Switzerland and Austria after 1989. Topics may include the East-West divide in post-unification Germany, Berlin’s memorial landscape, the future of multiculturalism in Switzerland and Austria’s national identity in the New Europe.
Note: No knowledge of German required.

GMST 300 Units: 1.5 Hours: 3-0-0
Germanic Cultural Studies
Provides case studies in the cultural history of German-speaking countries in which students analyze texts, films, media, as well as visual and material objects and spaces from a variety of approaches and perspectives.
Note: No knowledge of German is required.

GMST 301 Units: 1.5 Hours: 3-0-0
Formerly: GER 300
Advanced German I
An intercultural approach to more complex syntactic structures. Emphasizes the four main skills of reading, writing, speaking and listening in order to produce and understand written and oral texts.
Note: Credit will be granted for only one of GMST 301, GER 300 (if taken in the same topic).
Prerequisite(s):
• GMST 202 or GER 252; or
• permission of the department.

GMST 302 Units: 1.5 Hours: 3-0-0
Formerly: GER 352
Advanced German II
Uses an intercultural approach to learn more complex semantic structures. Emphasizes the use of synonyms, idioms, phrases and dialects and using them effectively in written and oral texts. Exploration of differences and cultural diversities in German-speaking regions and countries.
Note: Credit will be granted for only one of GMST 302, GER 352 (if taken in the same topic).
Prerequisite(s):
• GMST 202 or GER 252; or
• permission of the department.

GMST 350 Units: 1.5 Hours: 3-0-0
Formerly: GERS 356
A Short History of German Film
An overview of German film-making from the early days of expressionism up to the New German Cinema. Films may include: The Cabinet of Dr. Caligari, Metropolis, M, The Murderers Are Among Us, Ali: Fear Eats the Soul.
Notes:
• Credit will be granted for only one of GMST 350, GERS 356.
• May count toward a Minor in Film Studies.
• No knowledge of German required.

GMST 351 Units: 1.5 Hours: 3-0-0
Formerly: GERS 439
The New German Cinema
Notes:
• Credit will be granted for only one of GMST 351, GERS 439, GERS 439.
• May count toward a Minor in Film Studies.
• No knowledge of German required.

GMST 352 Units: 1.5 Hours: 3-0-0
Formerly: GERS 483
Recent Film
An introduction to German films after unification, dealing with topics such as the two Germanies, literature and film, the role of history, and (re)presentation in a postmodern world.
Notes:
• Credit will be granted for only one of GMST 352, GERS 483.
• May count towards a Minor in Film Studies.
• No knowledge of German required.

GMST 353 Units: 1.5 Hours: 3-0-0
Formerly: GERS 333
Literature and Film of the Holocaust and "Third Reich"
Focus on Nazi popular culture and entertainment films and an exploration of a variety of Holocaust narratives that emerged during the Second World War and its aftermath.
Notes:
• Credit will be granted for only one of GMST 353, GERS 333.
• No knowledge of German required.

GMST 355 Units: 1.5 Hours: 3-0-0
Formerly: GERS 260
German Expressionism (1910-1933)
A multi-media exploration of a pivotal cultural movement that spanned the visual arts, filmmaking, architecture, music and literature.
Notes:
• Credit will be granted for only one of GMST 355, GERS 260.
• No knowledge of German required.

GMST 362 Units: 1.5 Hours: 3-0-0
The Two Germanies
A comparative study of daily life and culture in the formerly divided Germany (1949-1989) and how art, literature, music and film defined and distinguished the two countries.
Note: No knowledge of German required.
GMST 405 - GMST 488

GMST 405  Units: 1.5  Hours: 3-0-0
Formerly: GER 390
Reading, Grammar and Translation
Focus on comprehension with an emphasis on developing passive language skills such as reading and translating texts from German to a target language. Comprehensive introductory overview of grammatical structures underlying German language.
Notes:
• Credit will be granted for only one of GMST 405, GMST 101 (if taken prior to May 2015), GMST 102 (if taken prior to May 2015), GMST 103 (if taken prior to May 2015), GER 100, GER 100A, GER 100B, GER 390.
• Not open to students registered or with credit in any of GMST 201, GMST 202, GMST 301, GMST 302, GMST 401, GMST 402, GER 200, GER 252, GER 300, GER 352, GER 400, GER 452.
• May not be counted towards upper-level requirements in Honours, Major, or General and Minor programs in Germanic Studies.
• Online delivery.

GMST 410  Units: 1.5  Hours: 3-0-0
Formerly: GER 438A
Special Topics
Notes:
• Credit will be granted for only one of GMST 410, GER 438A, GER 438B (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

GMST 450  Units: 1.5  Hours: 3-0-0
Formerly: GER 437
Major Filmmakers
A study of the films of one or more major filmmakers from a German-speaking country, whose impact on cinema as an art form has been wide-ranging and international in scope.
Notes:
• Credit will be granted for only one of GMST 450, GER 437 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.
• No knowledge of German required.
• May count towards a Minor in Film Studies.

GMST 452  Units: 1.5  Hours: 3-0-0
Representations of Nazism in Contemporary Film and Visual Culture
Explores portrayals of Nazi perpetrators in 20th- and 21st-century cinema as well as in popular culture; historically and politically contextualizes the aesthetics and ethics of 'Naz films' and examines broader questions of how these productions represent the Holocaust in the contemporary imagination.
Notes:
• No knowledge of German required.
• May count towards a Minor in Film Studies.

GMST 453  Units: 1.5  Hours: 3-0-0
Formerly: GERS 433
After-Images of the Holocaust in Text and Film
Examines how writers, filmmakers and visual artists attempt to come to terms with the legacy of the National Socialist regime while portraying the after-effects of the Holocaust for the second and third generations in Germany, Israel, the United States and Canada.
Notes:
• Credit will be granted for only one of GMST 453, GERS 433, GER 433.
• No knowledge of German required.

GMST 454  Units: 1.5  Hours: 3-0-0
Formerly: GERS 487
A Cultural History of Vampires in Literature and Film
A study of literary and cinematic vampires in historical context. Without focusing exclusively on German literature and film, follows the vampire myth and its various guises from classicism to postmodernism in novels and films.
Notes:
• Credit will be granted for only one of GMST 454, GERS 487.
• May count towards a Major in Film Studies.
• No knowledge of German required.

GMST 455  Units: 1.5  Hours: 3-0-0
German Visual Culture
An investigation into the multiple visual cultures of twentieth-century Germany, including movements in art, architecture and film.
Note: No knowledge of German is required.

GMST 461  Units: 1.5  Hours: 3-0-0
Metropolis Berlin
A multi-media investigation into how the cultural and artistic landscape of the capital Berlin is represented in and through the literature and film from the 19th to the 21st century.
Note: No knowledge of German required.

GMST 462  Units: 1.5  Hours: 3-0-0
Nietzsche in the English-Speaking World
Examines the myths surrounding Friedrich Nietzsche’s life and work. Investigates how Nietzsche was constructed in the English-speaking world as the mad genius, the anti-Semite and the proto-Nazi. Begins with Nietzsche’s early reception in Europe and refers to literature, journalism, art and film.
Note: No knowledge of German required.

GMST 465  Units: 1.5  Hours: 3-0-0
Adorno, Benjamin and Frankfurt School Critical Theory
Examines the Frankfurt School Critical Theory through the cultural context of Weimar modernism through the fascist period to Germany in the 1960s. Emphasis on Benjamin and Adorno/Horkheimer, but also covers aspects of Hegel and Marx as well as philosophers of the second generation of the Frankfurt School. Juxtaposes the theory with relevant examples from media, film, avant-garde and popular music and also includes forays into the poetry and writings of Hölderlin, Kafka, Brecht, Celan and Enzensberger.
Note: Credit will be granted for only one of GMST 465, GMST 410 (if taken as section A01 in Sep-Dec 2015).

GMST 480  Units: 1.5  Hours: 3-0-0
Major Writers
Study of one or more German-speaking authors in terms of theme, genre, or cultural context. May include Lessing, Goethe, Schiller, Kleist, Mann, Kafka, Weiss, Wolf and Grass.
Note: No knowledge of German required.

GMST 481  Units: 1.5  Hours: 3-0-0
The Age of Goethe and Romanticism
An exploration of the rich literary and cultural diversity of the period from the 1750s to the 1830s. Examines major works by Goethe, Schiller and the Romantics, the rise of women’s literature and the notion of the dilettante author, the salon culture of Weimar and Berlin and hybrid genres such as the diary, the letter, and the fragment.
Note: No knowledge of German required.

GMST 482  Units: 1.5  Hours: 3-0-0
Special Topics in Holocaust Studies
Notes:
• Credit will be granted for only one of GMST 482, GMST 382 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.
• No knowledge of German required.
• May be offered as a joint undergraduate and graduate class.

GMST 484  Units: 1.5  Hours: 3-0-0
Holocaust Testimony and Archival Practice
Working with actual testimony from the USC Shoah Foundation, explores theoretical and practical aspects of indexing and conceptualizing Holocaust narratives and testimony.
Note: Credit will be granted for only one of GMST 484, GMST 584.

GMST 487  Units: 1.5  Hours: 3-0-0
The Theatre and Dramaturgy of Bertolt Brecht
Explores students to the core methods and concepts of Brecht’s dramatic theory, such as epic theatre, estrangement, the V-Effekt, Gestus etc. Students study representative plays from each of Brecht’s major creative periods in juxtaposition with some of the pivotal dramaturgical texts from that same period and thus explore the historical evolution of the dialogue itself between Brecht’s theatre and his dramatic theory.
Note: No knowledge of German required.

GMST 488  Units: 3.0  Hours: 3-3-0
Performing German Drama
Combining theatre history with performance, develops a dramaturgical concept for a German play and mounts a German-language production at the end of the term. Instruction, including production elements, is in English; the play is performed in German using a dual-language script and language and dialect coaches. Some background in German is required only for the student actors.
Notes:
• Credit will be granted for only one of GMST 488 (if taken in the same topic), GERS 438A (if taken in Sep-Dec 2011).
• May be taken more than once for credit in different topics with permission of the department.
Directed Studies

**Notes:**
- Credit will be granted for only one of GMST 489, GER 435.
- No knowledge of German required.

**Prerequisite(s):** Permission of the department.

**GMST 490**
Units: 1.5
Hours: 3-0-0
Directed Studies
Directed readings and written assignments under the supervision of a faculty member.

**Note:** May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

**Prerequisite(s):** Permission of the department.

**GMST 499**
Units: 1.5
Formerly: GER 499
Honours Thesis
During either semester of the final year of their Honours program, students will write a graduating thesis of approximately 7,500 words under the direction of a member of the department. An oral examination covering the topic of the thesis will be given by a departmental committee.

**Note:** Credit will be granted for only one of GMST 499, GER 499.

### GNDR
**Gender Studies**
Department of Gender Studies
Faculty of Humanities

**GNDR 100**
Units: 1.5
Hours: 3-0-0
Formerly: WS 104

**Gender, Power and Difference**
Interdisciplinary introduction to gender studies. Considers the way gender (i.e., our idea of what it is to be a "real" woman or man) is constructed across class, race/ethnicity, sexualities, (dis)abilities, age and geographical location. Examines the impact of these intersecting identities on social inequality through diverse topics, such as media, culture, language, work, health, globalization, colonization, and activism. Situates Canadian topics in a broader, transnational context, emphasizing connections between the "local" and the "global."

**Notes:**
- Credit will be granted for only one of GNDR 100, WS 104.
- Not open to fourth-year students without permission of the department.

**GNDR 200**
Units: 1.5
Hours: 3-0-0
Formerly: WS 203

**Popular Culture and Social Media**
Critically examines representations of gender, race, class and sexualities in popular culture and social media with a consideration of how historical, ideological, social and political forces influence media practices.

**Note:** Credit will be granted for only one of GNDR 200, WS 203.

**Recommendation(s):** GNDR 100 recommended prior to GNDR 200.

**GNDR 201**
Units: 1.5
Hours: 3-0-0
Formerly: WS 205

**Gender, Food and Power**
Examines the ways in which Western culture has commodified the female body and gendered and intersectional identities and communities. Considers how colonialism, globalization and power relations affect foodways (the practices associated with the production, sourcing, distribution, preparation and consumption of food) and power in globalized and North American food systems. Examines some of the ways in which communities are seeking to enhance food security and work toward food sovereignty and food justice.

**Note:** Credit will be granted for only one of GNDR 201, WS 205.

**Recommendation(s):** GNDR 100 recommended prior to GNDR 201.

**GNDR 202**
Units: 1.5
Hours: 3-0-0
Formerly: WS 206

**Globalization and Resistance**
Inquiry into the gendered, racialized, sexualized, and classed impacts of the complicated spread of global interdependence in the political, economic, and cultural arenas. Also explores challenges to economic re-structuring, poverty, militarization, labour rights abuses, and environmental degradation.

**Note:** Credit will be granted for only one of GNDR 202, WS 206, WS 312.

**Recommendation(s):** GNDR 100 recommended prior to GNDR 202.

**GNDR 203**
Units: 1.5
Hours: 3-0-0
Formerly: WS 207

**Indigenous Women in Canada**
Introduces a wide range of themes and issues relating to the contemporary and historical experience of Indigenous women in Canada. Examines Indigenous women's gendered experience of colonization and resistance, explores their contributions to social justice movements and the cultural resurgence of their nations.

**Note:** Credit will be granted for only one of GNDR 203, WS 102, WS 207.

**Recommendation(s):** GNDR 100 recommended prior to GNDR 203.
GNDR 209 Units: 1.5 Hours: 3-0-0
Formerly: GNDR 303, WS 312A
Families, Intimacies and Nationhood
Through the lens of families and intimacies, examines the politics of gender, race, class and sexuality in the nation building of Canada. Investigates family, relationships, and nation making in the context of policies governing colonialism, citizenship, parenthood, cohabitation, marriage, divorce, custody and state benefits. Maps transformations of intimacy that have evolved as a result of and in spite of state-sanctioned policies.
Note: Credit will be granted for only one of GNDR 209, GNDR 303, WS 312A, WS 329 (if taken in the same topic).
Recommendation(s): GNDR 100 recommended prior to GNDR 209.

GNDR 210 Units: 1.5 Hours: 3-0-0
The Zombie in Popular Culture
Surveys the zombie in popular film, television and other cultural productions. Critically analyzes the zombie at the intersection of race, class, gender, sexuality, nation and the posthuman.
Recommendation(s): GNDR 100 recommended prior to GNDR 210.

GNDR 219 Units: 1.5 Hours: 3-0-0
Topics in Gender Studies
Variable content course on aspects of Gender Studies.
Notes:
• Credit will be granted for only one of GNDR 219, WS 219 (if taken in the same topic).
• May be taken more than once in different topics.
Recommendation(s): GNDR 100 recommended prior to GNDR 219.

GNDR 300 Units: 1.5 Hours: 3-0-0
Formerly: WS 303
Gender Studies Seminar
Introduction to the discipline of Gender Studies, intended for students pursuing an Honours, Major, or General and Minor program in Gender Studies. Examines various debates and developments in the field, introduces students to faculty research and methodologies, and offers students the opportunity to develop professional skills.
Notes:
• Credit will be granted for only one of GNDR 300, WS 303.
• Required for GNDR Honours and Major students.
Prerequisite(s):
• Declared Honours, Major, General, or Minor in Gender Studies; or
• permission of the department.
Recommendation(s): Recommended for GNDR General and Minor students.

GNDR 301 Units: 1.5 Hours: 3-0-0
Formerly: WS 310A
Women, Race and Empire
Introduces the complex and often problematic relationship between women, race and colonialism. Examines issues such as the link between gender and race in European colonialism, the implication of white women in empire, the location of racialized women in imperial contexts, and the influence of gender and imperialism in the way post-colonial feminisms unfold in certain contexts.
Note: Credit will be granted for only one of GNDR 301, WS 310A, WS 329 (if taken in the same topic).
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 302 Units: 1.5 Hours: 3-0-0
Formerly: WS 311
Sex Work, Trafficking and Human Rights
Within the context of the global economy and transnational migration, examines current debates about sex work and human trafficking into various labour sites, including the commercial sex sector. Explores legal, policy and grassroots approaches to sex work and human trafficking at the international and national levels.
Note: Credit will be granted for only one of GNDR 302, WS 311.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 304 Units: 1.5 Hours: 3-0-0
Also: PAAS 366
Formerly: WS 314
Gendering India from Empire to Bollywood
Uses a gendered lens to analyze the manner in which both the British colonial gaze and Indian nationalisms imagined India. Theoretical readings, biographies and Bollywood films unpack ways in which gender, race and class constructed dominant ideas of the Indian nation and how this nationalism in turn shaped women’s lives.
Note: Credit will be granted for only one of GNDR 304, WS 314, PAAS 366.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 305 Units: 1.5 Hours: 3-0-0
Formerly: WS 315
Gender and International Human Rights
An interdisciplinary examination of the ways in which international human rights theories, organizations, laws, and practice are gendered, racialized, sexualized, and class based, and their effects on freedom, equality, and dignity. Analyzes the history and development of ideas/definitions of “rights” and challenges to these definitions. Emphasizes the interconnectedness of the global and local through a multitude of topics, including culture, human security, bodily integrity, civil and political liberties, and human rights activism.
Note: Credit will be granted for only one of GNDR 305, WS 315, WS 319 (if taken in the same topic).
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 306 Units: 1.5 Hours: 3-0-0
Formerly: WS 316
Gender and International Development
Examines the evolution of feminist responses to and critiques of mainstream development policies and theories of international development. Examines the tensions around development work in the Global South. Topics may include the environment and natural resources, health, education, poverty, and empowerment strategies.
Note: Credit will be granted for only one of GNDR 306, WS 316, WS 319 (if taken in the same topic).
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 307 Units: 1.5 Hours: 3-0-0
Formerly: WS 317
Sexuality and the Body in International Development
Examines the variety of ways that bodies are positioned in international development discourse and policy. Topics include HIV/AIDS, reproductive rights, maternal health, disabled bodies, violated bodies, sexualities, techno-bodies and care labour.
Note: Credit will be granted for only one of GNDR 307, WS 317.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.
Recommendation(s): GNDR 305 and/or GNDR 306 recommended prior to GNDR 307.

GNDR 308 Units: 1.5 Hours: 3-0-0
Indigeneity, Gender and Land
Illuminates the dynamic and shifting relationships that Indigenous peoples have with their lands and territories. These relationships are examined through a gendered lens in historically and regionally varied Indigenous-settler colonial contexts. From their own positionalities, students will engage in reflections, articulations and embodiment of their own relationships with land while critically considering what this means for the Indigenous peoples, lands and territories in which we live.
Note: Credit will be granted for only one of GNDR 308, GNDR 329 (if taken in Jan - Apr 2017).
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 309 Units: 1.5 Hours: 3-0-0
Masculinities
Examines the various ways the question - 'who is a man?' can be answered by taking into account the intersections of race, sexualities, class and nationalism. Explores how these intersections are expressed in specific societal/historical contexts through power dynamics between “hegemonic masculinities” and a variety of subordinate manhoods.
Note: Credit will be granted for only one of GNDR 309, GNDR 329 (if taken in the same topic), WS 329 (if taken in the same topic).
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.
Indigenous Feminisms
Introduces Indigenous feminisms as a theoretical lens, political position, and social orientation employed by Indigenous peoples to resist and transform colonization and intersectional oppressions in Turtle Island. Issues, debates, positionalities are presented from transnational perspectives (i.e., Indigenous nations and nation-states). Content reveals how indigenous feminisms are for everybody, however Indigenous womyn’s thought about Indigenous womyn’s lives is emphasized.
Note: Credit will be granted for only one of GNDR 310, WS 219 (if taken in the same topic).
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 319 Units: 1.5 Hours: 3-0-0
Formerly: WS 319
Topics in Economies, States and Global Issues
Variable content course on aspects of economies, states and global issues as they pertain to gendered lives.
Notes:
• Credit will be granted for only one of GNDR 319, WS 319 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 320 Units: 1.5 Hours: 3-0-0
Formerly: WS 321A
Queer Desire
Explores Queer theory. Highlights the philosophical arguments, debates and shifting knowledges generated out of Queer theory’s critique of the Western production of heterosexuality—the assumed stability of sex, gender and sexuality—and Queer theory’s critique of identity politics.
Note: Credit will be granted for only one of GNDR 320, WS 321A.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 321 Units: 1.5 Hours: 3-0-0
Formerly: WS 323A
The Medicinalization of Sex
Traces the scientific construction of sexuality from the 19th century to the present. Examines how medicine, psychiatry, surgery and, more recently, drug companies, have constructed popular definitions of sexual normalcy and deviance, function and dysfunction. Highlights the power of science and medicine to define, judge, regulate, and discipline sex and considers the transformative possibilities afforded by new technologies.
Note: Credit will be granted for only one of GNDR 321, WS 323A.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.
GNDR 333  Units: 1.5  Hours: 3-0-0

Formerly: WS 336

Anti-Racist Feminisms and Democratic Futures
Introduces students to emerging debates in the growing literature on anti-racist feminism. Examines key assumptions underlying feminism and feminist anti-racist discourses. Analyzes western feminism as theory and practice by situating it within a global and historical context. Beginning with an analysis of whiteness, binarisms, colonialisms and orientalisms, challenges students to consider the theory and practice needed for a feminist, anti-racist reimaging of democracy and democratic futures.

Note: Credit will be granted for only one of GNDR 333, WS 331, WS 336.

Prerequisite(s):
- Minimum second-year standing; or
- permission of the department.

Recommendation(s): GNDR 332 recommended prior to GNDR 333.

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GNDR 334  Units: 1.5  Hours: 3-0-0

Formerly: WS 337

Bodies out of Bounds
Critiques productions of the 'normal' body by introducing and critically analyzing bodies that defy, resist, challenge and, in the process, expose the 'normal' body as myth. Explores the disruptive potential of diverse bodies and various bodily practices.

Note: Credit will be granted for only one of GNDR 334, WS 337.

Prerequisite(s):
- Minimum second-year standing; or
- permission of the department.

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GNDR 335  Units: 1.5  Hours: 3-0-0

Formerly: WS 338

Border Crossing, Migration and Gender
Examines the emerging field of transnational feminist thought by introducing students to feminist approaches to understanding globalization. Uses an interdisciplinary approach to explore global/local interactions, place and mobility, women’s activism and organizing, nationalism and citizenship, diasporic subjects, transnational and postmodern cultural formations, and transnational political economies and globalization.

Note: Credit will be granted for only one of GNDR 335, WS 338.

Prerequisite(s):
- Minimum second-year standing; or
- permission of the department.

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GNDR 336  Units: 1.5  Hours: 3-0-0

Transgender Theory
Examines predominant debates within the discipline historically, then explores concepts and knowledge/s generated out of contemporary transgender theory.

Prerequisite(s):
- Minimum second-year standing; or
- permission of the department.

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GNDR 339  Units: 1.5  Hours: 3-0-0

Formerly: WS 339

Topics in Theories and Activism
Variable content course on aspects of feminist theories and activism as they pertain to gendered lives.

Notes:
- Credit will be granted for only one of GNDR 339, WS 339 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s):
- Minimum second-year standing; or
- permission of the department.

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GNDR 340  Units: 1.5  Hours: 3-0-0

Formerly: WS 340

Indigenous Cinema Decolonizing the Screen
Intensive analysis of the work of Indigenous filmmakers with emphasis on Canada and the US. Topics include: decolonizing the screen; identity, community and representation; the ethics or image-making; Indigenous women’s filmmaking; Indigenous filmmaking as both an art form and a tool for social change. Examines the development of Indigenous cinema in Canada with special emphasis on documentaries, and looks at new directions in Indigenous cinema including experimental works and drama.

Note: Credit will be granted for only one of GNDR 340, WS 341.

Prerequisite(s):
- Minimum second-year standing; or
- permission of the department.

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GNDR 341  Units: 1.5  Hours: 3-0-0

Formerly: WS 341

Indigenous Women’s Autobiographies
Explores Indigenous women’s auto/biography as a creative form of expression that draws upon both the Indigenous and settler colonial literatures. Looks at Indigenous autobiographies across and within generations, from oral histories narrated by Indigenous women and ‘mediated’ by non-Indigenous recorders to contemporary texts written by Native women themselves that challenge the boundaries of conventional autobiography.

Note: Credit will be granted for only one of GNDR 341, WS 341.

Prerequisite(s):
- Minimum second-year standing; or
- permission of the department.

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GNDR 342  Units: 1.5  Hours: 3-0-0

Formerly: WS 345

Queer Literature
Explores “queer” representation in non-fiction. Particular attention paid to characters that embody marginalized genders, sexes and sexual practices.

Note: Credit will be granted for only one of GNDR 342, WS 345.

Prerequisite(s):
- Minimum second-year standing; or
- permission of the department.

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GNDR 343  Units: 1.5  Hours: 3-0-0

Formerly: WS 346

Indigenous Women Writing Resistance
Examines the work of North American Indigenous women “word warriors” through a selection of novels, poetry, plays and spoken word. Explores the ways in which Indigenous women writing resistance have “reinvented the enemy’s language” and used writing to resist the colonial project, reclaim and rewrite their histories, and re-imagine themselves and their futures.

Note: Credit will be granted for only one of GNDR 343, WS 346, WS 349 (if taken in the same topic).

Prerequisite(s):
- Minimum second-year standing; or
- permission of the department.

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GNDR 344  Units: 1.5  Hours: 3-0-0

Formerly: WS 347

Queer Film
Surveys “queer” representation in popular film. Particular attention is paid to critical analyses of gay, lesbian, straight, queer, transgender and transsexual embodiment on the screen.

Note: Credit will be granted for only one of GNDR 344, WS 219 (if taken in the same topic), WS 347.

Prerequisite(s):
- Minimum second-year standing; or
- permission of the department.

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GNDR 349  Units: 1.5  Hours: 3-0-0

Formerly: WS 349

Topics in Film, Literature and Cultural Production
Variable content course on aspects of film, literature and cultural production as they pertain to gendered lives.

Notes:
- Credit will be granted for only one of GNDR 349, WS 349 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s):
- Minimum second-year standing; or
- permission of the department.

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GNDR 400A  Units: 1.5  Hours: 3-0-0

Formerly: WS 400A

Critical Research Practices
Study and practice of critical research methods.

Note: Credit will be granted for only one of GNDR 400A, WS 400A.

Prerequisite(s):
- 3 units of 200-level GNDR or WS courses; and
- 4.5 units of 300- or 400-level GNDR or WS courses; or
- permission of the department.

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GNDR 400B  Units: 1.5  Hours: 3-0-0

Formerly: WS 400B

Research Seminar for Independent Project
Building on project begun in 400A, students meet weekly to discuss research challenges.

Note: Credit will be granted for only one of GNDR 400B, WS 400B.

Prerequisite(s):
- 400A or WS 400A; and
- declared Major in Gender Studies.
**GNDR 450**  
Units: **3.0**  
Hours: **3-0-0**  

Formerly: **WS 450**  

**Practising Feminism in the Field**  
The application of feminist theory to field-based practice acquired through placement with an organization, community group or service. Please refer to the “Guidelines for Ethical Conduct” and “Regulations Concerning Practica”.  

**Notes:**  
- Credit will be granted for only one of GNDR 450, WS 450.  
- Students must notify the department by April 30 in the previous academic year of their intention to register.  

**Prerequisite(s):**  
- 3 units of 200-level GNDR or WS courses; and  
- 4.5 units of 300- or 400-level GNDR or WS courses; and  
- declared Honours or Major in Gender Studies; or  
- permission of the department.

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**GNDR 480**  
Units: **1.5**  
Hours: **3-0-0**  

Formerly: **WS 480**  

**Advanced Seminar in Gender Studies**  
Selected aspects of Gender Studies  

**Notes:**  
- Credit will be granted for only one of GNDR 480, WS 480 (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.  

**Prerequisite(s):**  
- 3 units of 200-level GNDR or WS courses; and  
- 4.5 units of 300- or 400-level GNDR or WS courses; or  
- declared Honours or Major in Gender Studies; or  
- permission of the department.

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**GNDR 490**  
Units: **1.5**  
Hours: **3-0-0**  

Formerly: **WS 490**  

**Directed Studies**  
Supervised study in an area of Gender Studies to be determined by the student and the instructor.  

**Note:** Credit will be granted for only one of GNDR 490, WS 490.  

**Prerequisite(s):**  
- 3 units of 200-level GNDR or WS courses; and  
- 6 units of 300- or 400-level GNDR or WS courses with a minimum GPA of 6.0; and  
- declared Honours or Major in Gender Studies; or  
- permission of the department.

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**GNDR 499**  
Units: **3.0**  
Hours: **3-0-0**  

Formerly: **WS 499**  

**Honours Graduating Essay**  
During the final year of the Honours Program, students will write a graduating essay of approximately 15,000 words under the direction of a member of the Gender Studies Department. Between September and April students are required to meet periodically as a group to discuss research challenges.  

**Notes:**  
- Credit will be granted for only one of GNDR 499, WS 499.  
- Students must have their topic approved by the thesis adviser by June 30 prior to the fall term of their 499 registration. See regulations for acceptance into the Gender Studies Honours Program.

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**GREE**

**Greek**

**Department of Greek and Roman Studies**  
**Faculty of Humanities**  
Students without previous knowledge of ancient Greek will register for **GREE 101**. **GREE 202** is the prerequisite for **GREE 301**, **302**, **303**, **304**, **305** and **306**, two of which will be offered annually, circumstances permitting. Courses at the 400-level have a prerequisite of 3 units of Greek at the 300-level or above, or permission of the department. For courses in Greek and Roman archaeology, history, and literature, see courses listed under GRS.

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**GREE 401**  
Units: **1.5**  
Hours: **4-0-0**

**Introductory Ancient Greek I**  
Basic introduction to ancient Attic Greek. Based on reading and translating progressively more challenging passages in ancient Greek, with emphasis on acquiring basic vocabulary and rules of grammar.  

**Note:** Credit will be granted for only one of **GREE 101**, **GREE 100**.

**GREE 402**  
Units: **1.5**  
Hours: **4-0-0**

**Introductory Ancient Greek II**  
Continuation of 101. Reading and translation of progressively more challenging passages in ancient Greek, with emphasis on acquiring basic vocabulary and rules of grammar.  

**Note:** Credit will be granted for only one of **GREE 102**, **GREE 100**.  

**Prerequisite(s):** **GREE 101**.

**GREE 403**  
Units: **1.5**  
Hours: **4-0-0**

**Advanced Grammar**  
Review of grammar covered in 101 and 102, followed by study of more advanced grammatical constructions. Readings will provide a transition from simplified language to unmodified literary Greek.  

**Note:** Credit will be granted for only one of **GREE 201**, **GREE 200**.  

**Prerequisite(s):**  
- **GREE 102**; or  
- permission of the department.

**GREE 404**  
Units: **1.5**  
Hours: **4-0-0**

**Introduction to Greek Literature**  
Includes select, elementary passages from a variety of major classical authors such as Homer, Herodotus, Sophocles, Euripides and Xenophon in combination with a review of grammar.  

**Note:** Credit will be granted for only one of **GREE 202**, **GREE 200**.  

**Prerequisite(s):**  
- **GREE 201**; or  
- permission of the department.

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**GREE 405**  
Units: **1.5**  
Hours: **4-0-0**

**Reading in Greek Literature**  
Continuation of 404. Reading and grammatical analysis of major passages from ancient Greek authors.  

**Prerequisite(s):**  
- **GREE 404**; or  
- permission of the department.

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**GREE 406**  
Units: **1.5**  
Hours: **4-0-0**

**Greek Historians**  
Selected readings from the Greek historians, particularly Herodotus, Thucydides and Xenophon.  

**Notes:**  
- Credit will be granted for only one of **GREE 303**, **GREE 300**, **GREE 404** (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.  

**Prerequisite(s):**  
- **GREE 202**; or  
- permission of the department.

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**GREE 407**  
Units: **1.5**  
Hours: **4-0-0**

**Reading in Greek Poetry I**  
Continuation of 406. Reading and grammatical and literary analysis of major passages from Greek poets, particularly Homer, Hesiod, Sappho, and Pindar.  

**Notes:**  
- Credit will be granted for only one of **GREE 304**, **GREE 300**, **GREE 404** (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.  

**Prerequisite(s):**  
- **GREE 202**; or  
- permission of the department.

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**GREE 408**  
Units: **1.5**  
Hours: **4-0-0**

**Reading in Greek Poetry II**  
Continuation of 407. Reading and grammatical and literary analysis of major passages from Greek poets, particularly Homer, Hesiod, Sappho, and Pindar.  

**Notes:**  
- Credit will be granted for only one of **GREE 305**, **GREE 300**, **GREE 404** (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.  

**Prerequisite(s):**  
- **GREE 202**; or  
- permission of the department.

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**GREE 409**  
Units: **1.5**  
Hours: **4-0-0**

**Reading in Greek Drama**  
Continuation of 408. Reading and grammatical and literary analysis of major passages from Greek drama, particularly Aeschylus, Sophocles, and Euripides.  

**Notes:**  
- Credit will be granted for only one of **GREE 306**, **GREE 300**, **GREE 404** (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.  

**Prerequisite(s):**  
- **GREE 202**; or  
- permission of the department.

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**GREE 410**  
Units: **1.5**  
Hours: **4-0-0**

**Reading in Greek Drama II**  
Continuation of 409. Reading and grammatical and literary analysis of major passages from Greek drama, particularly Aeschylus, Sophocles, and Euripides.  

**Notes:**  
- Credit will be granted for only one of **GREE 307**, **GREE 300**, **GREE 404** (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.  

**Prerequisite(s):**  
- **GREE 202**; or  
- permission of the department.

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**GREE 411**  
Units: **1.5**  
Hours: **4-0-0**

**Reading in Latin Drama**  
Continuation of 410. Reading and grammatical and literary analysis of major passages from Greek drama, particularly Aeschylus, Sophocles, and Euripides.  

**Notes:**  
- Credit will be granted for only one of **GREE 308**, **GREE 300**, **GREE 404** (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.  

**Prerequisite(s):**  
- **GREE 202**; or  
- permission of the department.
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<td><strong>GREE 481</strong></td>
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### **GREE 305 - Greek Orators**

Readings from select orators of the fifth and fourth centuries BC. Selections may include Antiphon, Lysias, Isocrates and Demosthenes.

**Notes:**
- Credit will be granted for only one of GREE 305, GREE 405, GREE 490E (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

**Prerequisite(s):**
- GREE 202, or
- permission of the department.

### **GREE 306 - Greek Comedy**

Examination of the Greek comic tradition through selected readings of the plays of Aristophanes and/or Menander.

**Notes:**
- Credit will be granted for only one of GREE 306, GREE 408 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

**Prerequisite(s):**
- GREE 202, or
- permission of the department.

### **GREE 310 - Koine Greek**

An introduction to the common dialect of ancient Greek used throughout the Greek world in the wake of the conquests of Alexander the Great (d. 323 BC), with an emphasis on gaining fluency. Readings from the Septuagint (Greek translation of the Hebrew Bible), the New Testament and selected documents. Differences in grammar and orthography from classical Greek will be discussed. The course may involve a palaeographical element, with readings from ancient papyri and medieval manuscripts.

**Prerequisite(s):**
- GREE 102, or
- permission of the department.

### **GREE 481 - Seminar in Greek Literature**

**Notes:**
- Credit will be granted for only one of GREE 481, GREE 401, GREE 402, GREE 404, GREE 406, GREE 407, GREE 408, GREE 490E, GREE 481A (if taken in the same topic), GREE 481B, GREE 481C (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

**Prerequisite(s):**
- 3 units of 300- or 400-level GREE courses, or
- permission of the department.

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### **GRS 100 - Discovering the Greeks and Romans**

**Foundational approach to Greece and Rome through literature, history and archaeology. Focus on ancient cultural and intellectual material of significance in the western tradition. Emphasis on early Greek history, literature of Classical Athens and the culture of Republican and Augustan Rome. Basic timeline of eras and events and general aspects of material culture, from the Bronze Age to the fall of Rome.**

**Notes:**
- Credit will be granted for only one of GRS 100, GRS 101, GRS 102, CLAS 100.
- Equivalent of GRS 101 and GRS 102.

**GRS 101 - Discovering the Ancient Greeks**

**Foundational approach to the civilization of ancient Greece through the evidence of literature, history and archaeology. Focus on the integration of primary sources to give a narrative of Greek literature and culture. A basic timeline of principal eras and events, and general aspects of material culture from the Bronze Age to the coming of Rome.**

**Notes:**
- Credit will be granted for only one of GRS 101, GRS 100.
- Equivalent of the first term of GRS 100.

**GRS 102 - Discovering the Ancient Romans**

**Foundational approach to the civilization of Rome through the evidence of literature, history and archaeology. Focus on shaping a cultural narrative of the Republic, Principate and Imperial eras through the integration of primary sources and other subjects. A basic timeline of principal eras and events, and general aspects of material culture from the foundation to the fall of Rome.**

**Notes:**
- Credit will be granted for only one of GRS 102, GRS 100.
- Equivalent of the second term of GRS 100.

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### **GRS 200 - Greek and Roman Mythology**

**Study of Greek and Roman myths, in the context of the culture and thought of Greece and Rome. Uses literary and artistic sources to establish and analyze the nature and function of myths in these cultures. Topics include the gods, heroes, local myths, political and cultural uses of myths and the origins of the influence of Greek and Roman myths on European culture.**

**Note:** Credit will be granted for only one of GRS 200, CLAS 200, RS 200.

### **GRS 203 - Classical Archaeology**

Formerly GRS 375

**Classical Archaeology**

Examines the major achievements in Greek and Roman archaeology throughout the Mediterranean. Covers Neolithic through Late Roman periods focusing on material culture. Emphasis on the changing relationship between humans and their environment as expressed in material objects, including cities, sanctuaries and works of art. Includes the history of the discipline, chronicling major discoveries in Greece and ancient Rome.

**Note:** Credit will be granted for only one of GRS 203, GRS 375, CLAS 375.

### **GRS 204 - The Ancient World on Film**

Formerly GRS 382

**The Ancient World on Film**

Explores the treatment in film of the history and myth of the world of the ancient Mediterranean. Both films and original sources are studied. Issues addressed include medium, genre and the mutability of myth and historical representation.

**Note:** Credit will be granted for only one of GRS 204, GRS 382.

### **GRS 250 - Greek and Latin Roots of English**

**Study of Greek and Latin words and their English derivatives.**

**Note:** Credit will be granted for only one of GRS 250, CLAS 250.

**Notes:**
- Assumes no knowledge of Greek and Latin.
- Assumes no knowledge of Greek and Latin.

### **GRS 300 - Heroes and Heroines in Action in Ancient Greek Epic**

**An examination of epic genre in Greek literature through reading Homer’s Iliad and Odyssey and Apollonius’ Jason and the Argonauts. Themes may include the definition of the genre of epic, the nature of heroism, mortality and the construction of gender.**

**Note:** Credit will be granted for only one of GRS 300, CLAS 300.

**Prerequisite(s):**
- One of GRS 100, GRS 101, GRS 200, or
- permission of the department.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRS 314</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Age of Nero</td>
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<td>Nero, the last of the Julio-Claudian emperors, promoted an artistic golden age to rival that of the first emperor, Augustus. Topics may include: literary authors such as Seneca, Lucan, Persius and Petronius; Nero's extravagant building projects in Rome; his reputation, ancient and modern, as an artist-emperor. <strong>Note:</strong> Credit will be granted for only one of GRS 314, GRS 325 (if taken in the same topic).</td>
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<tr>
<td>GRS 315</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Age of Augustus</td>
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<td>Examines the literature, material culture and historical context of the Augustan Principate. Focus on placing the works of Virgil, Horace and Ovid in the context of the cultural revolution unfolding in this era of momentous political change. <strong>Recommendation(s):</strong> One of GRS 100, GRS 102, GRS 341; or permission of the department.</td>
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<tr>
<td>GRS 316</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Pirates and Passion in Greek and Roman Novels and Romances</td>
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<td>An introduction to fictional prose literature in Greco-Roman antiquity and its social context. Principal works studied may include the Alexander Romance, Lucian's True Story, Longus' Daphnis and Chloe and other Greek romances of the Roman imperial period. <strong>Prerequisite(s):</strong> One of GRS 100, GRS 101, GRS 102; or permission of the department.</td>
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<tr>
<td>GRS 320</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Greek Tragedy</td>
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<td>Origins and developments of tragic drama in ancient Greece. Representative plays of Aeschylus, Sophocles and Euripides. <strong>Note:</strong> Credit will be granted for only one of GRS 320, CLAS 320.</td>
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<tr>
<td>GRS 323</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Ancient Comedy and Satire</td>
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<td>The origins and development of comedy, satire and invective in ancient Greece and Rome. <strong>Note:</strong> Credit will be granted for only one of GRS 323, GRS 322, GRS 343.</td>
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<tr>
<td>GRS 325A</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Topics in Greek Literature</td>
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<td><em>Formerly: part of GRS 325</em></td>
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<td><strong>Notes:</strong></td>
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<td>- Credit will be granted for only one of GRS 325A, GRS 325, CLAS 325.</td>
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<td>- May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.</td>
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<tr>
<td>GRS 326</td>
<td>1.5</td>
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<td>Greek History from the Bronze Age to Alexander</td>
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<td>Survey of Greek history from the emergence of Minoan-Mycenaean civilization until the death of Alexander the Great. Emphasis on the relationship of the Greeks to other Mediterranean and Near Eastern civilizations, the nature of the Greek polis, Greek colonization, the rise of democracy and Athenian, Spartan, Theban and Macedonian bids for leadership in Greece. <strong>Note:</strong> Credit will be granted for only one of GRS 331, GRS 201, CLAS 330. <strong>Recommendation(s):</strong> One of GRS 100, GRS 101, GRS 200, GRS 201, GRS 331 recommended prior to GRS 320.</td>
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<tr>
<td>GRS 326A</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Social and Economic History of Greece</td>
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<td>Discusses the social and economic history of Greece. Topics may include democracy and its influence on development, politics and society, social structure, agriculture, banking, trade and craft industry, living standards, social benefits, health and nutrition, education, leisure and culture, slavery and the status of women. <strong>Note:</strong> Credit will be granted for only one of GRS 326A, CLAS 326. <strong>Recommendation(s):</strong> One of GRS 100, GRS 101, GRS 200, GRS 201, GRS 331 recommended prior to GRS 320.</td>
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<td>GRS 326B</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Alexander and the Hellenistic Age</td>
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<td>The history of Alexander the Great's campaign to conquer the Persian empire and of the political, socio-economic, intellectual and cultural history of Hellenistic civilization in Greece, Asia Minor and the Near East. <strong>Recommendation(s):</strong> One of GRS 100, GRS 101, GRS 200, GRS 331, GRS 332 recommended prior to GRS 323.</td>
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<tr>
<td>GRS 327</td>
<td>1.5</td>
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<td>Myths and Theories of Popular Government</td>
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<td>An introduction to the major approaches to the interpretation of classical myth, from ritualist to structuralist to feminist and beyond. <strong>Recommendation(s):</strong> GRS 200 recommended prior to GRS 328.</td>
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<tr>
<td>GRS 331</td>
<td>1.5</td>
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<td>Women in the Greek and Roman World</td>
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<td>Examines the lives of women in the Greek and Roman worlds. Topics include constructions of femininity, visual and textual representations of women, women's legal and social status, marriage, motherhood, prostitution and sex slavery, women and religion, women and medicine. <strong>Note:</strong> Credit will be granted for only one of GRS 335, CLAS 335. <strong>Recommendation(s):</strong> One of GRS 100, GRS 101, or GRS 102 recommended prior to GRS 335.</td>
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<tr>
<td>GRS 334</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Democracy in the Ancient Mediterranean and its Legacy</td>
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<td>Study of the ideology, practice and impact of democratic institutions in the Ancient Mediterranean. The political systems of some or all of Classical and Hellenistic Greece, Carthage and the Roman Republic. Ancient influence upon theories of popular government in later history. Emphasis on the differences between direct and representative democracy and the role of democracy in fostering social welfare and economic and cultural development. <strong>Note:</strong> Credit will be granted for only one of GRS 336, GRS 334. <strong>Recommendation(s):</strong> One of GRS 100, GRS 101, GRS 201, GRS 331, GRS 332 recommended prior to GRS 336.</td>
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<tr>
<td>GRS 335</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Men in the Greek and Roman World</td>
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<td>Examines the lives of men in the Greek and Roman worlds. Topics include constructions of masculinity, visual and textual representations of men, men's legal and social status, marriage, fatherhood, and work and leisure. <strong>Note:</strong> Credit will be granted for only one of GRS 335, CLAS 335. <strong>Recommendation(s):</strong> One of GRS 100, GRS 101, or GRS 102 recommended prior to GRS 335.</td>
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<tr>
<td>GRS 336</td>
<td>1.5</td>
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<td>Women and Gender in the Ancient Mediterranean and its Legacy</td>
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<td>Study of the ideology, practice and impact of feminist institutions in the Ancient Mediterranean. The political systems of some or all of Classical and Hellenistic Greece, Carthage and the Roman Republic. Ancient influence upon theories of popular government in later history. Emphasis on the differences between direct and representative democracy and the role of democracy in fostering social welfare and economic and cultural development. <strong>Note:</strong> Credit will be granted for only one of GRS 336, GRS 334. <strong>Recommendation(s):</strong> One of GRS 100, GRS 101, GRS 201, GRS 331, GRS 332 recommended prior to GRS 336.</td>
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<tr>
<td>GRS 337</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Roman Daily Life</td>
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<td>An exploration of Roman social and cultural history from the second century BC to the second century AD. Themes treated may include the family, social structure, housing and urban environment, education, sexuality and work and leisure. <strong>Note:</strong> Credit will be granted for only one of GRS 342, CLAS 340. <strong>Recommendation(s):</strong> One of GRS 100, GRS 102, GRS 202, GRS 341 recommended prior to GRS 342.</td>
</tr>
</tbody>
</table>
GRS 344
Units: 1.5
Hours: 3-0-0
Formerly: GRS 441
The Fall of the Roman Republic
Study of the best-attested and most eventful period of Roman history: the collapse of the Roman Republic and the emergence of monarchy between 146 BCE and 1 CE. Attention to the voluminous and varied writings of Cicero and to documentary sources for the period, such as coins and inscriptions.
Note: Credit will be granted for only one of GRS 344, GRS 441.
Recommendation(s): GRS 202 or GRS 341 recommended prior to GRS 344.

GRS 348
Units: 1.5
Hours: 3-0-0
The City of Rome
Introduction to the monuments and communal life of Rome from its origins to the modern era. Emphasis on the archaeology and history of the city in antiquity. Analysis of literary representations of Rome in ancient, medieval and modern eras.
Recommendation(s): One of GRS 100, GRS 102, GRS 203, GRS 372 recommended prior to GRS 348.

GRS 349
Units: 1.5
Hours: 3-0-0
Jews and Christians in the Greek and Roman World
Introduction to Jewish and Christian history from the fourth century BCE to the fourth century CE. Topics include the Jewish Diaspora, the Jewish revolt against Greek and Roman rule, the missions of Jesus and Paul and the spread and persecution of Christianity. Emphasis on the social, cultural, political and military interactions between Jews, Christians and pagans.
Recommendation(s): One of GRS 100, GRS 101, GRS 102, GRS 201, GRS 202, GRS 331, GRS 341 recommended prior to GRS 349.

GRS 350
Units: 1.5
Hours: 3-0-0
Late Antiquity
The world of Late Antiquity in the Mediterranean region and the Near East during the period 150-750 CE. Emphasis on Christianization, the shifting role of the central state, the interaction of the Latin-speaking and Greek-speaking worlds and the development of a characteristic Late Antique culture in art and literature.
Recommendation(s): One of GRS 100, GRS 101, GRS 102, GRS 202, GRS 341 recommended prior to GRS 350.

GRS 355
Units: 1.5
Hours: 3-0-0
Love, Sex, and the Body in the Ancient World
Explores the sex-gender systems of the Greek and Roman worlds, drawing upon a range of material and textual evidence - from erotic vase paintings to legal texts and Roman novels. Topics may include: constructions of gender and sexuality, gender and sexual identities, sexual customs and ethics, marriage, prostitution and sex slavery, constructions of the male and female body, intersex and transgender persons.
Note: Credit will be granted for only one of GRS 355, GRS 326A (if taken as section A01 in Jan-Apr 2017).
Recommendation(s): One of GRS 100, GRS 101, or GRS 102 recommended prior to GRS 355.

GRS 361
Units: 1.5
Hours: 3-0-0
Aegean Bronze Age
Material culture from the eastern Mediterranean, from the Neolithic period through until the end of the Bronze Age. Focus on the Minoans on Crete and the Mycenaean Greeks. Also the Cyclades and the volcanic eruption of Thera, Troy and the Trojan War and the Hittite Kingdom in central Anatolia.
Recommendation(s): GRS 203 or GRS 371 recommended prior to GRS 361.

GRS 371
Units: 1.5
Hours: 3-0-0
Greek Art and Archaeology
Material culture of the Greece Bronze Age through the Hellenistic period. Architecture, sculpture and the minor arts as evidence for cultural attitudes towards humankind, the gods, and the physical world. Selected monuments are illustrated through a variety of media.
Note: Credit will be granted for only one of GRS 371, AHVS 316, CLAS 371, HA 316.
Recommendation(s): GRS 203 or GRS 361 recommended prior to GRS 371.

GRS 372
Units: 1.5
Hours: 3-0-0
Roman Art and Archaeology
Survey of Roman material culture relating artistic expression to the political and social developments of the Roman people. Examination of Etruscan art and architecture for its formative influence on Roman culture; Republican and Imperial Roman art in the context of historical events. Topics include the special character of Roman art, Hellenized and Italic modes of expression, portraiture, historical reliefs, function in art and architectural space and city planning.
Note: Credit will be granted for only one of GRS 372, AHVS 317, CLAS 372, HA 317.
Recommendation(s): One of GRS 203, GRS 348, GRS 371 recommended prior to GRS 372.

GRS 374
Units: 1.5
Hours: 3-0-0
Pompeii and Herculaneum
Explores two well-preserved ancient cities and their environs, in an effort to determine what they reveal about urban life in Roman Italy. Attention is given to urban planning and infrastructure, domestic architecture, the messages of graffiti, commercial and industrial life, and the daily activities of inhabitants.
Recommendation(s): GRS 203 or GRS 372 recommended prior to GRS 374.

GRS 375
Units: 1.5
Hours: 3-0-0
Ancient Technology
Introduction to the applied technologies of the Greek and Roman cultures. Presents both ancient written sources and archaeological remains from the Late Bronze Age through to the late Roman Empire. Topics include machinery and gadgets, mass production, engineering, nautical technology and labour.
Note: Credit will be granted for only one of GRS 376, CLAS 376.
Recommendation(s): One of GRS 203, GRS 371, GRS 372 recommended prior to GRS 376.

GRS 377
Units: 1.5
Hours: 3-0-0
Ships and Seamanship in the Ancient World
Introduction to the maritime archaeology and marine technology of the Bronze Age Near Eastern, Greek and Roman cultures, using the evidence presented by archaeological remains of ships and harbours, and ancient visual representations and literary texts. Topics include harbour and ship design and construction, equipment, sailing techniques, navigation and underwater archaeology.
Recommendation(s): One of GRS 203, GRS 371, GRS 372 recommended prior to GRS 377.

GRS 379
Units: 1.5
Hours: 3-0-0
Early Greek Thought
Examination of early Greek thought as embodied in Hesiod and Presocratic such as Heraclitus, Anaxagoras, Parmenides and Democritus. These figures may be considered in the context of historical and literary writings of their society (e.g., works by Aeschylus, Herodotus, Thucydides). Topics may include: distinctions among myth, science and philosophy, notions of law, morality and causality; the influence of early Greek thought on later thinkers.
Note:
• Credit will be granted for only one of GRS 379, CLAS 379, PHIL 379, PHIL 381
• Does not presuppose a background in either Greek and Roman studies or Philosophy.
Recommendation(s): Minimum third-year standing recommended.

GRS 380
Units: 1.5
Hours: 3-0-0
The Life and Times of Socrates
Examination of a critical moment in Greek intellectual and political life, as seen from various points of view. Topics include: Socrates’ trial and its background; the rise of the Socratic conception of philosophy and its relation to the methods of the Sophists; perceived Socratic challenges to religious and social mores; written vs. unwritten philosophy; types of Socratic literature.
Note: Credit will be granted for only one of GRS 380, CLAS 380, PHIL 383.
Recommendation(s): Minimum third-year standing recommended.

GRS 381
Units: 1.5
Hours: 3-0-0
Greek and Roman Religion
Survey of Greek and Roman religious thought and practices. Focuses on conventional religious rituals and their social value, and on the success of Greek and Roman polytheism in adapting to changing historical and social circumstances. Particular attention to mystery religions, including Christianity, and their relationship to conventional forms of religious behaviour.
Note: Credit will be granted for only one of GRS 381, CLAS 381.
Recommendation(s): Minimum second-year standing recommended.
GRS 395 - HDCC 300

Classical Studies Abroad
Extensive overview of monuments and material culture through participation in an on-site study trip abroad. Emphasis is placed on archaeology, history and architecture.
Notes:
• May be taken more than once for credit in different topics with permission of the department.
• Interested students should contact the department during the Fall Term.
Prerequisite(s): Permission of the department.
Recommendation(s): GRS 361 and GRS 371 recommended.

GRS 432 Units: 1.5 Hours: 3-0-0
The Ancient Economy
Examines the literary, documentary and archaeological evidence for the economic development of the Greco-Roman Mediterranean. Topics may include the primitivist-modernist controversy, and the relative influence of urbanization, social equality, capital accumulation, technology, education and legal and political institutions on economic development.
Prerequisite(s): Minimum third-year standing.
Recommendation(s): GRS 332 or GRS 342 recommended.

GRS 443 Units: 1.5 Hours: 3-0-0
The Athenian Empire
Study of Athenian history from the Persian Wars until the end of the Peloponnesian War, focusing on her hegemony in the Eastern Mediterranean and rivalry with Sparta. Topics include the nature of the Athenian Empire, the Pentekontaetia, the social, economic, and cultural importance of Athenian democracy, the Pelican building program, the Athenian theatrical festivals and the conduct of the Peloponnesian war.
Prerequisite(s):
• GRS 331 or GRS 462; or
• permission of the department.

GRS 461 Units: 1.5 Hours: 3-0-0
Greece and the Near East
Focuses on early Greek relations with the cultures of the wider Near East, including the Hittites, Phrygians, and Lydians in Anatolia, the people of Mesopotamia and the Egyptians. Examines the role of these groups in forming Greek identity and discusses the topics of multi-culturalism and diversity in the ancient world.
Prerequisite(s):
• One of GRS 337, GRS 361, GRS 371, GRS 395; or
• permission of the department.

GRS 462 Units: 1.5 Hours: 3-0-0
Archaeology of Athens
Examines the topography and monuments of Athens from the Neolithic to the Roman period. Examines primarily the physical remains of the city and countryside to trace the development of one of the most important city-states in the Greek world and to understand its impact on western civilization.
Prerequisite(s):
• One of GRS 371, GRS 395, GRS 443; or
• permission of the department.

GRS 480A Units: 1.5 Hours: 2-0-0
Seminar in Greek History
Notes:
• Credit will be granted for only one of GRS 480A, CLAS 480A (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s):
• GRS 331; and
• minimum third-year standing; or
• permission of department.

GRS 480C Units: 1.5 Hours: 2-0-0
Seminar in Roman History
Notes:
• Credit will be granted for only one of GRS 480C, CLAS 480C (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s):
• One of GRS 341, GRS 342, GRS 344, GRS 349, GRS 350; and
• minimum third-year standing; or
• permission of the department.

GRS 482A Units: 1.5 Hours: 3-0-0
Formerly: GRS 480B
Seminar in Greek Archaeology
Notes:
• Credit will be granted for only one of GRS 482A, GRS 480B (if taken in the same topic), CLAS 480B (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s):
• GRS 361 or GRS 371; or
• permission of the department.

GRS 482B Units: 1.5 Hours: 3-0-0
Seminar in Roman Archaeology
Notes:
• Credit will be granted for only one of GRS 482B, GRS 480B, CLAS 480D (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s):
• GRS 372; or
• permission of the department.

GRS 493 Units: 1.5 Hours: 2-0-0
Directed Study in Greek or Roman Civilization
Intensive study of selected programs in Greek or Roman history, society, art, or archaeology. Students will prepare an extended research paper, drawing on both primary and secondary sources. Introduction to epigraphy, numismatics, papyrology, where appropriate.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Students should attempt to make arrangements with the instructor before the start of term.
Prerequisite(s): Permission of the department.
HDCC 390 - HINF 310

HDCC 390  Units: 1.5  Hours: 3-0-0
Special Topics in the Human Dimensions of Climate Change
An interdisciplinary investigation of a selected topic that emerges from the study of the human dimensions of climate change.

Prerequisite(s):
• HDCC 200 or HDCC 300, and
• Two of ANTH 347, ANTH 341, ECON 381, ECON 382, ES 301, ES 480, GEOG 373, LAW 328, LAW 329, PHIL 333, POLI 357, POLI 377, POLI 458, PSYC 350, PSYC 431E, SOCI 465; or
• permission of the program.

HINF 115  Units: 1.5  Hours: 3-2-0
Programming for Healthcare
Computer programming for healthcare information technology and systems development will be covered. Topics include languages for scripting, programming, and data exchange and visualization in healthcare information systems. Examples and techniques tailored to healthcare applications will be emphasized, such as programming for health decision support, electronic health records and mobile health applications. Open source system programming and prototyping for healthcare will also be covered.

Note: Students not Majoring in Health Information Science may request permission to register in the course.

Prerequisite(s):
• CSC 110; and
• admission to BSc program in Health Information Science; or
• permission of the school.

HINF 130  Units: 1.5  Hours: 3-2-0
Introduction to Health Information Technology
Health information systems are comprised of computer programs generated using a variety of data manipulation and management techniques. Covers the general application of databases and spreadsheets to health information management. In addition, many specific health care applications such as electronic health records, mobile health applications, medical graphics, multi-media medical information systems, public health information systems, decision support systems, networked systems, wearable health applications and bioinformatics will be addressed.

Note: Credit will be granted for only one of HINF 130, HINF 172.

HINF 140  Units: 1.5  Hours: 3-0-0
Introduction to the Canadian Health Care Systems
A comprehensive and critical understanding of the Canadian healthcare system, its development and current problems and issues. Introduces students to the origins, structure, and key issues of the provincial and federal roles in healthcare; and provides students with an integrated orientation regarding its major components. Focuses on the Canadian health care system but provides a comparison of the Canadian system with that of other countries with regards to the structure, healthcare delivery, and health outcomes.

Note: Credit will be granted for only one of HINF 140, HINF 240.

HINF 200  Units: 1.5  Hours: 3-2-0
Principles of Health Database Design
Addresses the issues facing a database designer in the development of database applications appropriate for health data of various kinds. Includes the elements of conceptual, implementation and physical database design to support health information systems. Topics include: healthcare database management systems (DBMS) and their components, appropriate modeling techniques for database design, relational databases using standard tools and techniques, main trends, current technologies and management issues in database.

Note: Credit will be granted for only one of HINF 200, HINF 300, CSC 370.

Corequisite(s):
• HINF 130 and CSC 110; and
• MATH 151 or MATH 122.

HINF 201  Units: 1.5  Hours: 0-3-0
Database Management and Development for Health Care Systems
Provides students with hands-on lab experience with SQL and a sophisticated, full-scale multi-platform database management system such as Oracle. Using a set of accompanying tools, students 1) explore the architecture of a database management system, 2) design a database, 3) implement a database, 4) maintain and administer a database, 5) manage application security and 6) develop prototypes of database applications. Students are able to transfer this experience to other database management systems.

Note: Credit will be granted for only one of HINF 201, HINF 301.

Prerequisite(s):
• HINF 200 or CSC 370; or
• permission of the school.

HINF 230  Units: 1.5  Hours: 3-0-0
Organizational Behaviour and Change Management
Techniques for the management of individual, group and intergroup behaviour in health care organizations, including decision making and problem solving, work groups, leadership, power and influence, labour relations, process engineering and risk management.

HINF 265  Units: 1.5  Hours: 3-2-0
Health Care Delivery Organizational Models
An introduction to the ways in which health organizations are managed and financed to deliver health care. Topics may include: organization theory, power and culture, division of labour, command and control in health care versus other industries, governance structures and integrated delivery system models.

Pre- or Corequisite(s): HINF 140 and HINF 230.

HINF 280  Units: 1.5  Hours: 3-0-0
Biomedical Fundamentals
Presents the principles of biochemistry, organ physiology and selected examples of pathology in order to provide the fundamentals required for understanding in future studies. All body systems are briefly reviewed and discussions of medical case studies are conducted. Emerging topics in health informatics including bioinformatics and genomics are discussed.

Note: Credit will be granted for only one of HINF 280, HINF 180.

Prerequisite(s): One of Biology 12, BIOL 102, BIOL 150A, BIOL 150B, BIOL 186, EPHE 141.

HINF 310  Units: 1.5  Hours: 3-2-0
Electronic Records and Decision Support Systems
Provides students with an in-depth understanding of the technologies that make up electronic health records and decision support systems. Topics include electronic health records (vendor based and open source), departmental systems (e.g. lab, pharmacy, intensive care) picture archiving and communication systems (PACS), computerized physician order entry (CPOE), clinical data repositories, health plans, patient portals, personal health records and data warehouses.

Prerequisite(s):
• HINF 115 or CSC 115; and
• HINF 200; and
• admission to BSc in Health Information Science or Combined BSc in Health Information Science and Computer Science; or
• permission of the school.
**HINF 320**  
**Units:** 1.5  
**Hours:** 3-2-0  
**Project Management**  
Introduction to the essentials of health project management and the project life cycle in health care. Topics may include project charter, network diagramming, management of scope, stakeholder identification, cost management, scheduling and risk management.  
**Prerequisite(s):**  
- Admission to BSc in Health Information Science or Combined BSc in Health Information Science and Computer Science; or  
- permission of the school.  
**Pre- or Corequisite(s):** HINF 140 and HINF 230.  

**HINF 330**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Legal and Security Issues in Health Informatics**  
Introduces students to legal aspects of their profession, including aspects of confidentiality, privacy, legal liability of software systems and contractual issues. Students gain an appreciation for legal terminology, reasoning, and processes as well as basic principles of law which apply to and govern health systems in Canada. Topics in cyber security strategies for health IT are discussed.  
**Note:** Credit will be granted for only one of HINF 330, NURS 487.  
**Prerequisite(s):**  
- Admission to BSc in Health Information Science or Combined BSc in Health Information Science and Computer Science; or  
- permission of the school.  

**HINF 335**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Health Information Standards**  
A study of health information standards being deployed and used in Canada and elsewhere. The standards examined include data, messaging and terminology standards such as HL7v2.X, HL7v3, HL7-CDA, IHE, FHIR, ICD10, LOINC, SNOMED CT, and nursing terminologies. Topics include the nature of standards, their historical evolution and lifecycles for standards from initial development, distribution to maintenance. Emphasis will be on practical knowledge and skills in how to work with standards.  
**Prerequisite(s):**  
- HINF 130 and HINF 280; and  
- admission to BSc in Health Information Science or Combined BSc in Health Information Science and Computer Science; or  
- permission of the school.  

**HINF 345**  
**Units:** 1.5  
**Hours:** 3-2-0  
**Networks, Interoperability and Systems Security**  
A management perspective to data communications technology, networks, and distributed processing. Emphasis is on examining the impact of emerging communications technology on health information systems in varying sectors of the health care delivery system. Topics may also include electronic health record networking, interoperability and standard clinical archetypes, technical aspects of cybersecurity, telehealth, home health care monitoring and pervasive computing in healthcare.  
**Note:** Credit will be granted for only one of HINF 345, HINF 445.  
**Prerequisite(s):**  
- HINF 201; and  
- admission to BSc in Health Information Science or Combined BSc in Health Information Science and Computer Science; or  
- permission of the school.  

**HINF 350**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Human Aspects of Healthcare Information Systems**  
Human aspects of health informatics. Includes discussion of the use of technology to support clinical decision making and decrease the incidence of errors in healthcare. Topics include: information retrieval and cognitive processes, decision making and reasoning, human-computer interaction and usability engineering, patient safety and error reduction, evidence-based medicine, mHealth, consumer informatics, eHealth literacy and workflow analysis.  
**Prerequisite(s):**  
- Admission to BSc in Health Information Science or Combined BSc in Health Information Science and Computer Science; or  
- permission of the school.  

**HINF 351**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Information Technology Procurement**  
Investigation of the methodologies and processes used to select Information Technology (IT), for health care organizations and governments. The primary goal is to appreciate the dynamics and compromises that take place, particularly when health organizations and governments procure IT to support patients and the public. Students are encouraged to think from a clinical point of view, as well as a technical and management perspective.  
**Note:** Credit will be granted for only one of HINF 351, HINF 451.  
**Prerequisite(s):**  
- Admission to BSc in Health Information Science or Combined BSc in Health Information Science and Computer Science; or  
- permission of the school.  

**HINF 371**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Clinical Methodologies**  
The process of clinical decision making in diagnosis, treatment, planning and prognosis will be covered. Topics may include use of electronic systems in improving the clinical decision making process such as preventing diagnostic errors, integrating evidence based medicine and clinical guidelines, and improving team-based decision-making. Factors affecting policy-level decision making and its relationship with the information systems are explored.  
**Note:** Credit will be granted for only one of HINF 371, HINF 270.  
**Prerequisite(s):**  
- HINF 280; and  
- admission to BSc in Health Information Science or Combined BSc in Health Information Science and Computer Science; or  
- permission of the school.  

**HINF 381**  
**Units:** 1.5  
**Hours:** 3-2-0  
**Epidemiology, Population Health and Public Health**  
An introduction to the principles and methods of epidemiology particularly as they apply to population health. Topics may include measurements of disease occurrence, study designs (cohort, case-control, randomized clinical trials), surveillance systems, population health, public health information systems for infectious and chronic diseases, health promotion and disease prevention issues.  
**Note:** Credit will be granted for only one of HINF 381, HINF 380.  
**Prerequisite(s):**  
- 1.5 units of STAT courses; and  
- admission to BSc in Health Information Science or Combined BSc in Health Information Science and Computer Science; or  
- permission of the school.  

**HINF 410**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Information Management and Technology**  
Critically examines the application of state-of-the-art IM&T principles and methods in the public and private sectors and the degree to which they apply to Canadian health care organizations. Provides students with a background in health information management and information technology (IT) strategy from a private and public sector organizational perspective. Students will identify strategies and approaches to ensuring managers, clinicians, patients and the public receive information at the right time in a cost-effective manner.  
**Prerequisite(s):** All of HINF 001, HINF 310, HINF 351.  

**HINF 420**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Societal Implications of Information Technology**  
Reflects on the societal and ethical implications of health information technologies (IT). Provides an examination of some of the systemic and societal issues related to the IT revolution. Examines how IT has affected, and will continue to affect, the human condition as seen from individual and community perspectives. The goal is to achieve a balanced understanding of how IT affects the human condition— as seen from individual, regional and global perspectives. Only open to fourth-year HINF students.  
**Prerequisite(s):** All of HINF 001, HINF 002, HINF 310, HINF 320, HINF 371.
HINF 450 - HLTH 401

HINF 450  Units: 1.5  Hours: 3-2-0  
Health Information System Design  
Students develop and demonstrate a systematic understanding of software systems design and its connection to requirements engineering, modelling (including modelling), system analysis, system implementation, and system verification. Provides coverage of the specific requirements of the development of contemporary and future information systems in health care. Covers the technical principles underlying such systems. Knowledge and skills required for the design, implementation, maintenance and replacement of complex information systems in health care are developed.  
Prerequisite(s): All of HINF 001, HINF 200, CSC 375.

HINF 461  Units: 1.5  Hours: 3-0-0  
System Evaluation and Quality Improvement  
Examination of key concepts, methods, and approaches in the field of evaluation. Topics may include: formative and summative evaluation, quantitative and qualitative methods, developing performance metrics, total quality management (TQM), core principles of clinical quality improvement (CQI), balanced scorecards and dashboards.  
Note: Credit will be granted for only one of HINF 461, HINF 460.  
Prerequisite(s): HINF 001 and HINF 381.

HINF 470  Units: 1.5  Hours: 3-2-0  
Trends in Health Informatics  
Exposes students to the changing topics in health informatics and the emerging trends in health information technology. Topics may include: electronic health records, consumer health informatics, personalized health records, mobile technology, telemedicine, bioinformatics, precision medicine, business intelligence and big data. Students have the chance to review current published work and speak to experts in the field. Culminates with a capstone project.  
Prerequisite(s):  
•  HINF 001; and  
•  HINF 115 or CSC 115.

HINF 490  Units: 1.5 or 3.0  
Directed Study  
Students wishing to pursue a course of directed readings or of a directed project should consult with a faculty member willing to supervise such a course, formulate a proposal describing both the content of the course and a suitable means of evaluating the student’s work.  
Note: May be taken more than once for credit in different topics to a maximum of 3 units.  
Prerequisite(s): HINF 001.

HINF 491  Units: 1.5 or 3.0  Hours: 3-0-0 or 6-0-0  
Topics in Health Informatics  
Advanced topics in various areas of health informatics. Entry to this course will be restricted to third- and fourth-year students.  
Note: May be taken more than once for credit in different topics.  
Prerequisite(s):  
•  HINF 001; and  
•  Minimum third-year standing.

HLTH 400 - HLTH 410

HLTH 400 - HLTH 410

HLTH 250  Units: 1.5  
Current Issues in Health and Community Services  
Explores major contemporary issues in Canadian health and social services delivery, using a life course and social determinants perspective. Students will be introduced to a variety of issues in health care and social services, and develop an understanding of different perspectives on complex social issues that are addressed through our health, social and other public and private service delivery systems.  
Note: Credit will be granted for only one of HLTH 250, HLTH 480 (if taken in the same topic).

HLTH 251  Units: 1.5  
Healthy Sexuality  
Human sexuality is a multi-faceted concept, influenced by biological, cultural, environmental, historical, psychological, and societal contexts. Students will explore the dynamic role sexuality plays in human experience and the mechanisms by which individuals can achieve healthy sexuality. Course readings, assignments and class activities will encourage students to explore the complexities of human sexuality from a number of perspectives.  
Note: Credit will be granted for only one of HLTH 251, HSD 460 (if taken in the same topic).

HLTH 300  Units: 1.5  
Determinants of Health and Population Health Promotion  
Begins with conceptualizations of health, starting with individual constructions and moving toward a complex integrated understanding of health as a social and cultural construct. Understanding the broad determinants of health includes a critical examination of inequalities in health. A range of population health promotion interventions is explored, from healthy public policy to the re-orientation of the health care system.  
Prerequisite(s): HLTH 251.

HLTH 301  Units: 1.5  
Canadian Health and Community Care Services  
Focuses on the evolution of Canada’s health care system and the community services sector. Current events are used to explore current and future challenges and successes within health and community services sectors. Students will learn about relevant health professions and inter-professional practice.

HLTH 302  Units: 1.5  
Health Program Planning and Project Management  
Provides an introduction to health program planning and project management within the health sector. Included in the course is an exploration of health planning within the context of primary health care; health promotion and disease prevention as well as the management of chronic illness. Project planning and management as well as an examination of project cycles; effective project design, implementation and evaluation are explored. Project team building and leadership are examined.

HLTH 303  Units: 1.5  
Practice of Evaluation Research  
Reviews basic research practices in health research, examines research questions in relation to health, provides an overview of research methodologies and introduces current ethical debates in health research.

HLTH 304  Units: 1.5  
Promoting Healthy Sexualities  
On campus three module course presenting social constructions of sexuality, living diverse sexualities and promoting healthy sexualities. The first explores the ways sexuality has been socially constructed within cultures and disciplines. The second examines diverse sexualities that exist within Canada today. The third module focuses on services to promote and support healthy sexualities.

HLTH 305  Units: 1.5  
Human Resource and Fiscal Management in Community Health Systems  
Human resource and fiscal management within the context of health systems delivery is the focus of this course. Health services planning including human resource planning, recruitment, determination of skills and competencies; staff development and evaluation, conflict management are explored. The financial context of health service delivery and an introduction to the principles and practices of unit based finance and budgeting are explored. Students examine budget funding requests and justifications within the context of proposal development.
HLTH 402 - HSD 390  481

COU RSE LISTINGS HS

HLTH 402  Units: 1.5
Health and Community Supportive Technologies
Explores technologies that support people to live in their communities; from the general, such as universal design principles for architecture, ageing-friendly communities, and multi-modal transportation to the specific, such as smart home technologies that adapt quickly to changes in function and communications systems for people with very limited use of hands and limbs. Includes a critical review of various types of health technologies and information systems; their effective use and impact.

HLTH 403  Units: 1.5
Community Development and Capacity Building
Focuses on developing fundamental knowledge of community engagement, community development, community asset mapping, and capacity building. Connecting, collaborating and advocacy will be explored as foundational skills in the promotion of community well-being.

HLTH 404  Units: 1.5
Inter-Professional Practice
Critically examines the issues inherent in professional practice within health and community services. Also utilizes case studies from other service industries. Explores ethics, communication, team-building, professionalism and other critical factors that facilitate or create barriers to collaboration. Practice examples are used to present benefits and costs of collaboration and develop team-building resources for professional development.

HLTH 405  Units: 1.5
Advocacy for Ageing and Disability in Canadian Society
Students explore the concepts of ageing, disability, caring and activism. Societal and political determinants of well-being and full citizenship are examined along with different strategies of advocacy. Consideration is given to contemporary challenges for individuals, family and communities as they engage in caregiving activities as well as advocacy roles in relation to health and social service agencies and public policy systems and social programs in the Canadian context.
Note: Credit will be granted for only one of HLTH 405, AGEI 470, AGEI 471, DSST 442, DSST 443.

HLTH 406  Units: 1.5
Indigenous Global Health
Examines Indigenous health within a global context. Focuses on social, political and ecological determinants of Indigenous health. Explores the roles of globalization and colonization on Indigenous health as well as culturally appropriate models of Indigenous health and community work.
Notes:
• Credit will be granted for only one of HLTH 406, INGH 450, INGH 451, INTS 461, PHSP 591 (if taken in the same topic).
• May be offered as a joint undergraduate and graduate class.

HLTH 425  Units: 1.5
Quantitative Methods
An introduction to descriptive and basic inferential statistics. Various quantitative statistical techniques used in health research are explored and applied using MS Excel software.
Notes:
• Credit will be granted for only one of HLTH 425, NURS 425.
• Students must have access to a PC Windows platform for this course.

HLTH 430  Units: 3.0
Practicum
All degree students are required to complete a 150 hour practicum. This planned, supervised and evaluated experience is usually completed at the end of the student’s program of study.
Notes:
• Students who have completed all core, area of focus and elective courses may request permission to register in the course.
• Must be taken at the same time as HLTH 435.
Prerequisite(s): Permission of the school.

HLTH 435  Units: 3.0
Culminating Major Paper
As a culmination of their practice experience students are required to complete a project that demonstrates a synthesis and integration of coursework and other learning experiences.
Notes:
• Students who have completed all core, area of focus and elective courses may request permission to register in the course.
• Must be taken at the same time as HLTH 430.
Prerequisite(s): Permission of the school.
Grading: INP, COM, F or N.

HLTH 430 - HSD 390

HS

Health and Society
Interdisciplinary Programs

HS 200  Units: 1.5  Hours: 3-0-0
Health and Society
Theories of health and health research, team-taught from perspectives in Social Sciences, Education, Human & Social Development and Humanities. An overview of the dimensions of health and health research focusing on relationships between the social - including political, economic, cultural, institutional dimensions - and the environmental and biological dimensions of health. Students will learn about key thinkers associated with health studies in order to develop a comprehensive and critical understanding of health related issues.

HS 400A  Units: 1.5
Directed Experiential Learning in Health and Society: Research
A capstone course providing the opportunity for students to obtain direct experience in the process of doing health research. This investigation will be a culminating examination of a topic selected by the student that fits within one of five health-related focus areas including Aboriginal health, addictions & mental health, aging, disability, and children and youth. Students are responsible for identifying a supervisor and getting approval from the program director.
Prerequisite(s):
• HS 200; and
• declared General or Minor program in Health and Society.

HS 400B  Units: 1.5
Directed Experiential Learning in Health and Society: Community Service
A capstone course providing the opportunity for students to obtain direct experience being involved in community based health-sector activities; for example, volunteering at a homeless shelter or working with people with disabilities. Students are responsible for proposing a community placement, and getting approval from the program director.
Prerequisite(s):
• HS 200; and
• declared General or Minor program in Health and Society.

HSD

Human and Social Development
Interdisciplinary Courses
Faculty of Human and Social Development

HSD 390  Units: 1.5 or 3.0
Directed Studies
Individual studies involving directed readings, projects, or special studies under the direction of a faculty member. A proposal is developed in consultation with a faculty member and includes a plan for the evaluation of the student's work. The proposal must be approved by the Dean before students are allowed to register.
Notes:
• May be taken more than once for credit in different topics.
• Offered as resources permit.
HSD 460 - HSTR 112A

HSD 460  
Units: 1.5  
Hours: 3-0-0  
Special Topics in Human and Social Development  
A variable content course which will focus on current and emerging issues in the human services. Examples of appropriate content include the prevention and treatment of alcohol and drug abuse and cross-cultural issues in the human services.  
Notes:  
• May be taken more than once for credit in different topics to a maximum of 3 credits.  
• Offered as resources permit.  
• May be offered as a joint undergraduate and graduate class.  
Prerequisite(s):  
• Minimum third-year standing, and  
• admission to a program in Human and Social Development.

HSD 490  
Units: 1.5 or 3.0  
Directed Studies  
Individual studies involving directed readings, projects, or special studies under the direction of a faculty member.  
A proposal is developed in consultation with a faculty member and includes a plan for the evaluation of the student's work.  
The proposal must be approved by the Dean before students are allowed to register.  
Notes:  
• May be taken more than once for credit in different topics.  
• Offered as resources permit.

HSTR 101C  
Units: 1.5  
Hours: 3-0-0  
Epidemics from the Black Death to AIDS  
Explores the demographic, social and cultural changes brought by epidemic disease from the 14th century to the 21st century. Topics include The Black Death, syphilis in society and literature, smallpox and the Aztec conquest, cholera and the industrial cities, investigation of the influenza viruses and the emergence and early history of AIDS.  
Note: Credit will be granted for only one of HSTR 101C, HSTR 355, HIST 101 (if taken as section A02 in 201309), HIST 264.

HISTR 101D  
Units: 1.5  
Hours: 3-0-0  
History of Money  
Explores the role of money in politics, culture and the economy from the ancient economy to the slave trade, from coins to bills to credit cards. Topics include coin production and counterfeiting, credit and commercialism, money and warfare and how and why we value money in society.

HISTR 101E  
Units: 1.5  
Hours: 3-0-0  
Environmental History of the World  
Explores the interaction between humankind and the global environment with emphasis on the post-1492 period. Central topics include the agricultural revolution, animal domestication, the Columbian Exchange, capitalism and industrialization, the impact of fossil fuels, species extinction, climate change, and environmentalism.

HISTR 101F  
Units: 1.5  
Hours: 3-0-0  
Food in World History  
Examines human history through the lens of food. By studying how people have collected, cultivated, exchanged, consumed and imagined food over the course of 200,000 years, it will demonstrate the intersection of food history with the histories of migration, empire, environment, gender, sexuality, race, labour, art and technology. Students will develop new skills in historical thinking and an improved understanding of the historical underpinnings of their relationships to food today.

HISTR 109  
Units: 1.5  
Hours: 3-0-0  
Global Society since 1400  
Studies major processes and events in various parts of the world since the late middle ages and the 15th - century European maritime expansions, particularly of Portugal and Spain. Examines linkages between different kinds of historical change and between different regions of the globe. Topics include population growth, wars and revolutions, social and religious movements, cultural transfers, economic development and upheaval, biological exchanges and ecological challenges, innovations in science and technology and imperialism and resistance.  
Note: Credit will be granted for only one of HISTR 109, HIST 101 (if taken in the same topic).

HSTR 110  
Units: 1.5  
Hours: 3-0-0  
Formerly: HIST 206  
Conquest and Encounter in the Atlantic World, 1492-1700  
Survey of the earliest encounters of Europeans and American peoples and the formation of societies in a new Atlantic World. Topics include demographic changes brought by epidemic diseases, patterns of conquest and accommodation among explorers and diverse Amerindian cultures, and the exchange of goods, ideas and peoples across the Western hemisphere.  
Note: Credit will be granted for only one of HSTR 110, HIST 206, HIST 265 (if taken in the same topic).

HSTR 111  
Units: 1.5  
Hours: 3-0-0  
Formerly: HIST 105  
Age of Encounters in the Pacific World, 1700-1900  
Examines the interactions of peoples and empires in the Pacific World with particular emphasis on the challenges of modernity and migration. An introduction to the cultural interactions of peoples in Asia. Focus on how peoples of China, Japan and India shaped their worlds in an age of conflicts with old and new imperialisms. Includes early migration to British Columbia and other parts of Canada.

HSTR 112  
Units: 3.0  
Hours: 3-0-0  
Formerly: HIST 105  
World History, 1900 - present  
Broad interpretive survey of the major forces that have shaped the world since the beginning of the twentieth century. Emphasis on growing inter-state rivalries, Western colonialism, the two world wars, the economic crises of the early twentieth century, the rise of totalitarianism, the Cold War and the rise of major states within the Third World, as well as on growing interdependence among states.  
Note: Credit will be granted for only one of HSTR 112, HIST 105, HIST 105A, HIST 105B, HIST 242.  
Recommendation(s): HSTR 112, or HSTR 112A and HSTR 112B recommended for students wishing to take advanced courses in twentieth century history and comparative history.

HSTR 112A  
Units: 1.5  
Hours: 3-0-0  
Formerly: HIST 105A, part of HIST 105  
World History 1900-1945  
Broad interpretive survey of the major forces that have shaped the world from the late nineteenth century until the mid twentieth century. Emphasis on growing inter-state rivalries, Western colonialism, the two world wars, the economic crises of the early twentieth century and the rise of totalitarianism.  
Note: Credit will be granted for only one of HSTR 112A, HIST 105, HIST 105A, HIST 242.  
Recommendation(s): HSTR 112, or HSTR 112A and HSTR 112B recommended for students wishing to take advanced courses in twentieth century history and comparative history.
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<th>Course Code</th>
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| HSTR 112B  | 1.5   | 3-0-0 | Formerly: HIST 105B, part of HIST 105  
The World Since 1945-present  
Broad interpretive survey of the major forces that have shaped the world since the Second World War. Emphasis on the legacy of the Second World War, phases of the Cold War, decolonization and the rise of major states within the Third World, as well as on growing interdependence among states.  
Note: Credit will be granted for only one of HSTR 112B, HIST 105, HIST 105B, HIST 242.  
Recommendation(s): HSTR 112, or HSTR 112A and HSTR 112B recommended for students wishing to take advanced courses in twentieth century history and comparative history. |
| HSTR 115   | 1.5   | 3-0-0 | Formerly: HIST 245  
The Second World War  
Survey of the military, diplomatic, economic, social and political aspects of this global conflict. The causes and ramifications of the war will also be considered.  
Note: Credit will be granted for only one of HSTR 115, HIST 245.  
Recommendation(s): Recommended for students wishing to take advanced courses in military history. |
| HSTR 119   | 1.5   | 3-0-0 | Deportation and Exile  
Surveys a global history of political banishment. Covers a wide range of historical examples from ancient times to the present day, including the Babylonian Captivity, mass displacements in Europe and the exile of Acadians and Japanese Canadians from Canada. Examines how deportation and exile have been used by political authorities and communities, with a focus on how political banishment has been understood, exercised and experienced. |
| HSTR 120   | 1.5   | 3-0-0 | History of Human Rights  
Examines the emergence of human rights in the West from the classical Greeks to 9/11 and the impact of these ideas on global history. Topics include censorship, political repression, gender discrimination and torture. |
| HSTR 121A  | 1.5   | 3-0-0 | History, Music and the American Century  
Explores central issues in post-1880 U.S. history by examining the interplay between political culture and popular music. Major themes include the rise and fall of Jim Crow segregation, technological change, Cold War culture, the Vietnam War and the protest movements, changing gender relations and the debate over globalization. |
| HSTR 122A  | 1.5   | 3-0-0 | Conspiracies, Hoaxes and Moral Panics  
Topics and themes range from medieval anti-Semitism to witchcraft persecutions, 17th-century anti-Catholicism, Tulip-mania, the South Sea Bubble, McCarthyism and alien abduction. |
| HSTR 130   | 1.5   | 3-0-0 | Formerly: HIST 261  
History of Technology  
Survey of the consequences of technological change on society since the beginning of the Industrial Revolution. Topics include: transportation, communications, military, industrial and domestic technology.  
Note: Credit will be granted for only one of HSTR 131, HIST 261. |
| HSTR 131   | 1.5   | 3-0-0 | Formerly: HIST 261  
Disease, Medicine and Society, 1500-present  
Surveys Western medicine from the Renaissance to the present. Topics include the evolution of medical professions, anatomical learning, the introduction of germ theory, and key developments in disease treatment and technology.  
Note: Credit will be granted for only one of HSTR 132, HIST 355, HIST 263, HIST 264, HIST 265 (if taken in the same topic).  
Recommendation(s): HSTR 265 Topics in History  
Notes:  
• Credit will be granted for only one of HSTR 200, HIST 265 (if taken in the same topic).  
• May be taken more than once for credit in different topics with permission of the department. |
| HSTR 132   | 1.5   | 3-0-0 | Disease, Medicine and Society, 1500-present  
Surveys Western medicine from the Renaissance to the present. Topics include the evolution of medical professions, anatomical learning, the introduction of germ theory, and key developments in disease treatment and technology.  
Note: Credit will be granted for only one of HSTR 132, HIST 355, HIST 263, HIST 264, HIST 265 (if taken in the same topic).  
Recommendation(s): HSTR 265 Topics in History  
Notes:  
• Credit will be granted for only one of HSTR 200, HIST 265 (if taken in the same topic).  
• May be taken more than once for credit in different topics with permission of the department. |
| HSTR 132B  | 1.5   | 3-0-0 | Formerly: part of HIST 110  
The United States to the Civil War  
Survey of U.S. history from the pre-Columbian period to the end of Civil War. Major themes include the colonial origins of the United States, the development of American slavery and the role of race, gender, and class in shaping U.S. understandings of freedom, equality and democracy. Emphasizes critical reading, document analysis and in-class discussion.  
Note: Credit will be granted for only one of HSTR 210A, HIST 110. |
| HSTR 132C  | 1.5   | 3-0-0 | Formerly: part of HIST 110  
The United States from Post-War Reconstruction - present  
Survey of U.S. history from the post-Civil War Reconstruction to the present. Major themes include the impact of industrialization, the shifting role of the federal government and role of protest, in particular the Civil Rights Movement, in redefining freedom and democracy in the United States. Emphasizes critical reading, document analysis, and in-class discussion.  
Note: Credit will be granted for only one of HSTR 210B, HIST 110.  
Recommendation(s): HSTR 210A recommended prior to HSTR 210B. |
| HSTR 133   | 1.5   | 3-0-0 | Formerly: HIST 261  
History of Technology  
Survey of the consequences of technological change on society since the beginning of the Industrial Revolution. Topics include: transportation, communications, military, industrial and domestic technology.  
Note: Credit will be granted for only one of HSTR 131, HIST 261. |
| HSTR 200   | 1.5   | 3-0-0 | Formerly: HIST 263  
Disease, Medicine and Society, 1500-present  
Surveys Western medicine from the Renaissance to the present. Topics include the evolution of medical professions, anatomical learning, the introduction of germ theory, and key developments in disease treatment and technology.  
Note: Credit will be granted for only one of HSTR 132, HIST 355, HIST 263, HIST 264, HIST 265 (if taken in the same topic).  
Recommendation(s): HSTR 265 Topics in History  
Notes:  
• Credit will be granted for only one of HSTR 200, HIST 265 (if taken in the same topic).  
• May be taken more than once for credit in different topics with permission of the department. |
| HSTR 210A  | 1.5   | 3-0-0 | Formerly: part of HIST 110  
The United States to the Civil War  
Survey of U.S. history from the pre-Columbian period to the end of Civil War. Major themes include the colonial origins of the United States, the development of American slavery and the role of race, gender, and class in shaping U.S. understandings of freedom, equality and democracy. Emphasizes critical reading, document analysis and in-class discussion.  
Note: Credit will be granted for only one of HSTR 210A, HIST 110. |
| HSTR 210B  | 1.5   | 3-0-0 | Formerly: part of HIST 110  
The United States from Post-War Reconstruction - present  
Survey of U.S. history from the post-Civil War Reconstruction to the present. Major themes include the impact of industrialization, the shifting role of the federal government and role of protest, in particular the Civil Rights Movement, in redefining freedom and democracy in the United States. Emphasizes critical reading, document analysis, and in-class discussion.  
Note: Credit will be granted for only one of HSTR 210B, HIST 110.  
Recommendation(s): HSTR 210A recommended prior to HSTR 210B. |
| HSTR 220A  | 1.5   | 3-0-0 | Formerly: HIST 120A, part of HIST 120  
History of England to the Glorious Revolution  
Survey of the political, social and cultural history of England from earliest times to the Glorious Revolution of 1688/9, with emphasis on the middle ages, the Tudor and Stuart periods and the Civil War, Interregnum and Restoration. Themes include gender, religion, monarchy, war, the development of Parliament, the relationship of England with the “Celtic fringe” and the beginnings of English maritime and imperial power.  
Note: Credit will be granted for only one of HSTR 220A, HIST 120, HIST 120A. |
| HSTR 220B  | 1.5   | 3-0-0 | Formerly: HIST 120B, part of HIST 120  
History of England from the Glorious Revolution - present  
Survey of the political, social and cultural history of England from the Glorious Revolution of 1688/9 to modern times, with emphasis on the Hanoverian and Victorian periods, the world wars and the rise and fall of the welfare state. Themes include gender, religion, monarchy, the formation of the United Kingdom and devolution, the emergence of Parliamentary government, the rise of Britain to world power and the subsequent retreat from Empire.  
Note: Credit will be granted for only one of HSTR 220B, HIST 120, HIST 120B. |
| HSTR 230A  | 1.5   | 3-0-0 | Formerly: HIST 131  
Canada to Confederation  
Introduces the history of Canada’s peoples from the Ice Age to the era of Queen Victoria. Themes include early human adaptations to the environment, cultural diversity of Indigenous peoples, colonial encounters and impacts of European colonization, formation of colonial states and factors leading to Confederation.  
Note: Credit will be granted for only one of HSTR 230A, HIST 130, HIST 131, HIST 230, HIST 231. |
| HSTR 230B  | 1.5   | 3-0-0 | Formerly: HIST 132  
Canada from Confederation - present  
Introduces Canada from 1867 to the present. Emphasizes major social, cultural and political changes, as the small Dominion of Canada evolved into the nation-state of the 20th century. Themes include Aboriginal peoples, Canada and war, the emergence of the modern state, industrialization, and relationships among peoples, groups and regions.  
Note: Credit will be granted for only one of HSTR 230B, HIST 130, HIST 132, HIST 232. |
HSTR 236 Units: 3.0 Hours: 3-0-0
Formerly: HIST 236
**Medieval Beginnings**
One thousand two hundred years of European history from the late Romans through the end of this Middle Age, including barbarian migrations, the development of a feudal society, the emergence of a vibrant new culture and the effects of famine and plague. Romans, Christians, Germans, emperors, lords, vassals, peasants, popes, monks, nuns, knights, scholars, merchants and all the components that makes this deep history the basis of the modern world.

**Note:** Credit will be granted for only one of HSTR 236, HSTR 236A, HSTR 236B, HIST 236.

**Recommendation(s):** Recommended for students wishing to take advanced courses in Medieval history.

HSTR 236A Units: 1.5 Hours: 3-0-0
Formerly: part of HSTR 236, part of HIST 236
**The Creation of the Medieval World**
The development of Europe from Late Antiquity through the achievements of the Carolingian world. The first seven centuries.

**Note:** Credit will be granted for only one of HSTR 236A, HSTR 236, HIST 236.

**Recommendation(s):** Recommended for students wishing to take advanced courses in Medieval history.

HSTR 236B Units: 1.5 Hours: 3-0-0
**The European Middle Age**
The development of Europe from feudal society through the breakdown of the medieval world view. The last five centuries.

**Note:** Credit will be granted for only one of HSTR 236B, HSTR 236, HIST 236.

**Recommendation(s):** Recommended for students wishing to take advanced courses in Medieval history.

HSTR 240A Units: 1.5 Hours: 3-0-0
Formerly: HIST 140A, part of HIST 140
**Europe, Renaissance to the French Revolution**
Explores the major social, political, cultural and economic developments from 1450 to 1800 which together created the basic shape of modern Europe. Key themes include: artistic, literary and scientific challenges to the status quo; religious conflict and warfare; contact with the "New World"; politics and the emergence of the nation-state; and the lives of everyday people, both commoner and elite.

**Note:** Credit will be granted for only one of HSTR 240A, HIST 140, HIST 140A, HIST 240.

**Recommendation(s):** HSTR 240, or HSTR 240A and HSTR 240B recommended for students wishing to take advanced courses in European History.

HSTR 240B Units: 1.5 Hours: 3-0-0
Formerly: HIST 140B, part of HIST 140
**Europe, Napoleon to the European Union**
Links developments in international relations to political, social, cultural and economic change in the leading states of continental Europe from 1800 to the present. Attention to imperialism causes of war and peace, new ideologies, mass politics and society, industrialization and growth in state power.

**Note:** Credit will be granted for only one of HSTR 240B, HIST 140, HIST 140B, HIST 240.

**Recommendation(s):** HSTR 240, or HSTR 240A and HSTR 240B recommended for students wishing to take advanced courses in European History.

HSTR 265A Units: 1.5 Hours: 3-0-0
Formerly: HIST 253
**China and the Premodern World**
Introduction to the political, intellectual and socioeconomic history of China and its relations with other premodern civilizations to 1840. Topics include Chinese philosophies and religions, imperial institutions and traditions, elite and popular classes, science and technology, the contacts of China with other premodern nations and comparison of these countries in a global context.

**Note:** Credit will be granted for only one of HSTR 265A, HIST 252, HIST 253, PACI 253.

HSTR 265B Units: 1.5 Hours: 3-0-0
Formerly: HIST 254
**China and the Modern West**
Survey of modern Chinese history with an emphasis on China’s relations to the West from 1840 to 2010. Topics include China’s responses to Western challenges and early modernization, its Republican, Nationalist and Communist revolutions and its recent reforms and rise as a global power.

**Note:** Credit will be granted for only one of HSTR 265B, HIST 254, PACI 254.

HSTR 267A Units: 1.5 Hours: 3-0-0
Formerly: HIST 255
**The Origins of Modern Japan**
Examines Japan’s transition from bureaucratic feudalism to capitalism in the 19th century. Includes a survey of ancient and medieval society as background then the transition to capitalism, the civil wars of the 1850s, the arrival of colonial powers, the popular rights movement, and the development of the modern state.

**Note:** Credit will be granted for only one of HSTR 267A, HIST 252, HIST 253, PACI 255.

HSTR 267B Units: 1.5 Hours: 3-0-0
Formerly: HIST 256
**Japan in the 20th Century**
Examines Japan’s political evolution in the 20th century including the emergence of liberal democratic trends, the triumph of militarism and corporatism in the 1930s, the 15 years war, the Occupation of Japan, and Japan’s postwar development including aspects of both social and economic history.

**Note:** Credit will be granted for only one of HSTR 267B, HIST 256, PACI 256.

HSTR 275 Units: 1.5 Hours: 3-0-0
**Modern South Asia from Early Empires to Gandhi**
Examines the political and cultural history of South Asia. Focus on ancient and early modern India, the emergence of religious diversity, the rise of Buddhism, Islam, Sikhism and trans-regional connections with the outside world. Explores modern institutions from the early 18th century through 1947, featuring the rise of the East India Companies, the 1857-58 rebellions, the British Empire in India, the rise of nationalism and the partition of colonial India.

HSTR 276 Units: 1.5 Hours: 3-0-0
Formerly: HIST 271
**Modern Latin America**
Considers how Latin Americans have struggled to create stable polities since the Wars of Independence of the early 19th century. Explores anticlericalism, banditry, antislavery, racism and the assault on communal institutions, as well as the influence of key Latin American artists such as Frida Kahlo, revolutionaries such as Emiliano Zapata and "Pancho" Villa, guerrillas such as Fidel Castro and "Che" Guevara and populists such as Getulio Vargas and Eva Peron.

**Note:** Credit will be granted for only one of HSTR 276, HIST 265 (if taken in the same topic), HIST 371.

HSTR 277A Units: 1.5 Hours: 3-0-0
Formerly: part of HSTR 277
**History of the Middle East, 1789-World War II**
Surveys the patterns of Middle Eastern history from the Ottoman and Iranian reforms undertaken in the 19th century to the establishment of the mandate system following the First World War. Emphasizes both continuities and disruptions that marked the shift from Ottoman rule to European imperialism. Themes include: the region’s incorporation into the world economy; the transformation of legal and educational practices; the structures of colonial rule; and, the impact of the Second World War.

**Note:** Credit will be granted for only one of HSTR 277A, HSTR 277, HIST 265 (if taken in the same topic).

HSTR 277B Units: 1.5 Hours: 3-0-0
Formerly: part of HSTR 277
**History of the Middle East since World War II**
Studies the major political processes that have shaped the modern Middle East (the Arab East, plus Iran, Israel, Turkey) since 1945. Themes include: the struggles for independence and the processes of nation-building, the Cold War interventions of foreign powers; the ideologies of pan-Arabism and Islamism; the regional ramifications of the Palestinian-Israeli conflict and the Iranian revolution; America’s troubled moment in the Middle East; and, the tumultuous events of the 2011 Arab Spring.

**Note:** Credit will be granted for only one of HSTR 277B, HSTR 277, HIST 265 (if taken in the same topic).

HSTR 300 Units: 1.5 Hours: 3-0-0
Formerly: HIST 300A
**Exploring the Past**
General-interest subjects from a range of thematic and geographical areas and presented for a broad audience.

**Notes:**
- Credit will be granted for only one of HSTR 300, HIST 300A (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.
- May not be counted towards upper-level requirements in Honours, Major, or General and Minor programs in History.
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<tr>
<th>Course Code</th>
<th>Units</th>
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<tr>
<td><strong>HSTR 300A</strong></td>
<td>1.5</td>
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<tr>
<td>The Backpacker’s Guide to European History</td>
<td>Explores European history from the perspective of student travel. Lectures examine the historical context of popular destinations and sights, approaching history in a deliberately practical way. Topics may include: the visible remains of prehistoric, Roman and medieval Europe; cemeteries, catacombs and sites of historical memory; evidence of statebuilding in palaces and monuments; understanding structures from the Roman Colosseum to the Eiffel Tower; art, architecture, and urban spaces; food, drink and other aspects of daily life.</td>
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<tr>
<td>Notes:</td>
<td>- Credit will be granted for only one of HSTR 300A, HIST 300A (if taken as section A01 in Sep-Dec 2013).</td>
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<td>- May not be counted toward upper-level requirements in Honours, Major, or General and Minor Programs in History.</td>
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| **HSTR 300B** | 1.5 | 3-0-0 |
| Formerly: HIST 348A | Hockey Nation: Sports History and Canadian Identity | Examines the history of Canada through the history of sport from pre-industrial times to the late 20th century. Includes attention to Aboriginal games, lacrosse, ice hockey, baseball, basketball, football and track and field. |
| Notes: | - Credit will be granted for only one of HSTR 300B, HIST 348A, HIST 338 (if taken as section A04 in Sep-Dec 2012). |
| | - May not be counted toward upper-level requirements in Honours, Major, or General and Minor Programs in History. |

| **HSTR 300C** | 1.5 | 3-0-0 |
| Gaming and the Historical Imagination | Games can be informative and fun in helping us to understand historical events and processes, however, they can also be deceiving, impairing our understanding of the past through misleading information. Many games have a narrow cultural framework that may subtly or overtly project certain biases and values. Video and board games will be played and then critically analyzed, and the pros and cons of using games to represent historical situations will be discussed. |
| Notes: | - Credit will be granted for only one of HSTR 300C, HSTR 300 (if taken within the same topic). |
| | - May not be counted toward upper-level requirements in Honours, Major, or General and Minor Programs in History. |

| **HSTR 301** | 1.5 | 3-0-0 |
| Formerly: HIST 201 | The Historian’s Craft | Introduction to how and why historians study the past, intended for all students and particularly relevant for those intending to pursue a Major or Honours Program in History. Familiarizes students with a variety of historical approaches and topics, introduces them to members of the department and their research and develops analytic and writing skills. |
| Note: | Credit will be granted for only one of HSTR 301, HIST 201. |
| Recommendation(s): | Recommended for History Majors. |

| **HSTR 302A** | 1.5 | 3-0-0 |
| Formerly: HIST 301A, part of HIST 301 | Revolutionary America and the Early Republic, 1763-1815 | Examines these years from the multiple perspectives of political elites, slaves, ordinary farmers, women and indigenous people in order to assess the aspirations and limitations of American democracy. |
| Note: | Credit will be granted for only one of HSTR 302A, HIST 301, HIST 301A. |

| **HSTR 302B** | 1.5 | 3-0-0 |
| Formerly: HIST 301B, part of HIST 301 | Antebellum America and the Civil War, 1815-1865 | Study of the period regarded both as the “age of democracy” and the height of American slavery. Examines the relationship between the expansion of slavery and democracy during the antebellum era and how the congruencies and tensions between slavery and democracy led to the American Civil War. |
| Note: | Credit will be granted for only one of HSTR 302B, HIST 301, HIST 301B. |

| **HSTR 303A** | 1.5 | 3-0-0 |
| Formerly: HIST 304A | The Emergence of Modern America, 1890-1945 | Explores the transformation of domestic U.S. society. Topics include the rise of corporate capitalism, the Progressive Movement, immigration, race and gender relations, the development of mass consumerism and the impact of the Great Depression and two world wars on state power and labour relations. |
| Note: | Credit will be granted for only one of HSTR 303A, HIST 304, HIST 304A. |

| **HSTR 303B** | 1.5 | 3-0-0 |
| Formerly: HIST 304B | United States since 1945 | Examines domestic U.S. history. Topics include Cold War culture, race and the Civil Rights Movement, the impact of the Vietnam War and the counterculture, movements for gender and sexual equality, the rise of the New Right and the decline of labour and the liberal state. |
| Note: | Credit will be granted for only one of HSTR 303B, HIST 304, HIST 304B. |

| **HSTR 304** | 1.5 | 3-0-0 |
| Formerly: HIST 317 | Social History of the Automobile | Explores how the invention of the automobile has changed the way North Americans live and die, vacation and work. Examines the effect of the automobile on status, gender roles, environment, politics, war and foreign policy. |
| Note: | Credit will be granted for only one of HSTR 304, HIST 317, HIST 318 (if taken in the same topic). |

| **HSTR 306** | 1.5 | 3-0-0 |
| Sex and Power in American History | Surveys the use of sex as symbol and means of constructing power in American history from the 1500s to the present day. Topics include conquest, slavery and race, religion, commercial sex, gay rights and transgender. |
| Note: | Credit will be granted for only one of HSTR 306, HIST 318 (if taken as section A03 in Sep-Dec 2012). |

| **HSTR 307A** | 1.5 | 3-0-0 |
| Formerly: HIST 315A | The United States in the World, 1750-1914 | Examines U.S. foreign relations from the late colonial era to the eve of World War I. Themes include the origins and influence of American exceptionalism, the drive for commercial expansion, the relationship between continental and overseas empire and the influence of domestic racial and gender hierarchy. |
| Note: | Credit will be granted for only one of HSTR 307A, HIST 315, HIST 315A. |
| Recommendation(s): | Minimum second-year standing recommended. |

| **HSTR 307B** | 1.5 | 3-0-0 |
| Formerly: HIST 315B | The United States in the World, 1914-present | Explores U.S. foreign relations from World War I to the present. Themes include the role of the world wars in the U.S. rise to global power, the formulation of American Cold War strategy, the U.S. response to Third World nationalism and the origins and consequences of the “War on Terror”. |
| Note: | Credit will be granted for only one of HSTR 307B, HIST 315, HIST 315B. |
| Recommendation(s): | Minimum second-year standing recommended. |

| **HSTR 308** | 1.5 | 3-0-0 |
| Note: | Credit will be granted for only one of HSTR 308, HIST 316, HIST 318 (if taken in the same topic). |

| **HSTR 309** | 1.5 | 3-0-0 |
| Race Riots in American Cities | Examines the origins, unfolding and legacy of riots in the urban United States in the 1960s. Focuses on social and political history, linking federal policy with case studies of individual cities. Topics include 20th century race relations, inequality in labour and housing markets, American social science and the welfare state, collective violence and state strategies for the management of marginalized populations. |
| Note: | Credit will be granted for only one of HSTR 309, HIST 318 (if taken in the same topic). |

<p>| <strong>HSTR 310</strong> | 1.5 | 3-0-0 |
| Formerly: HIST 318 | Topics in American History | Notes: |
| | - Credit will be granted for only one of HSTR 310, HIST 318 (if taken in the same topic). |
| | - May be taken more than once for credit in different topics with permission of the department. |</p>
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<tr>
<th>HSTR 310A</th>
<th>Units: 1.5</th>
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<tbody>
<tr>
<td>African-American History</td>
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<tr>
<td>African American history as a lens through which to explore American national mythology and the notions of freedom, equality and democracy, as well as the paradoxes at the heart of American society. Topics include: the Atlantic Slave trade; the development of 'race'; slavery; abolitionism; the Civil War and reconstruction; urbanization; Jim Crow segregation; racial purity legislation and lynching; civil rights; Black Power; the debate over reparations.</td>
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<th>HSTR 310B</th>
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<tr>
<td>US-Soviet Relations in the Cold War Era</td>
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<tr>
<td>Examines the origins and motivations of the US-Soviet conflict, the major events and crises of the Cold War and the social, political and cultural impacts of the struggle on both the superpowers and the broader world in the latter half of the 20th century.</td>
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<th>HSTR 310C</th>
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<tr>
<td>American History in Film</td>
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<tr>
<td>Examines critical points in U.S. history through major Hollywood films that document the American story, asking whether this film works as history. Covers material from the colonial era (Last of the Mohicans) to the Civil War (Gangs of New York) to the Cold War (Thirteen Days).</td>
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<th>HSTR 310D</th>
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<tr>
<td>The American West</td>
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<tr>
<td>Covers both the historical reality and the myth of the American west. Looks at the history of the west in the European imagination, the Spanish, French and English claims, the shifting frontier from the colonial era onward, expansionism, race and native displacement and war. Topics include the frontiersmen, the gunfighter, violence, environmental struggles, resources, politics and economic paradoxes of this region.</td>
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<th>HSTR 312</th>
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<tr>
<td>Tudor-Stuart England</td>
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<tr>
<td>Study of some of the major themes of historical research into the social, cultural, religious and political experiences of English men and women from the Tudor period to the Glorious Revolution of 1688, including the Tudor and Stuart monarchy, the English Civil War, religious beliefs and persecution, gender and popular culture.</td>
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<th>HSTR 313A</th>
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<tbody>
<tr>
<td>Formerly: HIST 324A, part of HIST 324</td>
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<tr>
<td>Britain's Rise to World Power, 1689-1837</td>
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<tr>
<td>Political culture in Britain during the era in which it rose to global ascendency. Topics include the Glorious Revolution (1688-1689), the origins of British military and financial power, the rise of overseas empire, the emergence of cabinet and parliamentary government, the impact of the American and French Revolutions, the &quot;Great War&quot; with France (1793-1815), and the &quot;age of reform&quot; that preceded the accession of Queen Victoria.</td>
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<tbody>
<tr>
<td>Formerly: HIST 324B, part of HIST 324</td>
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<tr>
<td>English Society, 1689-1837</td>
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<tr>
<td>Society and culture in England during the era in which it achieved political domination of the British Isles and became a global superpower. Topics include: aristocratic society, the growing influence of the mercantile and middle classes; the development of urban, commercial and industrial society, changing role of women and children; the impact of the French and Industrial Revolutions amongst working people; the emergence of the &quot;Victorian&quot; world.</td>
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<th>HSTR 314A</th>
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<tr>
<td>Formerly: part of HIST 325</td>
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<tr>
<td>Becoming the Victorians, Britain 1789-1851</td>
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<tr>
<td>Explores the opportunities and challenges presented to Britain by the French and Industrial Revolutions of the late 18th century, and considers how and why they generated new attitudes towards society, politics, religion and culture. Traces Britain's rise as the world's greatest economic power from the beginnings of industrialism to the triumphant hosting of the first ever world's fair in 1851.</td>
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<tr>
<td>Formerly: part of HIST 325</td>
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<tr>
<td>The Victorians to the Great War, Britain 1851-1914</td>
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<tr>
<td>British history from the mid-Victorian through the Edwardian era. Explores the rise of middle class power; changes in attitudes towards marriage, sexuality, and gender roles; as well as the consequences of the 'New Imperialism', the 'New Liberalism', and crises in and over Ireland. Concludes by considering the myth of the long Edwardian summer afternoon which supposedly preceded the outbreak of the Great War.</td>
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<tr>
<td>Formerly: HIST 327A, part of HIST 327</td>
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<tr>
<td>Britain's Short Twentieth Century 1901-1951</td>
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<tr>
<td>Major themes in British history focusing on the social, cultural, political and economic consequences of Britain's involvement in two world wars.</td>
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<tr>
<td>Formerly: HIST 327B, part of HIST 327</td>
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<tr>
<td>Modern Britain 1951-the present</td>
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<tr>
<td>Major developments in British history focusing on the debate over the &quot;decline&quot; of Britain, the rise and fall of the welfare state, the devolution of Empire and the emergence of a culturally and ethnically diverse society.</td>
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<th>HSTR 316A</th>
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<tbody>
<tr>
<td>Formerly: HIST 328A</td>
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<tr>
<td>Death and the Afterlife in England, 1200-1750</td>
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<tr>
<td>Examines death and attitudes toward the afterlife and the supernatural from the late Middle Ages to the beginning of the modern era. Themes include the late-medieval ars moriendi and ghost stories; martyrdom of Protestants and Catholics under &quot;Bloody Mary&quot; and Elizabeth I; murder; attitudes toward providence and the supernatural; crime and public execution in 17th- and 18th-century London; the rise of &quot;rational religion&quot; and the &quot;secularization of suicide&quot;.</td>
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<tr>
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<tr>
<td>Death and the Afterlife in England, 1750 to the Present</td>
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<td>Examines death and attitudes toward the afterlife and the supernatural. Themes include: popular and elite attitudes toward death and dissection; grief and mourning in Victorian England; the emergence of the modern cemetery and the rise of cremation; spiritualism, the First World War and the role of modern media in shaping responses to the death of celebrities.</td>
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</tbody>
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<thead>
<tr>
<th>HSTR 318</th>
<th>Units: 1.5</th>
<th>Hours: 3-0-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formerly: HIST 330</td>
<td></td>
<td></td>
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<tr>
<td>The Bloody Code: Crime in England, 1660-1800</td>
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<tr>
<td>Crime, society and the administration of criminal justice in early modern England. Themes include the political and social backdrop to the &quot;Bloody Code&quot; and contemporary views of criminality, gender and class. Charts the emergence of modern criminal administration - policing, prosecution, trial and punishment - with particular attention to the interrelationship between the law and its social context.</td>
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</tr>
</tbody>
</table>

Note: Credit will be granted for only one of HSTR 315A, HSTR 318, HIST 337, HIST 339 (if taken in the same topic).
HSTR 320 - HSTR 328

HSTR 320 Units: 1.5 Hours: 3-0-0
Formerly: HIST 339
Topics in British History
Notes:
- Credit will be granted for only one of HSTR 320, HIST 339 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.
Recommendations: HSTR 220 recommended prior to HSTR 320.

HSTR 320A Units: 1.5 Hours: 3-0-0
The British Monarchy since 1689
Examines changing powers and significance of British monarchy since 1689, especially transition from monarch as central engine of government to symbolic figurehead of the nation, as driven by such historical forces as war and empire, religion and secularization, politics and democracy and the rise of modern media.
Note: Credit will be granted for only one of HSTR 320A, HIST 339 (if taken in the same topic).

HSTR 320B Units: 1.5 Hours: 3-0-0
Homicide in Modern Britain
Investigates changing character and extent of murder in England from 18th century to the present. Critically examines explanations of historians, sociologists and anthropologists for falling homicide rates over the long term. Specific subjects include: capital punishment for murder, rise of sensationalist fiction and journalism; growing role of police investigation; public responses to particular, infamous murders; emergence of serial killer as pop culture phenomenon.
Note: Credit will be granted for only one of HSTR 320B, HIST 339 (if taken in the same topic).

HSTR 320C Units: 1.5 Hours: 3-0-0
Bloodfeud, Politics and Culture in the Celtic World, 1485-1746
Analyses the expansion of the state in Ireland and Highland Scotland from the fifteenth to eighteenth centuries. Topics include clans, feuding and the politics of the Gaelic chiefs, the long history of attempts to extirpate the Gaelic cultures, the growing divide between Scottish Highlanders and Gaelic Irish and the changing nature of warfare in Ireland and Highland Scotland. Looks briefly at Wales, Brittany, Galicia, and North America.
Note: Credit will be granted for only one of HSTR 320C, HIST 339 (if taken in the same topic).

HSTR 320E Units: 1.5 Hours: 3-0-0
Ice and Exploration
This history of polar exploration focuses on British - as well as larger Western - attitudes towards new frontiers and the natural world. Emphasis on the themes of class, empire, ethnicity and cultural constructions of courage and masculinity. Topics include the Viking discovery of North America and the Norse settlement in Greenland, the search for the Northwest Passage, the race for the North and South Poles and the conquest of the third pole, Everest.
Note: Credit will be granted for only one of HSTR 320E, HIST 330 (if taken in Jan-Apr 2015), HIST 339 (if taken in Jan-Apr 2008).

HSTR 322A Units: 1.5 Hours: 3-0-0
Formerly: HIST 344A, part of HIST 344
Canadian Political History Since 1867
Examines the political history of Canada since Confederation with an emphasis on individuals and the role they have played in institutional development and policy outcomes.
Note: Credit will be granted for only one of HSTR 322A, HIST 344, HIST 344A.

HSTR 322B Units: 1.5 Hours: 3-0-0
Formerly: HIST 344B, part of HIST 344
Canadian Constitutional History
Examines the origins of the BNA Act 1867 and the subsequent interpretation and amendment of the Constitution through both the courts and the political process.
Note: Credit will be granted for only one of HSTR 322B, HIST 344, HIST 344B.

HSTR 323 Units: 1.5 Hours: 3-0-0
Formerly: HIST 345
Canadian-American Relations
Explores selected issues in the economic, cultural, political and diplomatic aspects of Canadian-American relations.
Note: Credit will be granted for only one of HSTR 323, HIST 345.

HSTR 324A Units: 1.5 Hours: 3-0-0
Formerly: HIST 345A
Northwest America to 1849
Studies the Indigenous world in the region west of the Rocky Mountains and north of California, first contact with Europeans, European exploration and rivalries, indigenous-settler relations, environment and economy up to the establishment of the colony of Vancouver Island in 1849.
Note: Credit will be granted for only one of HSTR 324A, HIST 345A.

HSTR 324B Units: 1.5 Hours: 3-0-0
Formerly: HIST 354B
British Columbia, 1849-1900
Examines the foundations of modern British Columbia from the founding of the colony of Vancouver Island including indigenous-settler relations, gold rushes, settlement patterns, Indian policy, treaties, residential schools, Asian immigration, race relations, environment, economy and the origins of BC's peculiar politics.
Note: Credit will be granted for only one of HSTR 324B, HIST 354B.
Recommendations: HSTR 230A and HSTR 230B, or HSTR 324A recommended prior to HSTR 324B.

HSTR 324C Units: 1.5 Hours: 3-0-0
Formerly: HIST 355
British Columbia in the 20th Century
Examines the history of British Columbia from the establishment of political parties and the rise of an industrial economy to the emergence of neoliberal politics and the new information-age economy of the twenty-first century. Emphasis on themes of labour, race, gender and environment.
Note: Credit will be granted for only one of HSTR 324C, HIST 355.

HSTR 325 Units: 1.5 Hours: 3-0-0
Formerly: HIST 354C
Environmental History of British Columbia
Examines the cultural, social and political interactions between humans and the environment in British Columbia from the pre-contact period to the present.
Note: Credit will be granted for only one of HSTR 325, HIST 354C, HIST 358 (if taken in the same topic).

HSTR 326 Units: 1.5 Hours: 3-0-0
Also: RS 326
Religion and Spirituality in Canada
Explores spirituality and organized religion in Canada from pre-contact Indigenous experiences to today. Focuses on social and cultural dimensions of religion and spirituality, and also explores relevant political issues. Examines the emergence of secular ideas and practices in Canada since the 19th century and ongoing tensions between religion and secularism. Interactions with gender, class, sexuality, ethnicity, race, indigeneity, regional differences and conflicts rooted in religion and spirituality will be central.
Note: Credit will be granted for only one of HSTR 326, RS 326.

HSTR 327A Units: 1.5 Hours: 3-0-0
Formerly: part of HIST 358A
Gender and Sexuality in Canada to 1920
Examines historical forms of masculinity and femininity in Canada, as well as the diverse experiences of men and women of different regions, races, classes, religions and sexualities. Focuses on issues of gender and sexuality in indigenous cultures both pre- and post-contact, and explores religious experiences, changing patterns of work and family, health, education, violence, politics, sport, social reform and the rise of feminism.
Note: Credit will be granted for only one of HSTR 327A, HIST 358A (if taken in the same topic), HIST 358B.

HSTR 327B Units: 1.5 Hours: 3-0-0
Formerly: part of HIST 358A
Gender and Sexuality in Canada from 1920 - present
Explores issues of gender and sexuality in a range of twentieth century contexts, including the role of science, changing definitions of motherhood and fatherhood, social control and eugenics, religion, immigration, gendered experiences of World War II and the postwar era, the emergence of visible lesbian, gay and transgender communities, changing patterns of work and family, the rise of second wave feminism and the sexual revolution.
Note: Credit will be granted for only one of HSTR 327B, HIST 358B (if taken in the same topic), HIST 358A.

HSTR 328 Units: 1.5 Hours: 3-0-0
Formerly: HIST 358C, HIST 358F
Indigenous-Settler Relations in Canada
Examines relations between Indigenous peoples, European colonial powers and settler societies from 1500 to the present day. Topics include first contact, the fur trade, missionization, warfare and diplomacy, Canadian “Indian” policy, resistance to colonialism, treaty making, Indigenous political activism, land claims and decolonization. Encourages reflection on methodologies and paradigms for research relating to Indigenous historical experiences.
Note: Credit will be granted for only one of HSTR 328, HIST 358B (if taken in the same topic), HIST 358C, HIST 358F, HIST 359 (if taken in the same topic).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
</table>
| HSTR 329A  | 1.5   | 3-0-0 | Race, Racism and Ethnicity in Canada to 1900
Introduces the history of drinking in Canadian life from 1828 to the present. Topics include the rise of the temperance movement, the struggle over legislation, prohibition’s victory during WWI and the shift to government regulation in most provinces by the end of the 1920s. Explores related issues including gender, race, class and age as well as the history of leisure and the habits of everyday life, recreational drug use and evolving state policy. |
| HSTR 329B  | 1.5   | 3-0-0 | Race, Racism and Ethnicity in Canada since 1900
Surveys the place and meanings of race and ethnicity in Canada since 1900. Explores state and dominant ideologies as well as the experiences of Indigenous Peoples, immigrants and of community development using film, fiction and popular, social and political histories. Topics may include histories of dispossession, exclusion, racism, and antisemitism as well as narratives of resistance, survival and resurgence. |
| HSTR 330   | 1.5   | 3-0-0 | Topics in Canadian History
Explores the development of racial discourses from the colonial settings of New France and the British Empire in Northern America to the end of the first period of mass-immigration at the turn of the twentieth century. Covers a wide range of topics from Native-newcomer relations, slavery, anti-Irish sentiment and the dispersal of the Métis, to the reception and treatment of non-British immigrants from Europe and Asia. |
| HSTR 330C  | 1.5   | 3-0-0 | Indigenous-Settler Treaties in Canada since 1600
Explores the history of treaties and treaty making between Indigenous peoples and colonial/national states in what is now Canada, from early pacts of peace and friendship to modern comprehensive agreements. Introduces treaty research methods, including analysis of documentary evidence and Indigenous oral tradition. |
| HSTR 330D  | 1.5   | 3-0-0 | Drink and Social Control in Canada
Introduces the history of drinking in Canadian life from 1828 to the present. Topics include the rise of the temperance movement, the struggle over legislation, prohibition’s victory during WWI and the shift to government regulation in most provinces by the end of the 1920s. Explores related issues including gender, race, class and age as well as the history of leisure and the habits of everyday life, recreational drug use and evolving state policy. |
| HSTR 330E  | 1.5   | 3-0-0 | Canada’s 1960s
The history of Canada in the era of sex, drugs and rock and roll focuses on key global themes and events and their manifestation in Canada. Topics include the Vietnam war, the civil rights movement, youth protest, decolonization, environmentalism, nationalism and separatism. |
| HSTR 331A  | 1.5 or 3.0 | 3-0-0 | Topics in Medieval Europe
Explores the history of drinking in Canadian life from 1828 to the present. Topics include the rise of the temperance movement, the struggle over legislation, prohibition’s victory during WWI and the shift to government regulation in most provinces by the end of the 1920s. Explores related issues including gender, race, class and age as well as the history of leisure and the habits of everyday life, recreational drug use and evolving state policy. |
| HSTR 331B  | 1.5   | 3-0-0 | Sex, Violence and Death in Modern Medievalism
Explores the history of drinking in Canadian life from 1828 to the present. Topics include the rise of the temperance movement, the struggle over legislation, prohibition’s victory during WWI and the shift to government regulation in most provinces by the end of the 1920s. Explores related issues including gender, race, class and age as well as the history of leisure and the habits of everyday life, recreational drug use and evolving state policy. |
| HSTR 331C  | 1.5   | 3-0-0 | The Creation of Medieval History of J.R.R. Tolkien’s Middle-Earth
From the creation of the universe in the Ainulindale to the War of the Ring, an exploration of the history of Tolkien’s world, providing a deep background and understanding both for those who know The Lord of the Rings and for those who are just recognizing the achievement that Tolkien’s created medieval history represents. |
| HSTR 331D  | 1.5   | 3-0-0 | The Birth of the Renaissance
Considers Italian history between 1300 and 1550, a period of intense economic, cultural and political vitality known as the Renaissance. Analysis focuses on the major city states, including Venice, Florence and Milan, where these innovations took place. Topics include republican politics, humanism and the flowering of the arts. |
| HSTR 331E  | 1.5   | 3-0-0 | Europe from Louis XIV to the French Revolution
The Europe of the Ancien Régime of kings and peasants, of dynastic wars and peasant rebellions, and of new thinking in science, society and politics. Topics include: the idea of "absolutism"; social, political and military structures; poverty, living conditions and crime; technology and science; economic changes; the Enlightenment. |
| HSTR 332A  | 1.5   | 3-0-0 | The Birth of the Renaissance
Considers Italian history between 1300 and 1550, a period of intense economic, cultural and political vitality known as the Renaissance. Analysis focuses on the major city states, including Venice, Florence and Milan, where these innovations took place. Topics include republican politics, humanism and the flowering of the arts. |
| HSTR 332B  | 1.5   | 3-0-0 | Europe from Louis XIV to the French Revolution
The Europe of the Ancien Régime of kings and peasants, of dynastic wars and peasant rebellions, and of new thinking in science, society and politics. Topics include: the idea of "absolutism"; social, political and military structures; poverty, living conditions and crime; technology and science; economic changes; the Enlightenment. |
| HSTR 332C  | 1.5   | 3-0-0 | The Birth of the Renaissance
Considers Italian history between 1300 and 1550, a period of intense economic, cultural and political vitality known as the Renaissance. Analysis focuses on the major city states, including Venice, Florence and Milan, where these innovations took place. Topics include republican politics, humanism and the flowering of the arts. |
| HSTR 332D  | 1.5   | 3-0-0 | Europe from Louis XIV to the French Revolution
The Europe of the Ancien Régime of kings and peasants, of dynastic wars and peasant rebellions, and of new thinking in science, society and politics. Topics include: the idea of "absolutism"; social, political and military structures; poverty, living conditions and crime; technology and science; economic changes; the Enlightenment. |
| HSTR 332E  | 1.5   | 3-0-0 | The Birth of the Renaissance
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<tr>
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<th>Description</th>
</tr>
</thead>
</table>
| HSTR 342B  | 1.5   | 3-0-0 | Formerly: HIST 363  
Revolutionary and Napoleonic Europe, 1789-1815  
Examination of French implementation of the ideas and values of the Enlightenment and a study of European reaction to revolutionary change in political and social structures.  
Note: Credit will be granted for only one of HSTR 342B, HIST 363.  
Recommendation(s): HSTR 240, or HSTR 240A and HSTR 240B recommended prior to HSTR 342B. |
| HSTR 342C  | 1.5   | 3-0-0 | Formerly: HIST 365, part of HIST 365A and HIST 365B  
Democracy, War and Nation Building in Europe, 1814-1914  
Examines major developments in domestic politics and foreign relations among the leading European states. Focuses on the close ties between political change (through revolution or reform) and international conflict as European elites tried to rally mass support for their regimes.  
Note: Credit will be granted for only one of HSTR 342C, HIST 365, HIST 365A, HIST 365B. |
| HSTR 343A  | 1.5   | 3-0-0 | Cinema and European Society, 1900-1945  
Explores questions of national identity, political change, class and social mobility in European feature and documentary film in the first half of the 20th century. Includes attention to the role of cinema as mass entertainment and the exploitation of the new medium in the propaganda of both world wars. |
| HSTR 344A  | 1.5   | 3-0-0 | The First World War  
Examines the origins, events and consequences of the war that contemporaries dubbed the Great War. Focuses on the military events of the conflict, but also considers the social, cultural and political dimensions. Emphasis on the latest historical debates on the war and how this conflict marks the transition from the wars of gentlemen to the conflict of machines and science.  
Note: Credit will be granted for only one of HSTR 344A, HIST 265 (if taken in the same topic). |
| HSTR 344B  | 1.5   | 3-0-0 | Formerly: HIST 366  
Europe Between Two World Wars  
Examines the impact of the First World War on European society through its effect on the international order and the rise of totalitarian ideologies such as communism and fascism.  
Note: Credit will be granted for only one of HSTR 344B, HIST 366.  
Recommendation(s): HIST 112A and HIST 112B, or HIST 240A and HIST 240B recommended prior to HSTR 344B. |
| HSTR 344C  | 1.5   | 3-0-0 | Formerly: HIST 367  
The Second World War and the Recovery of Western Europe  
Examination of the effects of the Second World War on Europe, and the recovery of the Western European states in the postwar period.  
Note: Credit will be granted for only one of HSTR 344C, HIST 367.  
Recommendation(s): HIST 112A and HIST 112B, or HIST 240A and HIST 240B recommended prior to HSTR 344C. |
| HSTR 345   | 1.5   | 3-0-0 | Also: SLST 345  
The Eastern Front in the First and Second World Wars  
Examines the military, political, and social aspects of the Eastern Front in Europe during both World Wars. Aims to analyze the Eastern Front's difference from the warfare in the West, and how this specificity explains the origins of revolutionary violence and genocide.  
Note: Credit will be granted for only one of HSTR 345, HIST 340 (if taken as section A01 in Sep-Dec 2014), SLST 345. |
| HSTR 346   | 1.5   | 3-0-0 | Formerly: HIST 369  
France from the Renaissance to Louis XIV  
Examines the origins, events and consequences of the war that contemporaries dubbed the Great War. Focuses on the military events of the conflict, but also considers the social, cultural and political dimensions. Emphasis on the latest historical debates on the war and how this conflict marks the transition from the wars of gentlemen to the conflict of machines and science.  
Note: Credit will be granted for only one of HSTR 346, HIST 369.  
Recommendation(s): HSTR 240, or HSTR 240A and HSTR 240B recommended prior to HSTR 346. |
| HSTR 347A  | 1.5   | 3-0-0 | Formerly: HIST 370A  
Reaction, Reform and Revolution in France, 1814-1914  
A study of the dynamic between revolution and reform as France struggled to implement democracy. Political culture, gender relations and responses to the Industrial Revolution are major themes.  
Note: Credit will be granted for only one of HSTR 347A, HIST 370, HIST 370A.  
Recommendation(s): HSTR 240, or HSTR 240A and HSTR 240B recommended prior to HSTR 347A. |
| HSTR 347B  | 1.5   | 3-0-0 | Formerly: HIST 370B  
Decline and Renewal of France, 1914-2014  
Examines what happens when a former great power enters decline. Losses sustained during the Great War, defeat by Nazi Germany in 1940, and the wars of decolonization forced the French to undertake dramatic change in their state, society, and international relations. But as recent battles over immigration, religion, the ‘war on terror’, and European integration reveal, recovery has come at the cost of deep divisions over national identity and France’s place in the world.  
Note: Credit will be granted for only one of HSTR 347B, HIST 370B, HIST 371.  
Recommendation(s): HSTR 240, or HSTR 240A and HSTR 240B recommended prior to taking this course. |
| HSTR 349   | 1.5   | 3-0-0 | Hitler in History  
Key themes to be explored through printed documents, films and photographs include: the misfit, artist, soldier, antisemitic, political ideologue, party leader, national faith-healer, propagandist, media-star, mass-murderer, military commander/megalomaniac. Focus on the central role of Hitler in the ideology and political style of National Socialism, on his commitment to life as struggle, national rebirth, racial hatred, war and genocide.  
Note: Credit will be granted for only one of HSTR 349, HIST 300 (if taken in the same topic). |
| HSTR 350A  | 1.5   | 3-0-0 | Formerly: HIST 372  
Imperial Germany  
Examines the principal themes in German history between the formation of the united state in 1871 and the German revolution of 1918-1919.  
Note: Credit will be granted for only one of HSTR 350A, HIST 372.  
Recommendation(s): HSTR 240, or HSTR 240A and HSTR 240B recommended prior to HSTR 350A. |
| HSTR 350B  | 1.5   | 3-0-0 | Formerly: HIST 373  
Weimar and Nazi Germany  
Examines the principal themes and developments in German history between the end of World War I and the collapse of the Third Reich in 1945.  
Note: Credit will be granted for only one of HSTR 350B, HIST 373.  
Recommendation(s): HSTR 112A and HSTR 112B, or HSTR 240A and HSTR 240B recommended prior to HSTR 350B. |
| HSTR 350C  | 1.5   | 3-0-0 | Formerly: HIST 378  
Germany After 1945  
Focuses on political, social and cultural developments in both German states from 1945 to the present. Particular attention is given to the country’s post-war occupation, the division and unification in 1990, the turbulent 1960s, as well as Germany’s position in an integrating Europe and its response to the ‘refugee crisis’.  
Note: Credit will be granted for only one of HSTR 350C, HIST 378, HIST 388 (if taken in the same topic). |
| HSTR 351   | 1.5   | 3-0-0 | Also: SLST 361  
Formerly: HIST 374, SLAV 374  
Imperial Russia, 1689-1917  
History of Russian Empire from Peter the Great to the fall of the monarchy. Traces Russia’s response to the challenge of the West, with special attention to political reforms, social transformation and cultural change. Discussion of whether Late Imperial Russia was history’s dead end or a promise cut short by revolutionary violence.  
Notes:  
• Credit will be granted for only one of HSTR 351, HIST 374, SLAV 374, SLST 361.  
• No knowledge of Russian is required prior to taking this course.  
Recommendation(s): 1.5 units of 100-level HSTR course strongly recommended prior to HSTR 351. |
| HSTR 352   | 1.5   | 3-0-0 | Also: SLST 362  
Formerly: HIST 376, SLAV 376  
The Soviet Union and its Successor States, 1917-2000  
History of the Soviet Union and its aftermath. Examines political, economic, social and cultural transformations that shaped the Soviet socialist experiment, as well as the causes of its collapse and the difficulties of post-communist transition in Russia and non-Russian republics. Emphasis on social history, gender and everyday life.  
Notes:  
• Credit will be granted for only one of HSTR 352, HIST 372, SLAV 376, SLST 362.  
• No knowledge of Russian is required prior to taking this course. |
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<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
<th>Notes</th>
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<tbody>
<tr>
<td>HSTR 353</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Modern Ukraine and Russian-Ukrainian Conflict</td>
<td>Includes special emphasis on its historical relations with Russia. Discusses popular revolutions in Ukraine and the ensuing Russian-Ukrainian conflict in the wider historical context of imperial disintegration. Notes: Credit will be granted for only one of HSTR 353, HIST 377, SLAV 377, SLST 363. No knowledge of Ukrainian is required prior to taking this course.</td>
</tr>
<tr>
<td>HSTR 355</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Epidemics and Public Health in Modern History</td>
<td>Examines epidemics (plague, smallpox, influenza, polio, AIDS) and their impact on medicine, society, and culture over the past 500 years. Notes: Credit will be granted for only one of HSTR 355, HIST 360C, HSTR 362, HIST 264 (if taken in the same topic). No background in science is required.</td>
</tr>
<tr>
<td>HSTR 360</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Topics in World History</td>
<td>Credit will be granted for only one of HSTR 360, HIST 362 (if taken in the same topic), HIST 468 (if taken in the same topic). May be taken more than once for credit in different topics with permission of the department.</td>
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<tr>
<td>HSTR 364</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Government and Politics in East Asia</td>
<td>Government and politics in China, Japan, North and South Korea, and Taiwan, with special attention to state formation, political reform, institutions and ideology. Note: Credit will be granted for only one of HSTR 364, HIST 438 (if taken in the same topic), POLI 318.</td>
</tr>
<tr>
<td>HSTR 365</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Formerly: HIST 438</td>
<td>Topics in East Asian History</td>
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<tr>
<td>HSTR 365A</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Formerly: HIST 434A</td>
<td>Late Imperial China</td>
</tr>
<tr>
<td>HSTR 365B</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Formerly: HIST 434B</td>
<td>20th Century China</td>
</tr>
<tr>
<td>HSTR 365C</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Formerly: HIST 434C</td>
<td>China and the World</td>
</tr>
<tr>
<td>HSTR 366</td>
<td>1.5</td>
<td>3-0-0</td>
<td>War and Revolution in China</td>
<td>Studies the dynamic interactions between wars and revolutions as well as military and political changes in modern China up to the mid-20th century. Focuses on the escalation of China's civil wars and its military engagements with foreign powers during its successive Republican, Nationalist and Communist revolutions. Special attention given to the violent radicalization of revolutionary politics and the simultaneous politicization of military forces and strategies, such as the militia/guerrilla-style &quot;people's wars&quot;. Note: Credit will be granted for only one of HSTR 366, HIST 438 (if taken as section A01 in Sep-Dec 2013).</td>
</tr>
<tr>
<td>HSTR 370A</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Intersections of Law and Religion from Ancient to Current Worlds</td>
<td>Comparative global exploration of relationships among law and religion, across multiple historical contexts and traditions. Includes theistic worldview, Hinduism, Buddhism, and their manifestations of law unfolding from the biblical to contemporary worlds. Diverse understandings of law in non-theistic traditions like Hinduism and Buddhism. Within modern settings, emphasis on secularist outlooks that re-embodies, rather than eliminate, overlaps between law and religion, and on debates involving states' attempts to monopolize control over religion. Note: Credit will be granted for only one of HSTR 370A, HIST 468 (if taken in the same topic), RS 370.</td>
</tr>
<tr>
<td>HSTR 371</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Formerly: HIST 370</td>
<td>Topics in Thematic and Comparative History</td>
</tr>
<tr>
<td>HSTR 372</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Formerly: HIST 457</td>
<td>The Atlantic Slave Trade</td>
</tr>
<tr>
<td>HSTR 374</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Formerly: HIST 459</td>
<td>History of South Africa</td>
</tr>
<tr>
<td>HSTR 375</td>
<td>1.5</td>
<td>3-0-0</td>
<td>History of Decolonization in Asia and Africa</td>
<td>Emphasis on South and Southeast Asian history, and African decolonization political networks of anti-colonialism and nationalism from the late 19th century to the late 20th century. Focus on global historical changes such as the rise of trans-Atlantic slavery, abolition, the world system, as well as nationalism in the Afro-Asian world, with an emphasis on Mohandas Gandhi, Subhas Chandra Bose, Frantz Fanon and Nelson Mandela.</td>
</tr>
<tr>
<td>HSTR 376A</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Also: SPAN 484C</td>
<td>Formerly: HIST 470</td>
</tr>
<tr>
<td>HSTR 376B</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Also: SPAN 484D</td>
<td>Formerly: HIST 471</td>
</tr>
<tr>
<td>Course Code</td>
<td>Units</td>
<td>Hours</td>
<td>Description</td>
<td>Notes</td>
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<tr>
<td>HSTR 376C</td>
<td>1.0</td>
<td>3-0-0</td>
<td>History of the Middle East and North Africa</td>
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<tr>
<td>HSTR 376D</td>
<td>1.0</td>
<td>3-0-0</td>
<td>The Modern History of Latin America</td>
<td></td>
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<tr>
<td>HSTR 377</td>
<td>1.0</td>
<td>3-0-0</td>
<td>History of the Israeli-Palestinian Conflict</td>
<td></td>
</tr>
<tr>
<td>HSTR 378</td>
<td>1.0</td>
<td>3-0-0</td>
<td>History of the Modern Middle East</td>
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<tr>
<td>HSTR 379</td>
<td>1.0</td>
<td>3-0-0</td>
<td>Western Imperialism in the Middle East and North Africa</td>
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<tr>
<td>HSTR 380</td>
<td>1.0</td>
<td>3-0-0</td>
<td>Religion and the Making of the Modern Middle East</td>
<td></td>
</tr>
<tr>
<td>HSTR 382</td>
<td>1.0</td>
<td>3-0-0</td>
<td>Topics in the History of Peace and War</td>
<td></td>
</tr>
<tr>
<td>HSTR 383A</td>
<td>1.0</td>
<td>3-0-0</td>
<td>War and Society Prior to 1700</td>
<td></td>
</tr>
<tr>
<td>HSTR 383B</td>
<td>1.0</td>
<td>3-0-0</td>
<td>War and Society, 1700 - 1914</td>
<td></td>
</tr>
<tr>
<td>HSTR 383C</td>
<td>1.0</td>
<td>3-0-0</td>
<td>War and Society, 1945-present</td>
<td></td>
</tr>
<tr>
<td>HSTR 385</td>
<td>1.0</td>
<td>3-0-0</td>
<td>Topics in Social and Cultural History</td>
<td></td>
</tr>
<tr>
<td>HSTR 385A</td>
<td>1.0</td>
<td>3-0-0</td>
<td>Witchcraft and its Persecution in the Early Modern Atlantic World</td>
<td></td>
</tr>
<tr>
<td>HSTR 385B</td>
<td>1.0</td>
<td>3-0-0</td>
<td>History of the Modern Olympic Games</td>
<td></td>
</tr>
<tr>
<td>HSTR 385C</td>
<td>1.0</td>
<td>3-0-0</td>
<td>History of Sexuality</td>
<td></td>
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<tr>
<td>HSTR 385D</td>
<td>1.0</td>
<td>3-0-0</td>
<td>Pirates and Piracy Since 1500</td>
<td></td>
</tr>
<tr>
<td>HSTR 389</td>
<td>1.0</td>
<td>3-0-0</td>
<td>Topics in Public History</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- May be taken more than once for credit in different topics with permission of the department.
- May be taken more than once for credit in different topics.
HSTR 236 recommended prior to HSTR 412A.

HSTR 415 Units: 1.5 Hours: 3-0-0
War and Social Change in England During the Two World Wars
Examines the impact on English society of the two World Wars of the twentieth century. Focuses on social history, exploring and testing the theory that, because they were 'total wars', the two total wars of the twentieth century led to profound social change in England. Examines the nature, experience and social repercussions of both wars and covers a broad variety of topics ranging from class and gender to art and culture.

Note: Credit will be granted for only one of HSTR 415, HIST 438 (if taken in the same topic).

HSTR 416 Units: 1.5 Hours: 3-0-0
Mass Media and British Politics and Society, 1896-1956
Focuses on the social, political and cultural implications of the emergence of new mass media in Britain in the late nineteenth and early twentieth century. Treats the issue both chronologically and thematically by concentrating on specific developments and particular cases.

Note: Credit will be granted for only one of HSTR 416, HIST 338 (if taken in the same topic).

Recommendation(s): A general knowledge of the period recommended prior to HSTR 416.

HSTR 412A Units: 1.5 or 3.0 Hours: 3-0-0
Formerly: HIST 320A
Crime and Criminality in Medieval England
Criminal activity and the responses of communities and authorities.

Note: Credit will be granted for only one of HSTR 412A, HIST 320 (if taken in the same topic), HIST 320A.

Recommendation(s): HSTR 236 recommended prior to HSTR 412A.

HSTR 414 Units: 1.5 Hours: 3-0-0
Formerly: HIST 319
Seminar in American History
Advanced readings and primary-source research into the history of gender and sexuality in America from the 1500s to the present day.

Note: May be taken more than once for credit in different topics with permission of the department.

HSTR 410 Units: 1.5 Hours: 3-0-0
Formerly: HIST 319
Seminar in American Gender and Sexuality
Advanced readings and primary-source research into the history of gender and sexuality in America from the 1500s to the present day.

Note: May be taken more than once for credit in different topics with permission of the department.

HSTR 412 Units: 1.5 Hours: 3-0-0
Formerly: HIST 320
Seminar in Medieval England

Notes:
- Credit will be granted for only one of HSTR 412, HIST 320 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

Recommendation(s): HSTR 236 recommended prior to HSTR 412.

HSTR 426 Units: 1.5 Hours: 3-0-0
Seminar in Canadian Military History
Examines warfare and the armed forces’ influence on the history of Canada. Topics include imperial war, defence policy and the birth of Canada, militia and society, the Boer War, First and Second World Wars, Korea, the Cold War, NATO, NORAD and peacekeeping and peace enforcement. Explores social, cultural, political and economic issues.

Note: May be taken more than once for credit in different topics with permission of the department.

Recommendation(s): HSTR 220 recommended prior to HSTR 420.

HSTR 429 Units: 1.5 Hours: 3-0-0
Seminar in Canadian Political History
Examines the elections, parties, policies, scandals, strategies and debates that have shaped Canada’s political environment since Confederation.

Note: May be taken more than once for credit in different topics with permission of the department.

HSTR 446F Units: 1.5 or 3.0 Hours: 3-0-0
Formerly: HIST 380D
Individual, Family and Community in Medieval Society
Medieval European social history, concentrating on the role of the individual in society, and especially the place of children, women and the aged in the community. Focus on the nature and function of marriage and the family.

Note: Credit will be granted for only one of HSTR 446F, HIST 380D.

Recommendation(s): HSTR 236 recommended prior to HSTR 446F.
### HSTR 436T - HSTR 477 COURSE LISTINGS

#### HSTR 436T

**The Records of the History of Middle-earth**
- Units: 1.5
- Hours: 3-0-0
- Advanced study of the complex sources that constitute the historical record of J.R.R. Tolkien’s Middle-earth, from Creation through the Second Age.

**Prerequisite(s):**
- One of HSTR 336T, HIST 380T, HIST 380A (if taken as section A01 in Jan-Apr 2013); or permission of the department.

**HSTR 436W**
- Units: 1.5 or 3.0
- Hours: 3-0-0
- Formerly: HIST 380E
- **Medieval Foundations of the Western Legal Tradition**
- Development of medieval ideas of law and the emergence of legal systems. Focus on the major changes in law and jurisprudence during the 11th and 12th centuries.

**Note:** Credit will be granted for only one of HSTR 436W, HIST 380E.

**Recommendation(s):** HSTR 236 recommended prior to HSTR 436W.

#### HSTR 440

**Seminar in European History**
- Units: 1.5
- Hours: 3-0-0
- Formerly: HIST 389

**Notes:**
- Credit will be granted for only one of HSTR 440, HIST 389 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

#### HSTR 442

**Criminality and Violence in Europe, 1400-1800**
- Units: 1.5
- Hours: 3-0-0
- Formerly: HIST 386

**Notes:**
- Credit will be granted for only one of HSTR 442, HIST 386.

#### HSTR 444

**Early Modern French Cultural History**
- Units: 1.5
- Hours: 3-0-0
- Uses the approach of cultural history to explore key themes in the history of early modern France. Topics include ritual and folktales, constructing and deconstructing the “Sun King”, a massacre of cats in 1730s Paris and other microhistories, theatre and punishment, the imprisonment of Louis XVI, the politicization of the everyday, the symbolism of the guillotine and a gentle introduction to cultural theory.

**Note:** Credit will be granted for only one of HSTR 444, HIST 389 (if taken in the same topic).

#### HSTR 445A

**Scandals in France, 1785-1914**
- Units: 1.5
- Hours: 3-0-0
- Formerly: HIST 371A

**Notes:**
- Credit will be granted for only one of HSTR 445A, HIST 371A.

**Recommendation(s):** HSTR 342B or HSTR 347A recommended prior to HSTR 445A.

#### HSTR 445B

**Scandals and Political Culture in France, 1870-2000**
- Formerly: HIST 371B

**Scandals and Political Culture in France, 1870-2000**
- Explores notorious political, economic and sexual scandals and evaluates contemporary values and political accountability.

**Note:** Credit will be granted for only one of HSTR 445B, HIST 371B.

**Recommendation(s):** HSTR 342B or HSTR 347A recommended prior to HSTR 445B.

#### HSTR 447

**Seminar in the History of Disease and Public Health**
- Units: 1.5
- Hours: 3-0-0
- Examines the relationship of disease, medicine and society from the Renaissance to the present. Emphasis on analysis of primary sources, advanced research strategies and collaborative work among students and instructor. Topics may include epidemic diseases and social responses, changes in medical/scientific technology, the relationship of religion and medicine and shifts in the social role of the medical professions.

**Notes:**
- Credit will be granted for only one of HSTR 447, HIST 469 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

#### HSTR 450

**The Holocaust**
- Also: GMST 580
- Formerly: HIST 387

**The Holocaust**
- Examines the origins, progression, central characters and legacies of the Nazi genocide. Focuses on Jewish experiences of Nazi terror and investigates how Nazi racial policy targeted other social and ethnic groups. Considers the post-1945 representation of the Holocaust in film, museum exhibits and memorials.

**Notes:**
- Credit will be granted for only one of HSTR 450, GMST 580, HIST 387, HIST 389 (if taken in the same topic).

**Prerequisite(s):**
- One of HSTR 240, HSTR 240A, HSTR 240B, HSTR 344B, HSTR 350B, HIST 140, HIST 140A, HIST 140B, HIST 366, HIST 373; and
- minimum third-year standing.

#### HSTR 451

**Seminar in Russian and Eastern European History**
- Units: 1.5
- Hours: 3-0-0
- Seminar in Russian and Eastern European History
- Topics may include the Russian Revolution, Stalinism, the Soviet collapse and post-communist Russia.

**Notes:**
- Credit will be granted for only one of HSTR 451, HIST 389 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

**Prerequisite(s):**
- HIST 350B
- HIST 140A
- HIST 140B
- HIST 366
- Minimum third-year standing.

#### HSTR 460

**Seminar in World History**
- Units: 1.5
- Hours: 3-0-0
- Examines how ethnicity, class and gender shaped the development; land, labour and global economy; modes of historical memory. One-week classroom intensive at the University and three weeks in South Africa.

**Notes:**
- Credit will be granted for only one of HSTR 474, HIST 470 (if taken as section A01 or A02 in May-Aug 2014).

#### HSTR 465

**Seminar in East Asian History**
- Formerly: HIST 439

**Notes:**
- Credit will be granted for only one of HSTR 465, HIST 439 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

#### HSTR 465A

**China in Local and Global History**
- Also: HIST 508A

**China in Local and Global History**
- Examines the local history and global networks of Tibet, Taiwan, and Hong Kong as well as the North China Plain (around Beijing), the Yangzi River Delta (around Shanghai), and the Pearl River Delta (around Canton) in China up to the mid-20th century. Emphasis on both local and global approaches to the six regions and to modern China beyond the limits of its nation-state history.

**Notes:**
- Credit will be granted for only one of HSTR 465A, HSTR 465B (if taken as section A01 in Jan-Apr 2015), HSTR 508A, HIST 439 (if taken as section A01 in Sept-Dec 2011), HIST 508B.

#### HSTR 471

**Seminar in Thematic and Comparative History**
- Units: 1.5
- Hours: 3-0-0
- Seminar in Thematic and Comparative History
- Topics may include sustainable rural development; apartheid and reconciliation; grassroots anti-poverty initiatives; community responses to HIV/AIDS; gender and development; land, labour and global economy; modes of historical memory. One-week classroom intensive at the University and three weeks in South Africa.

**Notes:**
- Credit will be granted for only one of HSTR 471, HIST 470 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

#### HSTR 474

**Colonial Legacies Field School in South Africa**
- Units: 3.0
- Students learn about impacts of colonial histories in everyday life and on rural and urban landscapes. Topics may include: sustainable rural development; apartheid and reconciliation; grassroots anti-poverty initiatives; community responses to HIV/AIDS; gender and development; land, labour and global economy; modes of historical memory. One-week classroom intensive at the University and three weeks in South Africa.

**Notes:**
- Credit will be granted for only one of HSTR 474, HIST 470 (if taken as section A01 or A02 in May-Aug 2014).

#### HSTR 476

**Indigenous, Mestizo and Spanish Accounts of the Conquest**
- Units: 1.5
- Hours: 3-0-0
- Indigenous, Mestizo and Spanish Accounts of the Conquest
- Examines the hostility, class and gender shaped the sixteenth-and seventeenth-century accounts of the Spanish conquests in the Americas. Authors studied include Cortes, Alva Ixtlilxochitl, Sahagun, Poma de Ayala, the Inca Garcilaso de la Vega and Sor Juana Ines de la Cruz.

#### HSTR 477

**Seminar in the History of the Modern Middle East**
- Units: 1.5
- Hours: 3-0-0
- Seminar in the History of the Modern Middle East
- Intensive study of selected aspects of the modern history of the Middle East and North Africa region in its global context. Close attention is paid to recent titles in the historiography.

**Notes:**
- Credit will be granted for only one of HSTR 477, HIST 377 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.
HSTR 479 - HUMA 100

HSTR 479  Units: 1.5  Hours: 3-0-0
Also: RS 479
Formerly: HIST 443
Religion and State in the Modern Middle East
Examines the historical junctures and socio-economic conditions in which modern Islamist movements have emerged. Comparative study of the politicization of Christian and Jewish communities in the Middle East (the Arab East, plus Iran, Israel, Turkey) and North Africa, reflection on the political influence of religion in neighbouring areas.
Note: Credit will be granted for only one of HSTR 479, HSTR 380, HIST 443, HIST 468 (if taken in the same topic), HIST 469 (if taken in the same topic), RS 479.
Prerequisite(s):
• Declared Honours in History; or
• permission of the department.
Recommendation(s): HSTR 112, or HIST 112A and HSTR 112B recommended prior to HSTR 479.

HSTR 481  Units: 1.5  Hours: 3-0-0
Also: HIST 508B
Formerly: HIST 451
A Global History of the Chinese Overseas
Examination of the Chinese diaspora in Southeast Asia, North America and other regions. Emphasis on the emigration from China, transformation of Chinatowns and development of global networks and transnational identities of the Chinese overseas. May include exploration of the diasporic experiences of Japanese, Korean, Indian and other Asian migrants in the global arena.
Note: Credit will be granted for only one of HSTR 481, HSTR 508B, HIST 451.

HSTR 482  Units: 1.5  Hours: 3-0-0
Formerly: HIST 394
Seminar in Peace and War Studies
Selected topics in military and peace studies. Students will be encouraged to pursue their own research interests within the confines of course topics. Topics may include: philosophers of peace and war; the social history of war; the First World War.
Notes:
• Credit will be granted for only one of HSTR 482, HIST 394 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

HSTR 482A  Units: 1.5  Hours: 3-0-0
Formerly: HIST 391
Issues in the History of the Second World War
Examines current historiographical issues of the Second World War.
Note: Credit will be granted for only one of HSTR 482A, HIST 391, HIST 392 (if taken in the same topic).
Recommendation(s): HSTR 115 and/or HSTR 344C recommended prior to HSTR 482A.

HSTR 484  Units: 1.5  Hours: 3-0-0
The History of Food
Explores the history of how food has been produced, prepared, traded, and consumed, in North America and the world. Themes include migration, gender, economy, technology, race, and culture.
Note: Credit will be granted for only one of HSTR 484, HIST 469 (if taken in the same topic).

HSTR 485  Units: 1.5  Hours: 3-0-0
Seminar in Social and Cultural History
Explores one or more of the following topics: issues of gender and sexuality; the social and cultural study of religion; questions of migration or racialization; health and medicine; education; sport; science; the body.
Note: May be taken more than once for credit in different topics with permission of the department.

HSTR 485A  Units: 1.5  Hours: 3-0-0
Gender, Sexuality and the Body since 1800
Explores selected topics in gender history, the history of sexuality and the history of the body, primarily in the context of Canada, the United States and Britain in the nineteenth and twentieth centuries. Topics may include body image, fashion, work, family life, marriage, motherhood, transgender and transsexual issues, colonialism, religion, popular culture and violence. Examines a variety of sexualities historically, including heterosexuality, lesbianism, homosexuality and bisexuality.
Note: Credit will be granted for only one of HSTR 485A, HIST 469 (if taken in the same topic).

HSTR 489  Units: 1.5  Hours: 3-0-0
Seminar in Public History
Public History involves all the applications of history outside of academia. Explores one or more of the following public history subjects: heritage and museum studies; public memory and commemoration; oral history; digital history; historical re-enactments; history in the popular media; history and community engagement.
Note: May be taken more than once for credit in different topics with permission of the department.

HSTR 489A  Units: 1.5 or 3.0  Hours: 3-0-0
Formerly: HIST 481
Doing History in a Digital World
A hands-on, workshop-oriented introduction to archival research and writing history for the internet. Often collaborating with community groups, students work in teams to create authoritative, engaging websites on different themes.
Note: Credit will be granted for only one of HSTR 489A, HIST 358 (if taken in the same topic), HIST 359 (if taken in the same topic), HIST 481.
Prerequisite(s):
• Minimum third-year standing; or
• permission of the department.

HSTR 490  Units: 1.5 or 3.0
Formerly: HIST 490
Directed Reading
Students wishing to pursue a course of directed reading should, together with a faculty member willing to supervise such a course, formulate a proposal describing both the content of the course and a suitable means of evaluating the student’s work. The proposal must then receive the approval of the Chair of the department.
Note: HSTR 490, HIST 490 may be taken more than once for credit in different topics with permission of the department to a maximum of 6 units, but not more than 1.5 units in any one term.

HSTR 496  Units: 3.0  Hours: 3-0-0
Formerly: HIST 480
Approaches to History
The history of history and the nature of history as an intellectual discipline.
Note: Credit will be granted for only one of HSTR 496, HIST 480.
Prerequisite(s):
• Declared Honours in History; or
• permission of the department.

HSTR 497  Units: 3.0
Formerly: HIST 398
Third-Year Honours Essay
Supervised readings and research. Students will be required to write a research essay of 7,500-10,000 words under the direction of a member of the department.
Note: Credit will be granted for only one of HSTR 497, HIST 398, HIST 495.
Prerequisite(s):
• Declared Honours in History; or
• permission of the department.

HSTR 499  Units: 3.0
Formerly: HIST 497
Honours Thesis
Under the direction of a member of the department students prepare an honours thesis, a research essay normally based on primary sources. After acceptance of the thesis by the supervising faculty member, the student defends it in an oral examination. The thesis is 7,500-10,000 words in length unless it is an expansion of a third-year honours essay (398) in which case it is 15,000-20,000 words in length.
Note: Credit will be granted for only one of HSTR 499, HIST 496, HIST 497.
Prerequisite(s):
• Declared Honours in History; or
• permission of the department.

HUMA

Humanities
Faculty of Humanities

HUMA 010  Units: 0
Diploma Orientation Seminar
This seminar will be taken prior to or in conjunction with Humanities 100 by all students in the Diploma Program.
Grading: COM, INC.

HUMA 100  Units: 1.5  Hours: 3-0-0
An Introduction to Humanities
An introduction to the various ways in which scholars from different disciplines in the Humanities interpret, analyze and evaluate texts.
Note: Credit will be granted for only one of HUMA 100, HUMA 110, HUMA 120, HUMA 129A, HUMA 129B.
Prerequisite(s): Admission to Diploma program in Humanities.
The Humanities in the Contemporary World
Exposes students to the multiple ways in which the disciplines of the Humanities study and understand contemporary issues, both local and global. Introduces a range of concepts, skills and methods, as taught by a variety of faculty members in the Humanities, such as cultural and historical analysis, theoretical and philosophical inquiry, use of language and appraisal of evidence.

Note: Credit will be granted for only one of HUMA 110, HUMA 100.

HUMA 120A Units: 1.5 Hours: 2-0-1
Formerly: part of HUMA 120

Humanities and the Making of the Intellectual Life
From the Greco-Roman through the Medieval and Renaissance periods, a survey of intellectual inquiry and of its traditions, including philosophy, religion, literature, art, music, mathematics, physics and astronomy. Explores the world of ideas which shaped our ways of thinking and of living together. Scholars from a number of disciplines contribute.

Note: Credit will be granted for only one of HUMA 120A, HUMA 100, HUMA 120.

HUMA 120B Units: 1.5 Hours: 2-0-1
Formerly: part of HUMA 120

Post-Medieval Humanities and the Making of the Modern Mind
From 1500 to the present, a survey of the main questions about the world, humankind, science and society as they have been addressed by scholars, scientists and artists. Explores how challenges to authority built the modern world and defined progress, doubt, individuality, equity and plurality. Scholars from a number of disciplines contribute.

Note: Credit will be granted for only one of HUMA 120B, HUMA 100, HUMA 120.

HUMA 295 Units: 1.5 Hours: 3-0-0
Introductory Topics in Humanities

Note: May be taken more than once for credit in different topics with permission of the faculty.

HUMA 495 Units: 1.5 Hours: 3-0-0
Advanced Topics in Humanities

Note: May be taken more than once for credit in different topics with permission of the faculty.

IB

International Business
Peter B. Gustavson School of Business
Courses offered by the Peter B. Gustavson School of Business are also found under the following course codes: COM (Commerce), ENT (Entrepreneurship), SMGT (Service Management), MBA (Master’s of Business Administration).

IB 301 Units: 1.5 Hours: 3-0-0
The International Environment of Business
Aspects of the global business environment with emphasis on the reasons for international trade, economic structure of the world marketplace, and the important trading relations among nations.

Notes:
• Not open to students registered in or with credit in COM 361.
• Not available for supplemental.
• Not open to BCom students; not intended for students seeking entry to Bachelor of Commerce program.
• Credit will not be granted toward the Bachelor of Commerce program.
Prerequisite(s): Minimum third-year standing.

IB 405 Units: 1.5 Hours: 3-0-0
Sustainable Communities
Critically examines the global landscape in which business operates, with attention paid to social, political, economic and cultural issues, and considers the role that might be played by business in developing sustainable local societies.

Note: Credit will be granted for only one of IB 405, COM 450 (if taken in the same topic).
Prerequisite(s):
• IB 301 or COM 361; and
• minimum fourth-year standing; or
• permission of the school.

IB 408 Units: 1.5 Hours: 3-0-0
International Legal Relations
The legal aspects of various international economic organizations including the World Bank, the International Monetary Fund, and the General Agreement on Tariffs and Trade (GATT). Canadian administrative law aspects relating to regulation of trade will be analyzed in the economic and political setting of the world community.

Prerequisite(s):
• IB 301 or COM 361; and
• minimum fourth-year standing; or
• permission of the school.

IB 409 Units: 1.5 Hours: 3-0-0
Selected Topics in International Business Management
An analysis of international business as it relates to specialized fields with specific topics added on a regular basis to reflect changing issues and faculty availability. Topics vary on a yearly basis, and thus students should consult with the Gustavson School of Business for current offerings.

Note: May be taken more than once for credit in different topics with permission of the school.
Prerequisite(s):
• IB 301 or COM 361; and
• minimum fourth-year standing; or
• permission of the school.

IB 415 Units: 1.5 Hours: 3-0-0
Cross-National Management
An analysis of the influence of national culture on managerial practices, including the issues surrounding the transferability of such managerial practices.

Note: Credit will be granted for only one of IB 415, IB 302.
Prerequisite(s):
• Either IB 301 and COM 220, or COM 321 and COM 361; and
• minimum fourth-year standing.

IB 416 Units: 1.5 Hours: 3-0-0
International Marketing
Opportunities, characteristics, and trends in foreign markets as well as strategies and problems of adapting marketing concepts and methods in international settings.

Note: Credit will be granted for only one of IB 416, IB 401.
Prerequisite(s):
• Either IB 301 and COM 250, or COM 351 and COM 361; and
• minimum fourth-year standing.

IB 417 Units: 1.5 Hours: 3-0-0
International Finance
Financial problems of multinational business, international financial environment, long-term capital commitment to an international venture, financial techniques for firm operation.

Note: Credit will be granted for only one of IB 417, IB 403.
Prerequisite(s):
• Either IB 301 and COM 240, or COM 361 and COM 371; and
• minimum fourth-year standing.

IB 418 Units: 1.5 Hours: 3-0-0
International Work Study
A project-based work study carried out for organizations located outside Canada. Students will conduct research and complete projects assigned by the host organization.

Note: Travel fees apply for this course.
Prerequisite(s):
• Minimum third-year standing; and
• admission to BCom program.

ICDG

Indigenous Community Development and Governance
School of Public Administration
Faculty of Human and Social Development

ICDG 300 Units: 1.0
Skills Workshop and Orientation
Introduces students to the skills they will require to engage in online learning and academic writing. Also provides an orientation to the DCDG program.

Grading: COM, N, F.
ICDG 301 | Units: 1.5
Governance in Indigenous Communities
Provides foundational information of concepts, themes and topics related to Indigenous governance, including historical and contemporary challenges facing Indigenous peoples in Canada. Topics are organized by eras beginning with pre-contact, European settlement, colonialism and treaties before proceeding to Constitutional Reform and the inherent right to self-government. Administrative aspects of Indigenous governance are examined: fiscal governance, economic development, program and service delivery, and intergovernmental relations.

Note: Credit will be granted for only one of ICDG 301, ADMN 470 (if taken in the same topic).

ICDG 302 | Units: 1.5
Communications in Indigenous Governments and Organizations
Contemporary communications theory and application with specific emphasis on the communication tools necessary in Indigenous government organizations. Topics include: developing excellent written, verbal and interpersonal communication skills; technical and strategic approaches to written and verbal communication for internal and external audiences; stages of the writing process; report writing skills; composing responses, briefing notes, news releases and sensitive messages. Practices, strategies and tools necessary to engage Council, community and stakeholders using effective and inclusive communication processes.

ICDG 303 | Units: 1.5
Lands, Resources, and Economic Development
Indigenous identity, culture, and economy is deeply connected to the land. Colonization restricted access to land and marginalized Indigenous economic development. Learners review the historic relationship to lands and the struggle to regain control and ownership. Canvassing governance frameworks for land, we consider opportunities to expand ownership and control. Economic implications are considered and success stories are highlighted. Students will consider what reconciliation means for the development of lands and resources.

ICDG 304 | Units: 1.5
Strategic Planning and Implementation
Using a combination of Indigenous and Western planning concepts and processes, this is organized into four main themes described as Planting Season, Gathering Season, The Journey and The Path Forward. Topics include: Indigenous perspectives of planning, strategic planning as nation building, the role of community engagement in strategic planning and community development, strategic thinking, components of a strategic plan, the role of strategic management, and the role of leadership in strategic planning.

Note: Credit will be granted for only one of ICDG 304, ADMN 477.

ICDG 305 | Units: 1.5
Indigenous Research and Project Management
Provides skills and guidance for the planning and successful completion of the capstone community project (ICDG 401). Participants will explore, analyze, and benefit from available project management models and planning tools, learn to view community and organizational change in different ways, explore alternative models and examples of change, and review and discuss the utilization of Indigenous Knowledge and respectful research protocols when planning for and implementing change strategies.

ICDG 306 | Units: 1.5
Human Resource Management in Indigenous Organizations
Learning based on contemporary human resource management theory and practice; incorporating traditional Indigenous practices and values. Topics: developing a human resources plan; robust human resources policies and practices; managing people and tasks; interpersonal workplace communications and relations; selection; retention; and development of employees. Improving workplaces will be examined through team building, motivating self and others, providing feedback, conflict management, workplace safety, well-being, and self-awareness and self-care. Examine working with appointed boards in an Indigenous context.

Note: Credit will be granted for only one of ICDG 306, ADMN 431A.

ICDG 307 | Units: 1.5
Managing Change for Effective Social and Community Development
Examines how social and cultural factors influence community development and well-being initiatives. Participants will analyze and assess needs for social and community activities and services - past, present, and future, and identify resources and jurisdictional issues in the development and implementation of community-based and organizational initiatives. Community characteristics will be identified and their potential role/impact on proposed initiatives, while addressing issues of sustainability and development of effective partnerships and leading change agendas.

ICDG 308 | Units: 1.5
Financial Management in Indigenous Governments and Organizations
Managing financial resources effectively is a primary responsibility of leaders/administrators. Provides an overview of how Indigenous governments are financed and tools used to care for money systematically and transparently. Learning focuses on resource allocation, budgeting, control and accountability for governments and organizations. Students develop practical financial skills needed to make appropriate management decisions. Topics of special interest to Indigenous governments include taxation, housing, performance management, and communicating important financial information to decision-makers.

ICDG 400 | Units: 1.5
Leadership in Indigenous Communities and Governments
Develops capacities to understand, appreciate, and develop students' own leadership and that of others. Drawing on both Western theory and practice and Indigenous values and leadership practices, students will develop an understanding of different leadership styles, team dynamics, motivation and management of people and projects within diverse communities facing both internal and external challenges. Provides experiential learning, development of self-knowledge, and acquisition of practical leadership skills and strategies for the workplace and community.

ICDG 401 | Units: 1.5
Capstone Project for Indigenous Governments and Organizations
In this capstone course, learners integrate the curricular, cross-disciplinary strands of the ICDG program through the application of their learning outcomes, in a community context. Learners continue to develop leadership skills and increase their awareness and appreciation for the relevance of their chosen areas of interest in Indigenous governance and administration through a community service-learning experience. Learners will complete a substantial analysis of a management, policy or program problem for an Indigenous community or organization.

ICDG 402 | Units: 1.5
Intergovernmental Relations: Working with Others
Topics include how and why it is necessary to develop and maintain successful relationships with other Indigenous governments and organizations, community organizations, and municipal, provincial/territorial, or federal governments. Administrators examine how authorities, rights, laws/ regulations, and interests shape outcomes, whether negotiating treaties, exercising rights in areas with overlapping jurisdictions, or developing partnerships for economic development or service delivery. Examines Indigenous and treaty rights, application of the Indian Act, treaty negotiations, alternative partnerships, lands and resources issues.
# IED

## Indigenous Education

### Faculty of Education

Courses offered by the Faculty of Education are also found under the following course codes: AE, ED-D, ED-P, EDCL, EPHE, IA, IED, IE, ME.

### IED 156

**Units:** 1.5  
**Hours:** 3-0-0  
**Also:** LING 156  
**Self-Directed Immersive Language Learning I**  
Equips and supports students to find, create and engage in immersive communicative learning contexts for their own Indigenous languages at an introductory level through participation in self-directed language activities. Students log 75-100 hours of communicative Indigenous language learning through a variety of self-directed methods.  
**Note:** May be taken more than once for credit with permission of the department.  
**Prerequisite(s):**  
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization, or permission of the department.  
**Grading:** INP, COM, N, F.

### IED 157

**Units:** 1.5  
**Hours:** 3-0-0  
**Also:** LING 157  
**Supporting Indigenous Language Learning**  
Supports students learning their Indigenous language by examining effective strategies for adult L2 (second language) learners. Students explore what is known about becoming successful language learners, considering individual learning styles and the human and other resources available to learners.  
**Notes:**  
- Credit will only be granted for only one of IED 157, LING 157.  
**Prerequisite(s):**  
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization, or permission of the department.  
**Grading:** INP, COM, N, F.

### IED 158

**Units:** 1.5  
**Hours:** 3-0-0  
**Also:** LING 158  
**Indigenous Language Mentorship I**  
75-100 hours of mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the introductory level.  
**Notes:**  
- May be taken more than once for credit with permission of the department.  
- Subject to the "Guidelines for Ethical Conduct" and "Regulations Concerning Practica".  
**Prerequisite(s):**  
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization, or permission of the department.  
**Grading:** INP, COM, N, F.

### IED 159

**Units:** 1.5  
**Hours:** 3-0-0  
**Also:** LING 159  
**Indigenous Language I**  
Learning an Indigenous language at the first-year level.  
**Notes:**  
- May be taken more than once for credit with permission of the department.  
- Registration is normally limited to students in one of the BEd or Diploma in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, or Certificate in Indigenous Language Revitalization.  
**Grading:** INP, COM, N, F.

### IED 187

**Units:** 1.5  
**Hours:** 3-0-0  
**Special Topics in Indigenous Education**  
May be taken more than once for credit in different topics with the permission of the program.  
**Grading:** INP, COM, N, F.

### IED 199

**Units:** 1.5  
**Hours:** 3-0-0  
**Special Studies in Indigenous Education**  
Note: May be taken more than once for credit in different topics with the permission of the program.  
**Grading:** INP, COM, N, F.

### IED 250

**Units:** 1.5  
**Hours:** 3-0-0  
**Indigenous Language Teaching Preparation Seminar**  
Prepares students for their first language practicum within the Diploma in Indigenous Language Revitalization. Provides an opportunity for students to orient themselves to the multiple roles and responsibilities of school personnel and community language practitioners. Students will plan and prepare specifically for their upcoming placements through practice and development of lesson planning, and linking outcomes to delivery and assessment for language teaching. Planning may be done in pairs as a co-teaching model when possible.  
**Note:** Credit will be granted for only one of IED 250, IED 287 (if taken in the same topic).  
**Prerequisite(s):**  
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization, or permission of the faculty.  
**Grading:** INP, COM, N, F.

### IED 251

**Units:** 1.5  
**Hours:** 3-0-0  
**Indigenous Language Teaching and Learning Practicum**  
Students in the Diploma in Indigenous Language Revitalization program will undertake a three-week practicum experience in Indigenous language teaching and learning settings.  
**Pre- or Corequisite(s):** IED 250.  
**Grading:** INP, COM, N/X, F/X.

### IED 256

**Units:** 1.5  
**Hours:** 3-0-0  
**Also:** LING 256  
**Self-Directed Immersive Language Learning II**  
Equips and supports students to find, create and engage in immersive, communicative learning contexts for their own Indigenous languages at the second-year level. Students will be supported to create self-directed language domains in their lives. Students will be required to log 75-100 hours of communicative Indigenous language learning through a variety of self-directed methods.  
**Note:** May be taken more than once for credit with permission of the department.  
**Prerequisite(s):**  
- One of IED 156, IED 159, LING 156, LING 158, LING 159; and  
- admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or  
- permission of the department.  
**Grading:** INP, COM, N, F.

### IED 258

**Units:** 1.5  
**Hours:** 3-0-0  
**Also:** LING 258  
**Indigenous Language Mentorship II**  
75-100 hours of mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the second-year level.  
**Notes:**  
- May be taken more than once for credit with permission of the department.  
- Subject to the "Guidelines for Ethical Conduct" and "Regulations Concerning Practica".  
**Prerequisite(s):**  
- One of IED 156, IED 158, IED 159, LING 156, LING 158, LING 159; and  
- admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or  
- permission of the department.  
**Grading:** INP, COM, N, F.

### IED 259

**Units:** 1.5  
**Hours:** 3-0-0  
**Also:** LING 259  
**Indigenous Language II**  
Learning an Indigenous language at the second-year level.  
**Note:** May be taken more than once for credit with permission of the department.  
**Prerequisite(s):**  
- One of IED 156, IED 158, IED 159, LING 156, LING 158, LING 159; and  
- admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or  
- permission of the department.  
**Grading:** INP, COM, N, F.

### IED 287

**Units:** 1.5  
**Hours:** 3-0-0  
**Special Topics in Indigenous Education**  
May be taken more than once for credit in different topics with the permission of the faculty.

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COURSES LISTINGS IED


### IED 299 - Special Studies in Indigenous Education

**Units:** 1.5 **Hours:** 3-0-0

**Note:** May be taken more than once for credit with permission of the department.

**Grading:** COM, N, F.

### IED 256 - Self-Directed Immersive Language Learning II

Also: LING 356

**Prerequisite(s):**
- One of IED 256, IED 258, IED 259, LING 256, LING 258, LING 259, and
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization, or permission of the department.

**Note:** May be taken more than once for credit with permission of the department.

### IED 358 - Indigenous Language Mentorship I

Also: LING 358

75-100 hours of mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the third-year level.

**Notes:**
- May be taken more than once for credit with permission of the department.
- Subject to the “Guidelines for Ethical Conduct” and “Regulations Concerning Practica”.

**Prerequisite(s):**
- One of IED 256, IED 258, IED 259, LING 256, LING 258, LING 259, and
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization, or permission of the department.

**Grading:** INP, COM, N, F.

### IED 359 - Indigenous Language III

Also: LING 359

**Learning an Indigenous language at the third-year level.**

**Note:** May be taken more than once for credit with permission of the department.

**Prerequisite(s):**
- One of IED 256, IED 258, IED 259, LING 256, LING 258, LING 259, and
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization, or permission of the department.

### IED 371 - The History of Indigenous Education in Canada

Formerly: EDCI 371, IS 371

**Units:** 1.5 **Hours:** 3-0-0

**Note:** Credit will be granted for only one of IED 371, EDCI 371, IS 371.

**Grading:** COM, N, F.

### IED 372 - Indigenous Epistemologies

An exploration of Indigenous knowledge and practices of First Nations, Métis, and Inuit people. Discussion topics include: Indigenous worldviews, frameworks, methodologies, and protocols that validate Indigenous ways of being and living, and the appreciation of the mental, spiritual, physical and emotional aspects of Indigenous knowledge.

**Note:** Credit will be granted for only one of IED 372, EDCI 372, IS 372.

**Grading:** COM, N or F.

### IED 373 - Indigenous Pedagogies

Provides students with an examination of traditional and contemporary approaches to teaching and learning within an Indigenous worldview. Elements include distinctive features of Indigenous knowledge and pedagogy such as learning by observation and doing, learning through enjoyment, teachings of the Elders, and the use of humor among others.

**Note:** Credit will be granted for only one of IED 373, EDCI 373, IS 373.

### IED 374 - Indigenous Pedagogies

**Units:** 1.5 **Hours:** 3-0-0

**Note:** Credit will be granted for only one of IED 374, EEDC 374 (if taken in the same topic).

**Grading:** COM, N, F.

### IED 387 - Special Topics in Indigenous Education

**Units:** 1.5 **Hours:** 3-0-0

**Note:** May be taken more than once for credit in different topics with the permission of the faculty.

### IED 399 - Special Studies in Indigenous Education

**Units:** 1.5 **Hours:** 3-0-0

**Note:** May be taken more than once for credit in different topics with the permission of the faculty.

**Grading:** COM, N, F.

### IED 456 - Self-Directed Immersive Language Learning IV

Also: LING 456

75-100 hours of mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the fourth-year level.

**Notes:**
- May be taken more than once for credit with permission of the department.
- Subject to the “Guidelines for Ethical Conduct” and “Regulations Concerning Practica”.

**Prerequisite(s):**
- One of IED 356, IED 358, IED 359, LING 356, LING 358, LING 359, and
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization, or permission of the department.

### IED 458 - Indigenous Language Mentorship IV

Also: LING 458

75-100 hours of mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the fourth-year level.

**Notes:**
- May be taken more than once for credit with permission of the department.
- Subject to the “Guidelines for Ethical Conduct” and “Regulations Concerning Practica”.

**Prerequisite(s):**
- One of IED 356, IED 358, IED 359, LING 356, LING 358, LING 359, and
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization, or permission of the department.

### IED 459 - Indigenous Language IV

Learning an Indigenous language at the fourth-year level.

**Note:** May be taken more than once for credit with permission of the department.

**Prerequisite(s):**
- One of IED 356, IED 358, IED 359, LING 356, LING 358, LING 359, and
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization, or permission of the department.
### Professional Development - Indigenous Education

**IED 473**  
Units: 1.5  
Hours: 3-0-0  
**CENENITEL TW TOLNEW: Helping each other to learn**  
Introduction to an Indigenous world of learning and teaching through hands-on practical activities integrated with theoretical and academic goals. Experiences in the principles of traditional Indigenous ways of teaching and learning such as mentorship and apprenticeship. Respectful practice, community engagement and personal responsibility help learners develop insight into Indigenous pedagogy while working alongside community knowledge keepers, elders and artists.  

**Notes:**  
- Credit will be granted for only one of IED 473, EDCI 499 (if taken in the same topic).  
- May be taken more than once for credit in different topics with the permission of the faculty.  

**Grading:** COM, N, F.

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### Immersion Language Teaching Methodologies

**IED 475**  
Units: 1.5  
Hours: 3-0-0  
**Immerison Language Teaching Methodologies**  
Building on students’ experience, skills and knowledge gained through previous coursework and practicum in the Bachelor of Education in Indigenous Language Revitalization program, this course focuses on development and teaching of Indigenous Languages in immersion settings. It will provide an overview of the theory and practice of Indigenous language teaching methods through a workshop format.  

**Note:** Credit will be granted for only one of IED 475, IED 487 (if taken in the same topic).  

**Prerequisite(s):**  
- Registration in BEd program in Indigenous Language Revitalization, or  
- permission of the faculty.

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### Teaching Indigenous Arts in Elementary and Middle Schools

**IED 486**  
Units: 1.5  
Hours: 3-0-0  
**Teaching Indigenous Arts in Elementary and Middle Schools**  
Students will explore principles, practice and methods of instruction in areas of Indigenous Arts and will gain an appreciation of the depth and context of each discipline, respecting various cultural practices and traditions.  

**Notes:**  
- Credit will be granted for only one of IED 486, IED 487 (if taken in the same topic).  
- May be taken more than once for credit in different topics.  
- Fulfills the curriculum methods in teaching Art, Music and/or Drama requirement in the Bachelor of Education in Indigenous Language Revitalization within an Indigenous framework.  

**Prerequisite(s):**  
- Registration in BEd program in Indigenous Language Revitalization, or  
- permission of the faculty.

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### Special Topics in Indigenous Education

**IED 487**  
Units: 1.5  
Hours: 3-0-0  
**Special Topics in Indigenous Education**  
Note: May be taken more than once for credit in different topics with the permission of the faculty.

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### Indigenous Leadership and Governance

**IGOV 381**  
Units: 1.5  
**Indigenous Leadership and Governance**  
Explores the political, social and intellectual dynamics of leadership in contemporary Indigenous communities. Focuses on locating the current issues and problems within a historical framework of understanding based on colonization. From a perspective rooted in traditional values and a commitment to Indigenous nationhood, considers the organizing processes, goals, structure, culture, and power issues that affect Indigenous peoples’ struggle to achieve self-determination.

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### Indigenous Resurgence

**IGOV 382**  
Units: 1.5  
**Indigenous Resurgence**  
An introduction to the spiritual and cultural foundations of Indigenous governance systems, and an examination of how traditional values, principles and worldviews shape Indigenous thought and action in resistance to colonialism.

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### The Indigenous-State Relationship

**IGOV 383**  
Units: 1.5  
**The Indigenous-State Relationship**  
Considers the traditional nature and contemporary evolution of the relationship between Indigenous people and the state in a global context, with a special emphasis on local dynamics and the situation of Indigenous governments in relation to the Canadian federal system. Focuses on contrasting Indigenous perspectives with an understanding of the current status of the relationship in legal, political and economic terms. The various processes and concepts used in the discussion of self-government and self-determination will be examined and compared to Indigenous notions of nationhood, power and justice.

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### Special Issues in Indigenous Governance

**IGOV 384**  
Units: 1.5-3.0  
**Special Issues in Indigenous Governance**  
An opportunity to examine and discuss the most relevant of contemporary issues facing Indigenous peoples.  

**Note:** May be taken more than once for credit in different topics.

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### Indigenous Research Methods

**IGOV 400**  
Units: 1.5  
Hours: 3-0-0  
**Indigenous Research Methods**  
A perspective on the methods and approaches used in the study of Indigenous issues, providing the basic tools and methods used for conducting applied research, as well as an exploration of the practical, ethical, and political issues involved in conducting research in Indigenous communities.

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### Indigenous Health Studies

**INGH 452**  
Units: 1.5  
**Traditional Healing in Indigenous Communities**  
Explores traditional healing and medicine within Indigenous models of health. Particular emphasis is placed on the role of spirituality and ceremony as well as that of elders and traditional healers. Students will become familiar with the function of natural medicines and healing practices with diverse Indigenous cultures.

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### Wise Practices in Indigenous Community Health

**INGH 453**  
Units: 1.5  
**Wise Practices in Indigenous Community Health**  
Focuses on population and public health models to examine the current state of Indigenous health policies, programs and services in Canada, with particular emphasis on those that function to improve Indigenous community health. Students will also explore jurisdictional barriers to optimal health as well as community-based interventions that promote health. Within this framework, the concept and utility of cultural safety within mainstream health care systems will be examined.

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### International Health Studies

**INTS 460**  
Units: 1.5  
**Foundations in International and Global Health**  
Focuses on the history and context of international and global work in health and human development sectors. Students will critically examine various models and frameworks that have traditionally been used in providing international aid. The impact of colonization and globalization on health and human development is explored including an examination of factors such as economics, politics and technology.  

**Notes:**  
- Credit will be granted for only one of INTS 460, PHSP 591 (if taken in the same topic).  
- May be offered as a joint undergraduate and graduate class.

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### The Role of Knowledge in Global Health

**INTS 462**  
Units: 1.5  
**The Role of Knowledge in Global Health**  
Focuses on issues and challenges in international and global work in the fields of health and human development. Using case studies and a broad definition of research that includes the production and application of knowledge, critically examines various factors influencing an integrated and sustainable approach to international work promoting health and human development.  

**Notes:**  
- Credit will be granted for only one of INTS 462, PHSP 591 (if taken in the same topic).  
- May be offered as a joint undergraduate and graduate class.
Indigenous Studies

Indigenous Studies Program
Faculty of Humanities

IS 101 Units: 1.5 Hours: 3-0-0
Formerly: IS 200A, part of IS 200
Indigenous Foundations
Students are introduced to foundational contexts and concepts in the field of Indigenous Studies. Emphasis on the formation, maintenance and diversity of Indigenous identities and on the ways Indigenous peoples have experienced and resisted colonialism. Students will be introduced to guest speakers, films and community-centred activities.

Note: Credit will be granted for only one of IS 101, IS 200, IS 200A, IS 200B.

IS 201 Units: 1.5 Hours: 3-0-0
Formerly: IS 200B, part of IS 200
Introduction to Indigenous Studies
Introduces students to historical, social, political, legal, and gendered frameworks that shape the relationship between Indigenous peoples, the state of Canada and Canadian society. Topics include political activism, constitutional reform and recognition, policy, treaties and land claims.

Note: Credit will be granted for only one of IS 201, IS 200, IS 200A, IS 200B.

Recommendation(s): IS 101 is recommended prior to IS 201.

IS 291 Units: 1.5 Hours: 3-0-0
Topics in Indigenous Studies
Note: May be taken more than once in different topics with permission of the program.

Prerequisite(s):
• Minimum second-year standing or permission of the program.

Recommendation(s): IS 101 or IS 201 recommended prior to IS 291.

IS 301 Units: 1.5 Hours: 3-0-0
Critical Indigenous Theory
Introduces students to central theoretical concepts in the field of Indigenous Studies from a variety of Indigenous perspectives. Important disciplinary questions will be explored, including colonialism, whiteness, sexuality and gender, sovereignty, self-determination, recognition, reconciliation, decolonization and resurgence. Focuses on Indigenous-centered philosophies and theories that are culturally innovative, relevant and transformative.

Prerequisite(s):
• One of IS 101, IS 200, IS 200A, IS 200B, IS 201; and
• minimum second-year standing, or permission of the program.

IS 310A Units: 1.5 Hours: 3-0-0
Formerly: IS 310, IS 220
LE,NONET Preparation Seminar
Introduces Indigenous (First Nations, Metis, Inuit, non-status) students to knowledge and skills necessary for working with Indigenous communities and organizations, or with campus-based academic researchers, through a Research Apprenticeship (IS 320) or Community Internship (IS 321). Provides an introduction to western and Indigenous research methodologies.

Note: Credit will be granted for only one of IS 310A, IS 220, IS 310, IS 310B.

Prerequisite(s):
• Minimum second-year standing, and
• permission of the program.

Recommendation(s): One of IS 101, IS 200A, CYC 230, GNOR 203, POLI 263, WS 207 recommended prior to IS 310A.

IS 310B Units: 1.5 Hours: 3-0-0
Major Preparation Seminar
Introduces students to knowledge and skills necessary for working with Indigenous communities and organizations. Introduces western and Indigenous research methodologies.

Note: Credit will be granted for only one of IS 310B, IS 220, IS 310, IS 310A.

Prerequisite(s):
• IS 101; and
• minimum second-year standing; or
• permission of the program.

IS 320 Units: 1.5 Hours: 3-0-0
LE,NONET Research Apprenticeship
Practical experience within a university research setting. In consultation with the Research Apprenticeship Coordinator, students identify an area of research interest and undertake a minimum of 120 hours of research under the supervision of a faculty member from any department and submit a final project report.

Prerequisite(s):
• IS 101; and
• permission of the program.

IS 321 Units: 1.5 Hours: 3-0-0
LE,NONET Community Internship
An introduction to practical experience within an Indigenous community or organization setting. In consultation with the Community Internship Coordinator, students identify an area of interest and undertake 120 hours of work under the supervision of a community adviser from an Indigenous community or organization.

Prerequisite(s):
• Minimum grade of B+ (77%) in one of IS 220, IS 310, IS 310A, IS 310B; and
• permission of the program.

IS 330 Units: 1.5 Hours: 3-0-0
Methods, Ethics, Protocols
Provides students with a comprehensive examination of critical research methods and ethics. Considers culturally appropriate research approaches, principles, ethics, methods and methodologies in conducting research that concerns Indigenous peoples. Topics include research ethics and protocols, community-based research practices, oral traditions, anti-oppressive research practices, Indigenous ways and relational accountability.

Prerequisite(s):
• One of IS 200, IS 200B, IS 201; and
• minimum second-year standing; or
• permission of the program.

IS 391A Units: 1.5 Hours: 3-0-0
Topics in Arts, Literatures and Languages
Note: May be taken more than once for credit in different topics with permission of the program.

Prerequisite(s):
• Minimum third year standing; or
• permission of the program.

Recommendation(s): minimum 1.5 units of IS courses.

IS 391B Units: 1.5 Hours: 3-0-0
Topics in Histories, Politics, Laws and Lands
Note: May be taken more than once for credit in different topics with permission of the program.

Prerequisite(s):
• Minimum third year standing; or
• permission of the program.

Recommendation(s): minimum 1.5 units of IS courses.

IS 391C Units: 1.5 Hours: 3-0-0
Topics in Indigenous Education, Health and Healing
Note: May be taken more than once for credit in different topics with permission of the program.

Prerequisite(s):
• Minimum third year standing; or
• permission of the program.

Recommendation(s): minimum 1.5 units of IS courses.

IS 391D Units: 1.5 Hours: 3-0-0
Topics in Community and Land-Based Learning
Note: May be taken more than once for credit in different topics with permission of the program.

Prerequisite(s):
• Minimum third year standing; or
• permission of the program.

Recommendation(s): minimum 1.5 units of IS courses.

IS 400 Units: 1.5 Hours: 3-0-0
Research Seminar in Indigenous Studies
An interdisciplinary investigation of a selected research topic.

Note: May be taken more than once for credit in different topics with permission of the program to a maximum of 3 units.

Prerequisite(s):
• One of IS 200, IS 200B, IS 201; or
• Permission of the program.
IS 450
Indigenous Studies in the Field
The application of central theoretical concepts in Indigenous Studies to field-based practice. Students will have the opportunity to learn about traditional Indigenous teachings and practices through community- and land-based opportunities.
Prerequisite(s):
• One of IS 310, IS 310A or IS 310B; and
• minimum third-year standing; and
• declared Major in Indigenous Studies.
Recommendation(s): IS 301 and IS 350 prior to IS 450

IS 490
Directed Studies
Students wishing to pursue a course of directed reading should, together with a faculty member willing to supervise such a course, formulate a proposal describing both the content of the course and a suitable means of evaluating the student’s work. The proposal must then receive the approval of the Director of the Program.
Note: May be taken more than once for credit in different topics with permission of the program.
Prerequisite(s):
• IS 350; and
• declared Major in Indigenous Studies; or
• permission of the program.

IS 490A
Seminar in Arts, Literatures and Languages
Note: May be taken more than once for credit in different topics with permission of the program.
Prerequisite(s):
• IS 101 or IS 201; and
• minimum third-year standing; or
• permission of the program.

IS 490B
Seminar in Histories, Politics, Laws and Lands
Note: May be taken more than once for credit in different topics with permission of the program.
Prerequisite(s):
• IS 101 or IS 201; and
• minimum third-year standing; or
• permission of the program.

IS 490C
Seminar in Education, Health and Healing
Note: May be taken more than once for credit in different topics with permission of the program.
Prerequisite(s):
• IS 101 or IS 201; and
• minimum third-year standing; or
• permission of the program.

IS 490D
Seminar in Community and Land-Based Learning
Note: May be taken more than once for credit in different topics with permission of the program.
Prerequisite(s):
• IS 101 or IS 201; and
• minimum third-year standing; or
• permission of the program.

ISP
Intercultural Studies
Diploma in Intercultural Studies and Practice
Interdisciplinary Programs

ISP 200
Units: 1.5
Hours: 3-0-0
Introduction to Intercultural Studies
An interdisciplinary exploration of theory and practice in the field of intercultural studies. Focuses on understanding the application of intercultural concepts and theories to effect social change. Topics include cultural identity, diversity and inclusion and the development of intercultural relations.

ISP 400
Units: 1.5 or 3.0
Hours: 3-0-0
Practicum in Intercultural Studies and Practice
Focuses on an area of professional interest and provides an opportunity to consider intercultural principles and issues in a practical setting. Placements are arranged through the program office with an approved institution or organization. A 1.5 unit practicum consists of at least 50 hours of activity; a 3.0 unit practicum involves a minimum of 100 hours.
Notes:
• Credit will be granted for only one of ISP 400, IET 400.
• May be taken more than once for credit to a maximum of 3 units.
Grading: INP, COM, N, F.

ISP 410
Units: 1.5 or 3.0
Hours: 3-0-0
Final Project in Intercultural Studies and Practice
Provides an opportunity to demonstrate knowledge of both theory and practice in a selected area of intercultural studies.
Note: Credit will be granted for only one of ISP 410, IET 410.
Grading: INP, COM, N, F.

IS 420
Units: 1.5
Hours: 3-0-0
Topics in Intercultural Studies and Practice
Selected major topics and issues in intercultural studies and practice.
Notes:
• Credit will be granted for only one of ISP 420, IET 420.
• May be taken more than once for credit to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; or
• admission to Diploma program in Intercultural Studies and Practice.

ISP 430
Units: 1.5
Hours: 3-0-0
Facilitating Intercultural Relationships
Develops a range of interpersonal and organizational skills that build positive intercultural relationships and strengthen communication. Focuses on strategies such as equity policy development, analysis of social justice issues, promotion of anti-racism, facilitation meetings and workshops, dispute resolution, sensitivity building, and advocacy and management of change in intercultural settings.
Note: Credit will be granted for only one of ISP 430, IET 430.

ITAL
Italian
Department of Hispanic and Italian Studies
Faculty of Humanities
Native speakers of Italian may not obtain credit for 100- or 200-level courses. A native speaker is defined in this context as a person who has spoken Italian since childhood and/or has received sufficient instruction in the language to be literate in it. A near-native speaker is defined as a person who speaks, writes and understands Italian with few errors and only the occasional non-patterned mistake. The department will assign students with some knowledge of Italian to the appropriate level.

ITAL 100A
Units: 1.5
Hours: 3-0-0
Beginners’ Italian I
Exploration of the language and culture of Italy. Acquisition of basic skills of pronunciation, reading and writing. Instruction in essential points of grammar, basic syntax and vocabulary for daily interaction.
Notes:
• Credit will be granted for only one of ITAL 100A, ITAL 100, ITAL 149.
• Priority is given to students with first- or second-year standing.

ITAL 100B
Units: 1.5
Hours: 3-0-0
Beginners’ Italian II
Exploration of the language and culture of Italy. Further acquisition of basic skills of pronunciation, reading and writing. Continued instruction in essential points of grammar, basic syntax and vocabulary for daily interaction.
Notes:
• Credit will be granted for only one of ITAL 100B, ITAL 100, ITAL 149.
Prerequisite(s):
• ITAL 100A; or
• permission of the department.

ITAL 149
Units: 3.0
Hours: 6-0-0
Beginners’ Italian
Exploration of the language and culture of Italy, equivalent to ITAL 100A and 100B. Acquisition of basic skills of pronunciation, reading and writing. Instruction in essential points of grammar, basic syntax and vocabulary for daily interaction.
Note: Credit will be granted for only one of ITAL 149, ITAL 100A, ITAL 100B.

ITAL 150
Units: 1.5
Hours: 3-0-0
Also: SPAN 150
Famous and Infamous Hispanic and Italian Figures (in English)
Introduction to the culture of the Hispanic and Italian world focusing on a limited selection of key political, artistic and/or literary figures. May include figures such as M道教tezuma, Christopher Columbus, Leonardo da Vinci, Lucrezia Borgia, Mano Montessori, Benito Mussolini, Frida Kahlo, Evita Perón, La Pasionaria, Fidel Castro, or Umberto Eco.
Note: Credit will be granted for only one of ITAL 150, ITAL 209, SPAN 150.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
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<tr>
<td>ITAL 204</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Experiential Learning</td>
</tr>
<tr>
<td>ITAL 250A</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Review of Grammar and Conversation I</td>
</tr>
<tr>
<td>ITAL 250B</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Review of Grammar and Conversation II</td>
</tr>
<tr>
<td>ITAL 265</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Introductory Written Italian</td>
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<tr>
<td>ITAL 300</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Italian for Reading Knowledge</td>
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<tr>
<td>ITAL 304</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Rome, the Eternal City (in English)</td>
</tr>
<tr>
<td>ITAL 305</td>
<td>1.5</td>
<td>3-0-0</td>
<td>A Taste of Italy, Food as Culture (in English)</td>
</tr>
<tr>
<td>ITAL 306</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Italian Culture (in English)</td>
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<tr>
<td>ITAL 308</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Travels to Bell’Italia (in English)</td>
</tr>
<tr>
<td>ITAL 350</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Advanced Italian Grammar</td>
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<tr>
<td>ITAL 351</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Advanced Italian Language</td>
</tr>
<tr>
<td>ITAL 373</td>
<td>1.5</td>
<td>3-0-0</td>
<td>The Birth of the Renaissance (in English)</td>
</tr>
<tr>
<td>ITAL 378</td>
<td>1.5</td>
<td>3-0-0</td>
<td>From Mussolini to Berlusconi and Beyond (in English)</td>
</tr>
<tr>
<td>ITAL 379</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Female Beauty in Italian Culture (in English)</td>
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<tr>
<td>ITAL 401</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Topics in Italian Culture (in English)</td>
</tr>
<tr>
<td>ITAL 470</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Dante’s Divine Comedy (in English)</td>
</tr>
<tr>
<td>ITAL 472A</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Boccaccio’s Decameron (in English)</td>
</tr>
</tbody>
</table>
ITAL 472B  
Units: 1.5  
Hours: 3-0-0  
Francis Petrarch: His Life as Literature (in English)  
Considers the fullness of Francis Petrarch, first modern man of love poetry and letters, his friendships and enduring obsession for Laura, highlighting his time which spanned much of the 14th century. The 366 lyrics of the Canzoniere are the constant text, along with Petrarch’s correspondence in Familiar Matters and Of Riper Years, a reflection over some 40 years of minute detail of his life and thought.  
Note: Credit will be granted for only one of ITAL 472B, ITAL 472.  
Prerequisite(s): Minimum second-year standing.

ITAL 478  
Units: 1.5  
Hours: 3-0-0  
Topics in Modern Italian Literature (in English)  
Major literary works of 20th century Italy. Authors to be studied may include Tozzi, Svevo, Prandelli, Pavese, Moravia and Maraini.  
Notes:  
• Credit will be granted for only one of ITAL 478, ITAL 370C  
• May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.  
Prerequisite(s): Minimum second-year standing.

ITAL 479A  
Units: 1.5  
Hours: 3-0-0  
Women in the Hispanic and Italian World (in English)  
A study of major women authors, characters and themes relevant to women’s issues in Hispanic and Italian literature.  
Notes:  
• Credit will be granted for only one of ITAL 479A, SPAN 479A (if taken in the same topic).  
• May be taken more than once for credit in different topics to a maximum of 3 units.  
Prerequisite(s): Minimum second-year standing.

ITAL 485  
Units: 1.5  
Hours: 3-0-0  
Topics in Italian Film (in English)  
Introduction to major accomplishments in Italian film, from the start of the talkies during Fascist times to contemporary cinema with emphasis on directors such as De Sica, Rossellini, Fellini and Wettmüller.  
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.  
Prerequisite(s): Minimum second-year standing.

ITAL 495  
Units: 1.5 or 3.0  
Hours: 3-0-0  
Directed Reading Course  
A specified reading project for fourth-year students to be determined by the student and the instructor, and the Chair of the department; written assignments will be required.  
Note: May be taken more than once for credit in different topics with permission of the department.

LAS 478  
Units: 1.5  
Hours: 3-0-0  
Latin American Studies Program  
Faculty of Humanities  
The following courses are open to all students: no knowledge of Spanish is required.

LAS 100  
Units: 1.5  
Hours: 3-0-0  
Introduction to Latin American Studies  
Considers Latin America’s cultural and geographic diversity by exploring each of its regions. Discusses some of the key issues currently confronting Latin Americans.

LAS 310  
Units: 1.5  
Hours: 3-0-0  
Major Issues in Latin American Studies  
Explores major issues of current concern to Latin Americans and how they have addressed them in the past. Issues include the impact of modernization on biodiversity and economic disparity, democratization, and cultural distinctiveness in the era of globalization.

LAS 320  
Units: 1.5  
Experiential Learning  
Students present a portfolio, in a form approved in advance, based on the experience of participating in an academic and/or community outreach program in Latin America for a period of no less than one month.  
Prerequisite(s): Permission of the program.  
Grading: COM, N, F.

LAS 400  
Units: 1.5  
Hours: 3-0-0  
Special Topics in Latin American Studies (in English)  
An interdisciplinary perspective on Latin America focusing on a particular topic. Students have the opportunity to pursue a related interest. Readings, discussions and work submitted will be in English. Topics may include community empowerment; gender; nation, ethnicity and identity.  
Notes:  
• Credit will be granted for only one of LAS 400, LAS 300 (if taken in the same topic).  
• May be taken more than once for credit in different topics.  
Prerequisite(s): Minimum second-year standing.

LAS 495  
Units: 1.5 or 3.0  
Hours: 3-0-0  
Directed Reading  
A specified reading project to be determined by the student, the instructor and the Director of the program. Written assignments will be required.  
Note: May be taken more than once for credit in different topics.  
Prerequisite(s): Declared Honours or Major in Latin American Studies.

LAS 499  
Units: 3.0  
Honours Graduating Essay  
Directed readings and research for Honours students conducive to writing a research essay of 10,000 to 12,000 words in English or Spanish. This essay can be an expansion of the essay written for LAS 300.
LATI 301 - LAW 105

LATI 301  Units: 1.5  Hours: 3-0-0

Vergil
Selected readings in Latin from one or more of Vergil’s Eclogues, Georgics and Aeneid.

Notes:
- Credit will be granted for only one of LATI 301, LATI 390A, LATI 390B.
- May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s):
- LATI 202; or
- permission of the department.

LATI 306  Units: 1.5  Hours: 3-0-0

Formerly: LATI 410

Horace
Readings from one or more of Horace’s Epodes, Odes and Epistles.

Notes:
- Credit will be granted for only one of LATI 306, LATI 410.
- May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s):
- LATI 202; or
- permission of the department.

LATI 307  Units: 1.5  Hours: 3-0-0

Roman Historians
Selected readings from one or more Roman historians such as Sallust, Livy and Tacitus.

Notes:
- Credit will be granted for only one of LATI 307, LATI 407 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s):
- LATI 202; or
- permission of the department.

LATI 308  Units: 1.5  Hours: 3-0-0

Cicero
Readings in Latin from the writings of one of Rome’s major intellectual figures and a participant in the political struggles of the late Republic. Texts may include Cicero’s orations, letters, and philosophical works.

Prerequisite(s):
- LATI 202; or
- permission of the department.

LATI 309  Units: 1.5  Hours: 3-0-0

Ovid
Readings from Ovid’s Metamorphoses or other poems.

Prerequisite(s):
- LATI 202; or
- permission of the department.

LATI 310  Units: 1.5  Hours: 3-0-0

Roman Love Poetry
Readings may be taken from some or all of the following: Catullus, Propertius, Tibullus, Ovid’s Amores.

Note: Credit will be granted for only one of LATI 310, LATI 401.

Prerequisite(s):
- LATI 202; or
- permission of the department.
LAW 105I  Units: 2.5-3.0  
Transsystemic Contracts
Examines the circumstances under which the common law and law from selected Indigenous legal orders give force to voluntary obligations between parties. Canvas the general principles of contract law from Canadian and Indigenous case law and statutes. Focuses on contract formation, interpretation, capacity to contract, and remedies.

Notes:
- Credit will be granted for only one of LAW 105I, LAW 105, LAW 108A.
- Full year course: 67.5 - 75 hours

Prerequisite(s): Admission to the JD/JID Program.

LAW 106  Units: 1.0
The Legal Process
Provides first-year students with a transactional overview of their new discipline in its totality. Foregrounds the processes and pragmatics of decision making throughout the major institutions of the legal system, understood in their changing historical, social and jurisprudential contexts.

Notes:
- Credit will be granted for only one of LAW 106, LAW 112I.
- Full year course: 30 hours.

Grading: COM, N, F.

LAW 107  Units: 2.0
Formerly: LAW 108B
Property
Examines the concept of property, legally categorized as real, personal and aboriginal in the context of common law and equity inherited from England and (for aboriginal property) section 35 of the Constitution Act, 1982. Considers selected features of provincial legislation pertaining to non-aboriginal property. Tangible and intangible interests may be included with respect to both real and personal property, including doctrine of estates (present and future), bailment, finders and gifts.

Notes:
- Credit will be granted for only one of LAW 107, LAW 107I, LAW 108B.
- Full year course: 60 hours.

LAW 107I  Units: 2.5-3.5
Transsystemic Property
Examines established Canadian doctrine and selected comparative Indigenous land and property law, as well as emerging fields of property law. Considers the legal regulation of relationships among persons in which they acquire, use, and transfer resources. Canvas the nature of property, kinds of property, the concept of possession, aboriginal title, shared ownership, and the doctrine of estates and conditional transfers.

Notes:
- Credit will be granted for only one of LAW 107, LAW 107I, LAW 108B.
- Full year course: 67.5 to 82.5 hours

Prerequisite(s): Admission to the JD/JID Program.

LAW 109  Units: 2.0
Formerly: LAW 108C
Torts
Examines legal principles that govern the ascription of civil liability for interference with legally protected interests of others. Canvas the protection of bodily security, emotional and psychological well-being, economic and proprietary interests through specific causes of actions such as trespass, negligence, liability of public authorities, vicarious liability and nuisance.

Notes:
- Credit will be granted for only one of LAW 109, LAW 108C, LAW 109I.
- Full year course: 60 hours.

LAW 109I  Units: 2.5-3.0
Transsystemic Torts
Examines disputes between individuals that arise when acts or omissions of one person cause injury or property loss in either Canadian and Indigenous societies. Canvas negligence, damage to property, harm to economic interests, nuisance, and intentional injuries to person(s) or property, or to personal dignity and reputation. Considers Canadian law and selected analogous Indigenous law on social value, deterrence, loss distribution, economic efficiency, and corporate and governmental responsibility.

Notes:
- Credit will be granted for only one of LAW 109I, LAW 108C, LAW 109.
- Full year course: 67.5 - 75 hours.

Prerequisite(s): Admission to the JD/JID Program.

LAW 110  Units: 1.5
Legal Research and Writing
Examines the foundational skills of legal analysis and reasoning, legal writing, legal research and legal oral argument. Includes written and oral presentation assignments based on fact patterns and requires writing legal memoranda. Students research primary and secondary sources of law in print and electronic formats. Adopts a problem-based learning methodology using numerous in-class exercises.

Notes:
- Credit will be granted for only one of LAW 110, LAW 112I.
- Full year course: 45 hours.

LAW 112I  Units: 3.0
Transsystemic Legal Processes, Research, Writing
Provides a multijuridical perspective on the processes of decision making throughout Indigenous and Canadian legal systems and their major institutions, and the function of substantive and procedural law within them. Examines legal research methods for working with the Canadian legal system and with Indigenous legal orders. Develops oral and written legal communication skills, and effective formulation and presentation of well-reasoned and accurate legal argument, analysis, and advice or submissions.

Notes:
- Not open for credit to students with credit in LAW 106 and LAW 110.
- Full year course: 75 hours.

Prerequisite(s): Admission to the JD/JID Program.
LAW 304 - Criminal Law Term

Provides students with a comprehensive understanding of the criminal process from its inception through the trial process and the corrections system. An intensive immersion program which will consider criminal procedure, sentencing and corrections, substantive criminal law, trial process and the law of evidence. Through a flexibly-designed program, students will consider all the major issues confronting the administration of criminal law.

Note: Students must normally take LAW 302 Criminal Law, LAW 303 Criminal Procedure, LAW 305 Sentencing in the same term as LAW 304. Part-time students are required to consult with the professor before registration in LAW 304 in order to make necessary accommodation arrangements and they are encouraged to complete two of the following three courses: LAW 302 Criminal Law II and LAW 303 Criminal Procedure and LAW 305 Sentencing before enrolment in LAW 304.

Prerequisite(s): LAW 309.

Corequisite(s): All of LAW 302, LAW 303, LAW 305.

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LAW 305 - Sentencing: Law, Theory and Practice

Introduces students to the law, theory and practices of sentencing. Provides a brief overview of the historical development of punishment and sentencing, followed by an analysis of the theoretical basis for understanding the aims, purposes and justifications for punishment. Involves a detailed examination of the various sentencing options and the basic principles and rules of sentencing, including the rules governing sentencing hearings.

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LAW 307B - Civil Procedure with Drafting

Examines civil procedure and drafting with reference to the Supreme Court of British Columbia, Supreme Court Rules. Introduces the structure of a civil action and issues for consideration throughout the development of a civil proceeding. Topics include the expense of litigation, jurisdiction, initial process, pleadings, amendment of pleadings, joinder, the discovery process, disposition without trial, alternatives to adjudication, professional responsibility and access to justice.

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LAW 309 - The Law of Evidence

Examines objective structure and content of law governing proof of facts in civil and criminal trials, and before administrative tribunals. Critically examines rules of evidence respecting burdens of proof and presumptions, competence and compellability of witnesses, corroboration, hearsay, character, and opinion evidence in light of objectives of the legal process.

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LAW 310 - Restitution

Acquaints the student with the existence and utility of the body of doctrine based upon the principle of preventing "unjust enrichment" and focuses upon the four major grounds upon which a right to restitutionary relief arises: (1) benefits conferred by mistake; (2) benefits conferred in the course of an ineffective transaction; (3) benefits conferred as a result of wrongdoing; and (4) benefits conferred in a non-officious context.

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LAW 311 - Regulation of Financial Institutions

The role played by Canadian banks, insurance companies, and trust and loan companies as financial intermediaries and the need for a supervisory framework to protect both the soundness and safety of these institutions and the security of their customers. Topics will include jurisdictional issues, foreign banking, consumer insurance, institutional failures, and multi-national financial service agreements. Focus will be concentrated upon the governing legislation, current financial statements, and contemporary issues presented in the business press.

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LAW 312 - Debtor and Creditor Relations

Examines the remedies available to the unsecured creditor for the collection of debts, and the protections afforded to debtors. Looks at prejudgment remedies, the garnishment of wages and other debts, the enforcement of money judgments against real and personal property, and fraudulent conveyances and fraudulent preferences. Examines the regulation of collection agencies and credit companies, as well as consumer bankruptcy and insolvency.

Prerequisite(s): One of LAW 105, LAW 105I, LAW 108A.

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LAW 313 - Securities Regulation

An overview of the law and policy aspects of securities regulation including the initial distribution of securities, the regulation of secondary market trading, takeover and issuer bid regulation, and the regulation of securities market intermediaries.

Prerequisite(s): One of LAW 105, LAW 105I, LAW 108A.

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LAW 314 - Commercial and Consumer Law

The commercial and consumer law relating to the sale of goods and services, including an examination of the Sale of Goods Act and the Business Practices and Consumer Protection Act. Topics includeSale of Goods (1.0 to 1.5 units).

Prerequisite(s): One of LAW 105, LAW 105I, LAW 108A.

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LAW 315 - Business Associations

Conceptual overview of business organizations including legal and fiduciary concepts in commercial relationships. Analyzes and discusses various legal forms for carrying on business sectors, and for the economy and society of Canada. Examines business development in an Indigenous legal context. Canvasses practical and meaningful strategies to dismantle systemic barriers to create economic benefits for Aboriginal people and communities, for the financial and business sectors, and for the economy and society of Canada.

Prerequisite(s): One of LAW 105, LAW 105I, LAW 108A.

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LAW 316 - Secured Transactions and Negotiable Instruments

A brief history of chattel security law, focuses upon the law of secured transactions in personal property at both the consumer level and at the corporate level under the Personal Property Security Act. Introduces the student to Bank Act security and to the law of negotiable instruments.

Prerequisite(s): One of LAW 105, LAW 105I, LAW 108A.

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LAW 317 - Real Property Transactions

Adopts a transactional perspective and analyzes the development of a real property transaction from its inception to post-completion problems. Specific reference to listing the property for sale and the responsibilities and obligations of the agent under the Real Estate Act, specific matters relating to the interim agreement, financing of the purchase and assessment of title, as well as preparation of the file for closing. Brief consideration will be given to condominium law and landlord and tenant relations.

Prerequisite(s): One of LAW 105, LAW 105I, LAW 108A.

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LAW 318 - Remedies

Highlights the interaction between the various substantive areas of private law: torts, property, contract and restitution. Additionally, the interaction between the common law and equity systems will be developed conceptually and historically. Topics include questions regarding damages, specific remedies, restitution, as well as analysis for alternative methods of remedial action through compensation schemes.

Prerequisite(s): One of LAW 105, LAW 105I, LAW 108A.

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LAW 319 - Trusts

The trust as a mode of disposition of property for the benefit of successor or single beneficiaries, and the contrast is made with absolute dispositions. Comparison is made with other concepts of obligation and property holding. The creation, administration, variation and termination of express trusts are examined, and also the theory and applicability of resulting and constructive trusts.

Prerequisite(s): One of LAW 105, LAW 105I, LAW 108A; and One of LAW 108C, LAW 109, LAW 109I.
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<tr>
<th>Course Code</th>
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<th>Hours</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>LAW 320</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Wills, Estates &amp; Succession Planning. Explores wills and intestate succession, variation of wills, and planning for legal incapacity. Examines common law and statutory provisions relating to wills, and intestate estates. Explores considerations affecting disposition of assets both before and after death, and planning for financial, health and personal care during life.</td>
</tr>
<tr>
<td>LAW 321</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Competition Law. Examines main areas of competition law including conspiracy to lessen competition, merger notification requirements, abuse of dominant position, vertical price restraints (such as predatory pricing, price discrimination, and resale price maintenance) and non-price vertical restraints (such as refusal to deal, tied selling, exclusive dealing, and market restraints) and misleading advertising. Prerequisite(s): One of LAW 105, LAW 105I, LAW 108A, and One of LAW 108C, LAW 109, LAW 109.</td>
</tr>
<tr>
<td>LAW 322</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Family Law. The institution of the family, both in its social and legal contexts. Specific reference will be had to law relating to marriage, divorce, custody, matrimonial law and the role of the lawyer in the resolution of family problems. Ideally suited to interdisciplinary team teaching in order that the course may helpfully illustrate the impact of legal decision making on the social unit of the family. Prerequisite(s): One of LAW 105, LAW 105I, LAW 108A.</td>
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<tr>
<td>LAW 323</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Refugee Law. The interplay between refugee law and human rights law; the nature of persecution; the meaning of &quot;torture&quot;, gender-based claims; the claims of military deserters and conscientious objectors, internal flight alternative; the exclusion of human rights abusers and criminals from refugee protection; eligibility to make a refugee claim; assessing credibility of refugee claimants; proceedings before the Refugee Protection Division; Pre-Removal Risk Assessments; applications for judicial review; comparative approaches to refugee protection.</td>
</tr>
<tr>
<td>LAW 324</td>
<td>1.0 or 1.5</td>
<td>2-0-0 or 3-0-0</td>
<td>Children and the Law. Considers the impact of law and legal institutions on children and their relations in society, including such questions as adoption, affiliation, child protection, juvenile delinquency, custody and access. Attempts to bring the knowledge and expertise of specific, related disciplines to bear upon the development of law and the legal institutions in this area.</td>
</tr>
<tr>
<td>LAW 325</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Access to Justice. Examines the fact of diminishing access to justice and its implications for the public, professionals, the justice system and society as a whole. Provides a theoretical framework and practical ideas to help students recognize, understand and respond to access issues. Topics include: the causes, scale and consequences of unmet legal needs; strategies and initiatives to enhance access; and how access issues are forcing the justice system to rethink professional roles, responsibilities and ethics. Note: Credit will be granted for only one LAW 325, LAW 343 (if taken in the same topic), DR 510 (if taken in the same topic).</td>
</tr>
<tr>
<td>LAW 326A</td>
<td>1.5 or 2.0</td>
<td>3-0-0 or 4-0-0</td>
<td>The Individual Employment Relationship. The law relating to the individual employment relationship. Covers the legal background and contemporary context of employment, the formation of the employment relationship, the rights and obligations of employers and employees under the contract of employment and protective legislation, the termination of employment and enforcement mechanisms. Although British Columbia is the focus, there is a comparative dimension. Prerequisite(s): One of LAW 105, LAW 105I, LAW 108A.</td>
</tr>
<tr>
<td>LAW 326B</td>
<td>1.5 or 2.0</td>
<td>3-0-0 or 4-0-0</td>
<td>Labour Law. An introduction to labour law focusing on the decisions of courts, arbitrators and administrators in a collective bargaining setting based on legislation. Collective bargaining for public servants and essential services employees under specific legislative regimes. The tension between industrial pluralism and human rights in collective bargaining will be examined. Note: Credit will be granted for only one LAW 326B, LAW 326.</td>
</tr>
<tr>
<td>LAW 327</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Jurisprudence. A wide variety of topics may be considered in order to develop a theoretical framework for the purpose and function of law in society. Various schools of jurisprudential thought will be analyzed, including the Natural Law school, the Positive school, Pure Theory school, the Sociological school, the American and Scandinavian Realist schools as well as Historical and Anthropological Jurisprudence.</td>
</tr>
<tr>
<td>LAW 328</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Green Legal Theory. Develops critical theoretical basis for extending the understanding of social/natural regulation beyond mainstream environmental law and policy; individual research, presentation and contribution to a developing new ‘naturalist’ understanding of law in its political economy and cultural context. Note: Credit will be granted for only one LAW 328, ES 419, ES 450.</td>
</tr>
<tr>
<td>LAW 329</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Environmental Law. This is a foundational course for students interested in environmental law and policy. Students will acquire an overview of recent developments and debates within this area. Topics addressed include federalism and the environment, common law rights and remedies, public participation and judicial review, market mechanisms for environmental protection, endangered species, and trade and the environment. A key focus concerns the extent to which environmental law reflects, or fails to reflect, evolving social and other values.</td>
</tr>
<tr>
<td>LAW 330</td>
<td>1.5</td>
<td>3-0-0</td>
<td>International Law. Public International Law is concerned with the legal relations of states and the individuals who compose them. Explores the way in which sovereign powers choose to govern their interrelationships and analyzes problems which confront them. Topics will include an examination of the international legal system, modes of international creation and law enforcement as well as the process of international adjudication.</td>
</tr>
<tr>
<td>LAW 331</td>
<td>1.0 or 1.5</td>
<td>2-0-0 or 3-0-0</td>
<td>International Ocean Law. Introduction to UN Convention on the Law of the Sea as a “constitution of the seas.” Canadian perspective of how States regulate, enforce and manage uses of the oceans, including vessel navigation, marine resource exploitation and conservation. Contemporary topics include piracy, high seas drift net fishing, the Northwest Passage and the “Line of Death.”</td>
</tr>
<tr>
<td>LAW 332</td>
<td>1.5</td>
<td>3-0-0</td>
<td>International Trade Law. Explores the major legal and policy aspects of the international trade regime in which the Canadian economy operates. Emphasis is upon core principles of international economic law applicable to the regulation of international trade. Particular attention is paid to the World Trade Organization and Canada’s free trade agreements.</td>
</tr>
<tr>
<td>LAW 333</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Social Welfare Law. Helps students develop an understanding of the role of law, lawyers, and the legal system in addressing the problem of economic disadvantage. Topics include the origin and development of the Canadian welfare state, case studies of the issues of work, housing and income security, and the practice of poverty law as a strategy for change.</td>
</tr>
<tr>
<td>LAW 337</td>
<td>1.0 or 1.5</td>
<td>2-0-0 or 3-0-0</td>
<td>Dispute Resolution: Theory and Practice. Examines the forms and functions of major dispute resolution processes - mediation, negotiation and adjudication. These are the processes which are critical to lawyers and other persons concerned with preventing or resolving disputes. Both court adjudication and alternative dispute resolution (ADR) will be studied from theoretical, critical and practical perspectives. Examines and develops the skills used in various dispute resolution procedures.</td>
</tr>
</tbody>
</table>
LAW 338 - LAW 352

LAW 338  Units: 1.5  Hours: 3-0-0
Médiation et Avocats
An in-depth and critical examination of the use of the mediation process to resolve a wide variety of substantive disputes involving business, family, criminal, environmental, international, and public policy issues. Provides students with an opportunity to review and evaluate contemporary perspectives on the mediation process and to develop skills that successful mediators employ in helping parties resolve their disputes. Builds on the concepts studied in LAW 337.
Prerequisite(s):
• LAW 337; or
• permission of the faculty.

LAW 339  Units: 1.5  Hours: 3-0-0
Droit Théorique des Affaires
Explores the interdisciplinary nature of legal studies, using 20th century cultural, literary and political theory to explore legal thought and practice, including trans-systemic encounters of Inuit and non-Inuit legal orders in the Canadian North. Uses stories and popular cultural texts (film, video, television) as a primary resource.

LAW 340  Units: 1.5  Hours: 3-0-0
Droits et Gouvernance des Territoires Autochtones
The major legal issues concerning Indigenous peoples (Indian, Inuit and Métis) in Canada. Explores the development of Canadian case law relative to these groups and its simultaneous preservation and dispossession of Indigenous people’s rights. Comparisons will be drawn from other countries dealing with Indigenous Rights. Examines aspects of legal pluralism, and assesses a variety of normative and political justifications for aboriginal rights.

LAW 342  Units: 1.5  Hours: 3-0-0
Immigration and Citizenship Law
The laws regulating the admission and removal of foreign nationals to and from Canada; gaining access to Canada permanently – family class, skilled workers, business classes, humanitarian classes; the various Provincial Nominee Programs and the Canada-Québec Accord; temporary admission as a visitor or student and temporary worker; the impact of NAFTA; the processes for excluding and removing foreign nationals to and from Canada; gaining access to Canada permanently - family class, skilled workers, business classes, humanitarian classes.

LAW 343  Units: 0.5-7.5  Hours: 1-0-0 to 15-0-0
Contemporary Issues in Law
Contemporary and problematic legal issues will be examined in the light of existing legal rules, social and related implications, the legal process, and possible reform.
Note: May be taken more than once for credit in different topics.

LAW 343E  Units: 0.5-7.5  Hours: 1-0-0 to 15-0-0
Topics in Experiential Learning
Provides experiential learning opportunities such as field schools, clinical placements and intensive courses that respond to contemporary legal problems.
Note: May be taken more than once for credit in different topics.
Grading: COM, N, F.

LAW 344  Units: 1.5  Hours: 3-0-0
Droit de l’Assurance
The theory and elements of the practice of insurance law, with reference to the most common forms of both first party and third party insurance: property, life and motor vehicle insurance.
Prerequisite(s): One of LAW 105, LAW 105I, LAW 108A.

LAW 345  Units: 2.0  Hours: 4-0-0
Impôt
The basic principles of income tax law including such issues as taxable income, residence income from employment, business or property, and capital gains. Deals in a general way with policy underlying certain aspects of the Income Tax Act and provides an introduction to certain specific provisions of that Act, concentrating primarily on personal income tax law.

LAW 346A  Units: 1.0 or 1.5  Hours: 2-0-0 or 3-0-0
Droit de la Gestion des Impôts: Les Corporations
Builds upon the concepts studied in Taxation (345) and is concerned primarily with the Canadian income tax treatment of Canadian corporations and their shareholders.
Note: Credit will be granted for only one of LAW 346A, LAW 346.
Prerequisite(s): LAW 315 and LAW 345.

LAW 346B  Units: 1.0 or 1.5  Hours: 2-0-0 or 3-0-0
Droit de la Gestion des Impôts: Les Nations Étrangères
Builds upon the concepts studied in Taxation (345) and is concerned primarily with the international tax system as it functions in respect of Canadian income tax treatment of non-residents (both individuals and corporations) on Canadian source income and tax treatment of foreign source income of Canadian residents. Includes the study of Canada’s tax treaties, taxation of Canadian corporations on income of foreign subsidiaries and branches, and other aspects of international taxation.
Prerequisite(s): LAW 345.

LAW 347  Units: 1.5  Hours: 3-0-0
Droit de la Propriété Intellectuelle
A study of the concept of intellectual property and the principles and policies of selected areas of intellectual property law, primarily: (a) registered trade marks and related common law provisions and (b) copyright in its categories of “literary,” “dramatic,” “musical,” and “artistic” works and with a focus upon new technologies such as photocopying, videotaping and computer programming. Includes a brief introduction to the law and policies of patents, industrial designs and confidential information. Where appropriate, attention is drawn to the interrelationship and boundary issues between the categories that together comprise the subject of intellectual property.

LAW 348  Units: 1.5  Hours: 3-0-0
Gestion de la Propriété Intellectuelle
Explores processes and framework for obtaining, retaining, assigning and licensing selected Intellectual Property Rights (IPRs) including industrial and entertainment-related IPRs. Instruction and evaluation will involve principally the completion of appropriate documentation and will include strategies for protecting, managing and marketing IPRs.
Prerequisite(s): LAW 347.

LAW 349  Units: 1.5-3.0  Hours: 3-0-0
Droit des Affaires Cliniques
Using a clinical approach, students will apply knowledge gained in LAW 315 Business Law to cases as they assist small business owners and those who are considering going into business to assess their legal requirements. By working with the Clinic Counsel and with the mentors from the Victoria Bar, students develop practical legal skills and examine the role of the legal profession in the small business environment.
Notes:
• May be taken more than once for credit with permission of the faculty to a maximum of 3 units.
• Priority will be given to students registering in the course for the first time.
Pre- or Corequisite(s): LAW 315.
Grading: COM, N, F.

LAW 350  Units: 7.5  Hours: 6-0-0
Droit Clinique
Students receive training in interviewing, counselling, negotiation, mediation, advocacy before Provincial Court and administrative tribunals, and drafting. Represent numerous clients who present with problems related to the criminal law, corrections law, family law, human rights law, and variety of civil law issues. Develop awareness of legal and social problems of economically disadvantaged, significantly ill, liberty challenged, indigenous and aged members of society.
Prerequisite(s): LAW 309.
Grading: COM, N, F.

LAW 350I  Units: 7.5
Droit et Laquébec Accord
Provides Indigenous legal practice skills through community collaboration with local lawyers, Indigenous legal experts and practitioners, leaders, and community members. Potential projects include business and economics, social justice and rights, advocacy and negotiation, legal research and drafting, and local governance demands.
Prerequisite(s): Admission to the JD/JID Program.
Grading: COM, N, F.

LAW 352  Units: 3.0-8.0
Droit de l’Assurance des Échanges Internationaux
With the permission of the Dean, or his or her designate, students may be enrolled, and the requirements for up to 8 units towards his or her JD degree at the University of Victoria.
Note: The terms and conditions of a student’s enrolment in an exchange term, the number of credits for which the student may be enrolled, and the requirements for successful completion of term are governed by the regulations adopted by the Faculty for this program.
Grading: COM, N, F.
### Course Listings

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LAW 353</strong></td>
<td>1.0-2.0</td>
<td>3-0-0</td>
<td>Environmental Law Centre Clinic An opportunity to study the theory and engage in the practice of public interest environmental lawyering in a supervised clinical setting. Students enrolled in the Clinic provide legal information and assistance to environmental NGOs, community groups and First Nations. They also develop public interest lawyering skills including advocacy through media, client counselling, and case development and management. The class meets for a weekly seminar to discuss ongoing projects and related readings, and to exercise skills. At the end of term, every student will submit for evaluation a major written product prepared for a designated clinic client. Note: May be taken more than once for credit in different topics with permission of the faculty to a maximum of 4 units. Grading: COM, N, F.</td>
</tr>
<tr>
<td><strong>LAW 354</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Forest Law and Policy Assesses the record of reform in a variety of areas (including forest tenures, practices, stumpage, cut regulation and land use planning) against the overarching metric of sustainability. A disciplinary approach is used. Considers emerging topics such as forest certification and First Nations forestry.</td>
</tr>
<tr>
<td><strong>LAW 355</strong></td>
<td>2.0</td>
<td>4-0-0</td>
<td>Legal Skills Uses materials from substantive law to examine and develop the skills of the lawyer in interviewing, counselling and negotiating. Grading: COM, N, F.</td>
</tr>
<tr>
<td><strong>LAW 356</strong></td>
<td>2.0</td>
<td>4-0-0</td>
<td>Advocacy Involves a critical analysis of the trial process including the demonstration and evaluation of various techniques of advocacy and their relationship to the law of evidence and procedure. In particular, the objectives and techniques of pretrial motions, examinations for discovery, examination and cross examination of witnesses, exhibits, and the presentation of legal argument will be considered. Prerequisite(s): LAW 309. Grading: COM, N, F.</td>
</tr>
<tr>
<td><strong>LAW 357</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Sexual Orientation and the Law Explores how the law treats gay, lesbian, bisexual, two spirited, transgendered and queer persons differently than heterosexuals either because of its substantive contents or because of its applications in practice by courts and tribunals. Legal issues will be considered in their historical, social, and political contexts. Some comparative analysis will be included. Particular topics to be considered in depth will be selected by the instructor in consultation with students.</td>
</tr>
<tr>
<td><strong>LAW 358</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Race, Ethnicity, Culture and the Law Examines the interaction between law, race and ethnicity in contemporary Canadian society employing a broad range of perspectives to analyze and debate critically the activities, policies and interactions of legal and social institutions. The continuing existence of personal and institutional racism, its effects on minority individuals and groups, and resistance to it within minority ethnic and cultural communities will also be considered. Topics include: race theory; multiculturalism and nationalism; immigration and refugee policy; intersections of race and gender, employment equity; policing and race; race and ethnicity in the administration of justice; race and the legal profession; and, First Nations justice.</td>
</tr>
<tr>
<td><strong>LAW 359</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Civil Liberties and the Charter Examines the relationship between government and the individual. The major emphasis will be upon the development and protection of civil liberties and human rights in Canada. Reference may also be made to Human Rights Legislation and International Agreements.</td>
</tr>
<tr>
<td><strong>LAW 360</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Legal Ethics and Professionalism Examines ethical and professional dimensions of the practice of law in Canada and other jurisdictions including the meanings of ethics and the nature of professionalism. Covers the knowledge and skills needed to identify and address ethical dilemmas arising in a legal context. Considers topics such as the nature and scope of a lawyer’s duties; admission to, governance of, and critical issues affecting the legal profession; critical thinking about legal ethics and professionalism. Grading: COM, N, F.</td>
</tr>
<tr>
<td><strong>LAW 361</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Historical Foundations of the Common Law The development of English legal systems have had a profound impact on Canada as well. Beginning with 11th century European developments, considers a number of topics, such as Anglo-Saxon England and the Norman Conquest, the development of common law and equity, criminal law and 19th century developments, ending with some analysis of the “reception” of English law in the colonies. Prerequisite(s): • One of LAW 105, LAW 105I, LAW 108A; and • One of LAW 108C, LAW 109, LAW 109I.</td>
</tr>
<tr>
<td><strong>LAW 362</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Conflict of Laws Seeks to illustrate problems arising out of the interaction of laws and legal systems. Such important questions as choice of law, recognition of foreign judgments, doctrines of domicile and renvoi will be investigated in order to develop an understanding of the choices and values inherent in decision making in this area.</td>
</tr>
<tr>
<td><strong>LAW 363</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Law, Governance and Development Examines the relationship between law, governance and development including understandings of legal reform as a means to development, and legal reform as constitutive of development. Addresses this relationship from an international perspective with an emphasis on developing and post-colonial societies.</td>
</tr>
<tr>
<td><strong>LAW 364</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Law, Governance and Development Examines the relationship between law, governance and development including understandings of legal reform as a means to development, and legal reform as constitutive of development. Addresses this relationship from an international perspective with an emphasis on developing and post-colonial societies.</td>
</tr>
<tr>
<td><strong>LAW 365</strong></td>
<td>1.0-4.0</td>
<td>2-0-0</td>
<td>Legal Mooting A student may be awarded credit in the second and third years of their program to a maximum of 2 units in each year and 4 units in the student’s entire program, for supervised participation in mooting programs approved by the Dean. Students cannot participate in more than one moot in a single academic year. Grading: COM, N, F.</td>
</tr>
<tr>
<td><strong>LAW 366</strong></td>
<td>1.0 or 1.5</td>
<td>2-0-0</td>
<td>Patent Law A study of the principles and practical implications of patent protection in Canada. Discussions will include the fundamental concepts of patentability, validity, infringement and commercial exploitation of patentable technology, ultimately leading to a focus on the Canadian patent growth area of pharmaceutical and biotechnological product and process protection. There will also be a brief comparative view of the United States' and Japanese systems in contrast to the Canadian patent system.</td>
</tr>
<tr>
<td><strong>LAW 367</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Communications Law and Policy Explores the legal and policy framework for electronic communications media that enable today's 'information age'. Focuses on the policy and regulatory frameworks for: (1) telecommunications services, including telephone, cable TV, Internet, mobile and fixed wireless and satellite services, and (2) TV and radio broadcasting and other audio-visual content services including Internet TV services. Competition, deregulation, convergence and the transition to Internet and wireless-based telecommunications and media content services are also covered.</td>
</tr>
<tr>
<td><strong>LAW 368</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Indigenous Feminist Legal Studies Takes an interdisciplinary and intersectional approach to selected legal issues concerning indigenous women in Canada and elsewhere. Critically examines a range of legal and political issues and perspectives (i.e., indigenous feminisms, indigenous feminist legal theories, citizenship, nationhood and political collectivities, governance, aboriginal rights and title, Charter rights and freedoms, human rights, Indian Act, indigenous legal traditions, and criminal justice).</td>
</tr>
<tr>
<td><strong>LAW 369</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Feminist Legal Theories Explores critiques of law and legal reasoning from several feminist perspectives. Topics include feminist critiques of liberal legal theory, anti-racist feminism and legal analysis, feminist epistemologies and legal reasoning, and feminist theories regarding women's relationships to law and to the state.</td>
</tr>
<tr>
<td><strong>LAW 370</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Law and Society in Southeast Asia Introduces, in comparative and socio-legal perspective, the laws and legal systems of SE Asia. The main emphasis is on Indonesia, Malaysia, Singapore, Thailand and Vietnam. Deals comparatively with the principal legal issues of interest in the region, namely legal sources, traditions and institutions; legal pluralism and family law; constitutional reform; and the use of law for economic development.</td>
</tr>
</tbody>
</table>
LAW 379 - LAW 388

LAW 372 Units: 1.5 Hours: 3-0-0
Also: DR 503
Public Policy, Law and Dispute Resolution
Examines a range of issues of governance and justice. Focuses on the interaction of political, legal and administrative institutions and processes as they respond to such pressures as the demand for enhanced representation, public participation and direct democracy, access to justice and alternative dispute resolution, aboriginal self-government, fiscal restraint, public accountability and ethics.
Note: Credit will be granted for only one of LAW 372, DR 503.

LAW 373 Units: 1.5 Hours: 3-0-0
Also: DR 507
International Human Rights and Dispute Resolution
Explores linkages between international human rights law, conflict analysis and dispute resolution. Participants explore literature from several disciplines including international law, history, philosophy, anthropology, political science and conflict studies. United Nations, regional and national human rights instruments and mechanisms are examined for their efficacy in human rights protection. Concerns of individuals, including women and children, non-state groups and indigenous peoples are addressed. Students develop skills in human rights analysis, advocacy and dialogue.
Note: Credit will be granted for only one of LAW 373, DR 507.

LAW 377 Units: 1.5 Hours: 3-0-0
International Arbitration
Introduces students to international arbitration, including arbitral agreements, applicable law, the enforcement of arbitral awards and arbitrations involving state parties. Particular attention is paid to investment treaty arbitration and the role international arbitration plays in the process of globalization.

LAW 378 Units: 1.5 Hours: 3-0-0
Equality, Human Rights, and Social Justice Law
Examines the role of law and of legal conceptions of equality in struggles by equity seeking groups and individuals for social justice in Canada. Topics covered include the relation of social movements to law and social change. Charter equality rights and strategic litigation, the institutional and jurisprudential frameworks of domestic human rights law, and critical theoretical debates pertaining to anti-discrimination law.

LAW 380 Units: 1.5 Hours: 3-0-0
Bioethics, Personhood and the Law
Introduction to contemporary bioethical issues and their legal dimensions. Covers medical and biotechnological debates implicating human and nonhuman life at various stages. Current and prospective legal regulation is assessed through multiple critical theoretical frameworks related to gender, disability, age, class, race, sexual identity and culture. Engages centrally with legal concepts of personhood, dignity and equality.
Note: Credit will be granted for only one of LAW 380, LAW 343 (if taken in the same topic).

LAW 381 Units: 1.5 Hours: 3-0-0
Animals, Culture and the Law
Introduction to posthumanist studies and their legal applications. Canvasses multiple theoretical approaches supporting animal advocacy and investigates their application to a number of current legal and cultural controversies regarding human-animal relations. Examines the cultural meanings of the terms "human," "animal" and "species." Links with differences such as race, gender, culture and class are explored. Current legal proposals to change animals' property status also considered.
Note: Credit will be granted for only one of LAW 381, LAW 343 (if taken in the same topic).

LAW 382 Units: 1.5 Hours: 3-0-0
Pension Law and Policy
Introduction to Canadian pension law and policy. Examines the pension system, its historical development and the regulatory schemes that govern it. Canvasses influence of demographics, the changing labour market, privatization, neo-liberalism and globalization on pension coverage and inclusion. Considers law reform and policy debates.
Note: Credit will be granted for only one of LAW 382, LAW 343 (if taken in the same topic).

LAW 383 Units: 1.5 Hours: 3-0-0
Municipal Law and Sustainability
Introduction to the principles of municipal law in Canada, including judicial review, service and regulatory powers, taxation, and public liability. Particular attention will be given to land use planning and its role in community sustainability.
Note: Credit will be granted for only one of LAW 383, LAW 343 (if taken in the same topic).

LAW 384 Units: 1.5 Hours: 3-0-0
Field Course in Environmental Law and Sustainability
Analyzes the structure of law, policy, and sustainability in a particular geographic region. Review of overlapping jurisdictional and governance systems that shape a region.
Notes:
• Credit will be granted for only one of LAW 384, LAW 343 (if taken in the same topic), ES 403.
• Undergraduate course in Law and Environmental Studies offered by the Faculty of Law and School of Environmental Studies in the Faculty of Social Sciences.

LAW 385 Units: 1.0 or 1.5 Hours: 2-0-0

Comparative Copyright Law
Analyzes copyright law and policy in the United States and Canada. Comparison is also made between "copyright" in Anglo-American common law jurisdictions and droit d'auteur ("author’s rights") in civil law jurisdictions, with France as the example. Legal theories and the relationship of both systems with "traditional knowledge" or cultural property are considered.
Note: Credit will be granted for only one of LAW 385, LAW 343 (if taken in the same topic).

LAW 386A Units: 2.0 Hours: 0-2-2
Formerly: LAW 353A
Environmental Law Centre Clinic Intensive: Legal Skills & Sustainability
Intensive public interest environmental law clinical program in which students are supervised as they assist conservation, community and First Nations clients with legal representation, advocacy services and advice. Students receive training in client interviewing and counseling, file management, professional responsibility and litigation practice, and are introduced to a variety of sustainability law topics.
Note: Credit will be granted for only one of LAW 386A, LAW 353A.
Corequisite(s): LAW 353.
Pre- or Corequisite(s): LAW 329.
Grading: COM, N, F.

LAW 386B Units: 2.0 Hours: 0-2-2
Formerly: LAW 353A
Environmental Law Centre Clinic Intensive: Problem Solving
Students receive training in negotiation, collaborative project delivery, and workshop facilitation, and undertake specialized tutorials tailored to urban and rural sustainability with a view to resolving environmental disputes. Students undertake sustained engagement with cases, including litigation, and clients.
Note: Credit will be granted for only one of LAW 386B, LAW 353A.
Corequisite(s): All of LAW 329, LAW 353, LAW 386A.
Grading: COM, N, F.

LAW 387 Units: 1.5 Hours: 3-0-0
Health Law
Explores legal issues and debates relating to healthcare from a socio-legal perspective. Considers how legal doctrine and the regulation of medical treatment and healthcare professionals impact rights, personhood and the definition of health itself. Central to attends to issues of equality, dignity and difference.
Note: Credit will be granted for only one of LAW 387, LAW 343 (if taken in the same topic).

LAW 388 Units: 1.5 Hours: 3-0-0
Advanced Legal Research and Writing
Builds upon the research and writing skills learned in the first year. Students will explore a wide range of research sources, both legal and nonlegal, including computer assisted legal research. Students will analyze various types of legal writing. The importance of context, organization and audience in legal writing will be stressed. Parts, sections or clauses of written documents will be analyzed, evaluated, criticized, edited and rewritten to improve and develop the students’ analytical and writing skills.
LAW 388A

**Indigenous Law Research, Method and Practice**

Introduces critical ways of working with Indigenous legal traditions including their conceptualization, theorization, research, practice and application. Explores challenges related to accessing, understanding and applying Indigenous legal traditions, and the work of justice and reconciliation in local and inter-societal contexts. Provides opportunity to engage with specific Indigenous laws in a respectful and supportive environment.

**Note:** Credit will be granted for only one of LAW 388A, LAW 343 (if taken as section A02 in May-Aug 2016, May-Aug 2017 or May-Aug 2018).

**Units:** 1.5

**Hours:** 3-0-0

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LAW 389

**Appeal - Review of Current Law and Law Reform**

Uvic Law’s legal journal offers students the opportunity to participate, as members of the editorial board, in the production of a legal review. Students involved are responsible for running all aspects of the journal. In addition, each student is to prepare and submit a paper for possible publication. The editorial board is chosen by a committee. Applications for editorial board membership are accepted during the spring balloting period. Despite the absence of formal prerequisites, Appeal encourages interested students in their first year to become involved with the journal through volunteer work.

**Note:** With the approval of the Dean or the Dean’s nominee: (1) a student may be given credit for this course twice to a maximum of 4 units, and (2) in exceptional circumstances the course may be taken for only 1 unit. Maximum enrolment: 10.

**Grading:** COM, N, F.

**Units:** 1.0-2.0

**Hours:** 2-0-0 to 4-0-0

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LAW 390

**Major Paper Requirement**

In order to complete the Major Research Paper requirement for the JD degree, a student must enrol in LAW 390. A student must obtain (written) permission of a full-time faculty member who has agreed to supervise the student’s Major Research Paper in the context of an existing course within the Faculty. The grade assigned to the Major Research Paper will be the grade of record for LAW 390. However, LAW 390 is a non-credit course. Credit for the Major Research Paper is given only in the context of the course in which the Major Research Paper is completed.

**Units:** 0

**Hours:** 

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LAW 391

**Supervised Group Project**

Upper-year students may undertake a program of supervised group study as a basis for working through some common interest in law. Groups will ordinarily have a maximum of twelve members. They will be formed on the students’ initiative but will require the agreement of a faculty member to act as the project supervisor. Students who are contemplating the formation of a group are responsible for designing a project proposal and securing a faculty supervisor. They should discuss their plans with the Dean or Associate Dean as early as possible in the academic year prior to the year in which the project will be undertaken so that the necessary planning can be done and approval secured. All group projects require the written approval of the Dean and may be allowed to extend over two terms. In exceptional circumstances and with the written approval of the Dean, group members may enrol in the course for differing credit values depending on the level of their participation in the project provided that the unit value for each student is determined prior to his or her enrolment in the course.

**Note:** May be taken more than once for credit with permission of the faculty to a maximum of 4 units.

**Units:** 1.0-2.0

**Hours:** 2-0-0 to 4-0-0

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LAW 392

**Water Law**

Water is emerging globally as the most important use or property entitlement that affects land rights, community health, commerce (including agriculture), urban development and regional sustainability. Explores the structures of law and policy that shape the use and entitlement to water and its governance in Canada. Include case studies and select topics from European and U.S. water regimes, aboriginal water rights, water markets, and water quality.

**Note:** Credit will be granted for only one of LAW 392, LAW 343 (if taken in the same topic).

**Units:** 1.5

**Hours:** 3-0-0

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LAW 393

**Contaminated Sites and Environmental Remediation**

Provides students with tools to represent clients in complex legal issues surrounding contaminated sites and environmental remediation central to modern environmental regulation, law and practice, advocate for law reform, and to gain a familiarity with relevant legal and scientific scholarship. Considers social and regulatory context of land contamination, and legal and policy options for achieving timely and effective remediation.

**Note:** Credit will be granted for only one of LAW 393, LAW 343 (if taken in the same topic).

**Units:** 1.5

**Hours:** 3-0-0

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LAW 394

**Environmental Law and Science**

Environmental law involves the convergence of public policy and complex scientific issues. This seminar course explores the theoretical and practical intersections between law and science, focusing on environmental and natural resources. Students examine issues that arise when the scientific method and reasoning processes meet legal burdens of proof in the courtroom. The role of expert opinion evidence will be examined, as well as the use of science in the drafting of legislative instruments.

**Note:** Credit will be granted for only one of LAW 394, LAW 343 (if taken in the same topic).

**Units:** 1.5

**Hours:** 3-0-0

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LAW 395

**Comparative Indigenous Rights**


**Note:** Credit will be granted for only one of LAW 395, LAW 343 (if taken in the same topic)

**Units:** 1.5

**Hours:** 3-0-0

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LAW 395I

**Coast Salish Legal Studies and Language**

Examines Coast Salish laws and standards for the regulation of relationships, the adjudication and management of disputes, and legal institutions. Focuses on Coast Salish language skills and linguistic legal pedagogy.

**Prerequisite(s):** Admission to the JD/JID Program.

**Units:** 2.0

**Hours:** 4-0-0

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LAW 396

**Nonprofit Sector Law**

Examines the legal organization and regulation of organized civil society in Canada. Explores the legal characteristics of civil society organizations, including charities, not-for-profit corporations, co-operatives and social enterprise vehicles. Examines corporate, property, and tax laws applicable to these forms of organization. introduces students to legal and theoretical issues, including prohibition on advocacy by charitable organizations, and the degree of independence of such organizations from the state. Comparisons are drawn with other jurisdictions.

**Note:** Credit will be granted for only one LAW 396, LAW 343 (if taken as section A07 ‘The Voluntary Sector (Charities)’ in Jan-Apr 2013, section A01 ‘Charities’ in Jan-Apr 2014, or section A04 ‘The Voluntary Sector’ in Sep-Dec 2015).

**Units:** 1.5

**Hours:** 3-0-0

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LAW 397

**Indigenous Legal Theories**

Focuses on developing theoretical legal perspectives about Indigenous law, its engagement, operation, and practice. Explores and challenges a range of theoretical approaches including Indigenous interpretive theories, Indigenous critical theories, and Indigenous feminist legal theories, broad theoretical constructs and theorization of specific themes within selected legal orders (e.g., property, lands and resources, justice, or gender). Engages western legal and political theories, Indigenous law research methodologies and substantive law, and Indigenous political and legal scholarship.

**Note:** Credit will be granted for only one of LAW 397, LAW 343 (if taken in the same topic).

**Units:** 1.5

**Hours:** 3-0-0
LAW 399  Units: 1.0-4.0
Supervised Research and Writing
During either of the second or third years of a student's program, a student may undertake a substantial research and writing project on a legal subject approved by a member of the Faculty of Law who agrees to supervise the project. With the approval of the Dean or the Dean's nominee: (1) a student may be awarded credit for two separate supervised research papers provided that the total credit does not exceed 4 units and each paper is started and completed in separate terms; (2) this course may be extended over two terms; and (3) this course is to be taken for 1 unit only.

LAW 450I  Units: 7.5
Indigenous Field Study Level II
Provides Indigenous territorial placement that develops Indigenous legal practice skills through community collaboration with local lawyers, Indigenous legal experts and practitioners, leaders, and community members. Potential projects include business and economics, social justice and rights, advocacy and negotiation, legal research and drafting, and local governance demands.
Prerequisite(s):
- Admission to the JD/JID Program
- LAW 350I.
Grading: COM, N, F.

LING Linguistics
Department of Linguistics
Faculty of Humanities

LING 100A  Units: 1.5  Hours: 3-0-0
Foundations in Linguistics I
An introduction to the subject matter and core foundations of language and linguistics. Topics studied will include an overview of sounds and sound systems, writing systems, word structure, sentence structure, and meaning.
Notes:
- Credit will be granted for only one of LING 100A, LING 100, LING 181, LING 360, LING 362.
- Knowledge of a language other than English not necessary.

LING 100B  Units: 1.5  Hours: 3-0-0
Foundations in Linguistics II
Explores foundational concepts in linguistics as applied to the study of language in society, language in the mind and brain, first and second language acquisition, language families, typological classification and historical language change.
Note: Credit will be granted for only one of LING 100B, LING 100, LING 360, LING 362.
Prerequisite(s):
- LING 100A or LING 181; or
- permission of the department.

LING 110  Units: 1.5  Hours: 3-0-0
Language and Thought
Does the language we speak control or influence the way we think? Explores the nature and origins of language; the psycholinguistic evidence for relationships between cognitive and linguistic structures; possible interactions between language processes and thought processes; the role of perceptual categories and folk science in cognitive mapping.

LING 156  Units: 1.5  Hours: 3-0-0
Self-Directed Immersive Language Learning I
Equips and supports students to find, create and engage in immersive communicative learning contexts for their own Indigenous languages at an introductory level through participation in self-directed language activities. Students log 75-100 hours of communicative Indigenous language learning through a variety of self-directed methods.
Note: May be taken more than once for credit with permission of the department.
Prerequisite(s):
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or
- permission of the department.
Grading: IAP, COM, N, F.

LING 157  Units: 1.5  Hours: 3-0-0
Supporting Indigenous Language Learning
Supports students learning their Indigenous language by examining effective strategies for adult L2 (second language) learners. Students explore what is known about becoming successful language learners, considering individual learning styles and the human and other resources available to learners.
Note: Credit will be granted for only one of LING 157, IED 157.
Prerequisite(s):
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or
- permission of the department.

LING 158  Units: 1.5  Hours: 3-0-0
Indigenous Language Mentorship I
75-100 hours of mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the introductory level.
Notes:
- May be taken more than once for credit with permission of the department.
- Subject to the "Guidelines for Ethical Conduct" and "Regulations Concerning Practice".
Prerequisite(s):
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or
- permission of the department.
Grading: IAP, COM, N, F.

LING 159  Units: 1.5  Hours: 3-0-0
Indigenous Language I
Learning an Indigenous language at the first-year level.
Notes:
- May be taken more than once for credit with permission of the department.
- Registration is normally limited to students in one of the BEd or Diploma in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, or Certificate in Indigenous Language Revitalization.

LING 160  Units: 1.5  Hours: 3-0-0
Indigenous Language II
Explores Indigenous languages from the perspective of Indigenous language scholars and teachers. Topics include: the nature of language acquisition and historical change; language family relationships; language contact and divergence; language revitalization and maintenance; Indigenous language education and curriculum development.

LAW 180A  Units: 1.5  Hours: 3-0-0
Formerly part of LING 180
Dynamics of Indigenous Language Shift
Introduces the human dynamics and political and social factors associated with Indigenous language shift and language loss, including the profound psychological, intellectual and spiritual effects on individuals, families, communities and cultures. Language revitalization may be explored as a source of healing and empowerment.
Note: Credit will be granted for only one of LING 180A, LING 180.

LAW 180B  Units: 1.5  Hours: 3-0-0
Formerly part of LING 180
Issues, Principles and Best Practices in Language Revitalization
Introduces contemporary issues, principles and practice models in the revival, maintenance and revitalization of Indigenous languages in Canada and around the world. Participants identify community assets supporting individual, family and community language revitalization.
Note: Credit will be granted for only one of LING 180B, LING 180.

Prerequisite(s):
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or
- permission of the department.

LAW 181  Units: 1.5  Hours: 3-0-0
Introductory Linguistics for Language Revitalization
Introduces topics in the study of language and linguistics, providing a foundation for understanding language revitalization. Topics include the nature of sound systems and how they relate to orthographies, literacy, word structures and dictionaries, sentence structures and understanding texts, meaning and vocabulary, linguistic aspects of language acquisition and historical change. Develops understanding of the languages targeted for revitalization and provides an introduction to linguistic concepts and reference materials.
Note: Credit will be granted for only one of LING 181, LING 100, LING 100A, LING 360, LING 362.
LING 182 Units: 1.5 Hours: 3-0-0
Language Learning, Language Revitalization and Social Action
Examination of formal and informal approaches to language teaching and learning in Indigenous community settings. Topics include forms of language acquisition, Indigenous teaching and learning strategies, how strategies are related to community needs and goals and the role of community and community members in teaching and learning. Emphasis on strategies for mobilizing social and political forces for language maintenance and revival.
Prerequisite(s):
• Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or
• permission of the department.

LING 183A Units: 1.5 Hours: 3-0-0
Formerly: part of LING 183
Documentation and Recording for Indigenous Language Reclamation
An examination of planning strategies, protocols and methods of data collection, analysis and organization appropriate for field activities associated with language preservation and revitalization. Focus on elicitation methodologies, audio recording, digital file management, strategies for community involvement, protocols, ethical and intellectual property issues.
Note: Credit will be granted for only one of LING 183A, LING 183.
Prerequisite(s):
• Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or
• permission of the department.

LING 183B Units: 1.5 Hours: 3-0-0
Formerly: part of LING 183
Advanced Methods for Indigenous Language Documentation
An examination of project planning and development appropriate for field activities associated with language preservation and revitalization. Topics include interview and language-data recording methods, language documentation and database development, building an archive, approaches to sharing information, media production, publishing and media production models. Strategies for community involvement, project planning, protocols and ethical intellectual property issues are implemented through projects.
Note: Credit will be granted for only one of LING 183B, LING 183.
Prerequisite(s):
• Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or
• permission of the department.

LING 184 Units: 1.5 Hours: 3-0-0
Indigenous Language Materials Development
Preparation and evaluation of curriculum and classroom materials for teaching Indigenous languages. Theory and application of curriculum development to immersion/language programs: designs, organizational patterns, materials, and media, change strategies and evaluation. Micro-teaching will provide practice in the teaching methods under study.
Prerequisite(s):
• Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or
• permission of the department.

LING 185 Units: 1.5 or 3.0
Indigenous Language Revitalization Practicum
A 70 or 140 hour work-study under the mentorship of an Elder or fluent speaker to develop understanding of local language preservation and revitalization issues and strategies. Focus on local language revitalization program planning and collaboration with local language workers.
Note: Subject to the "Guidelines for Ethical Conduct" and "Regulations Concerning Practice".
Prerequisite(s):
• Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or
• permission of the department.
Grading: INP, COM, N, F.

LING 186 Units: 1.5 Hours: 3-0-0
Language in Indigenous Culture
An intensive examination of the ways in which language is embedded in the cultural heritage and social context of a selected community, with a focus on oral history, including legends, song, dance, and cultural practices, methods and protocols, along with the impacts and implications of social change on language.
Note: Normally delivered in community settings to students and non-credit participants with a focus on the language and culture of the community.
Prerequisite(s):
• Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or
• permission of the department.

LING 187 Units: 1.5 Hours: 3-0-0
Special Topics in Language Revitalization
An intensive study of some aspect of language preservation and/or revitalization.
Note: May be taken more than once for credit with permission of the department.
Prerequisite(s):
• Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or
• permission of the department.
Grading: INP, COM, N, F.
LING 258 Units: 1.5 Hours: 3-0-0
Also: IED 258
Indigenous Language Mentorship II
75-100 hours of mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the second-year level.
Notes: • May be taken more than once for credit with permission of the department.
• Subject to the “Guidelines for Ethical Conduct” and “Regulations Concerning Practica”.
Prerequisite(s): • One of LING 156, LING 158, LING 159, IED 156, IED 158, IED 159; and
• admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or
• permission of the department.
Grading: INP. COM, N, F.

LING 259 Units: 1.5 Hours: 3-0-0
Also: IED 259
Indigenous Language II
Learning an Indigenous language at the second-year level.
Note: May be taken more than once for credit with permission of the department.
Prerequisite(s): • One of LING 156, LING 158, LING 159, IED 156, IED 158, IED 159; and
• admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or
• permission of the department.

LING 261 Units: 1.5 Hours: 3-0-0
Also: PAAS 279
Formerly: CHIN 261
Introduction to Chinese Language and Linguistics
Introduces the synchronic and diachronic descriptions of Chinese. Subjects covered may include phonology, morphology, syntax, semantics, historical changes, poetics, dialectology, orthography, the sociolinguistic and psycholinguistic aspects of Chinese, the relationship between the Chinese language, thought, and culture, and the history of the Chinese linguistics.
Notes: • Credit will be granted for only one of LING 261, CHIN 261, PAAS 279
• Previous knowledge of Chinese not necessary.

LING 270 Units: 1.5 Hours: 3-0-0
The Evolution of Language
Explores how language evolved in the human species but not in others. Topics include whether language emerged gradually or suddenly, what its evolutionary precursors might be and what kinds of selective pressures have made language adaptive.

LING 272 Units: 1.5 Hours: 3-0-0
Formerly: LING 172
Introduction to Indigenous Languages of British Columbia
An examination of the Indigenous languages of British Columbia, focusing on unique features. Also considered are techniques for language study from written and audio materials and with elders, and the revitalization of local languages.
Note: Credit will be granted for only one of LING 272, LING 172.

LING 290 Units: 1.5 Hours: 3-0-0
Writing: Encoding Language
Explores the categories and unique characteristics of a sampling of ancient and modern writing systems including writing systems of Indigenous languages of Canada, focusing on primarily visual systems and on the relationship of writing to language. Examines diverse representational systems, which may include non-visual systems like Braille, textile-based systems and graffiti, in order to gain an understanding of the nature of writing. Additional topics may include origins, social context and acquisition of writing.

LING 295 Units: 1.5 Hours: 3-0-0
Formerly: LING 195
The Social Side of English Grammar
An examination of the ideal of “good grammar” and its role in society and in language learning and teaching. Topics include origins and sources of traditional ideas of “good grammar”, challenges to traditional views, the role of arbiters of grammar, grammar and the changing media, (sub)cultures and grammar, and grammar and the marketplace.
Note: Credit will be granted for only one of LING 295, LING 195.

LING 297 Units: 1.5 Hours: 3-0-0
Introduction to Selected Topics in Linguistics
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 6 units.

LING 301 Units: 1.5 Hours: 3-0-0
Topics in the Structure of an Indigenous Language Family
A study of selected topics in the linguistic structures of a particular family of Indigenous languages. May focus on a particular language within this family, and will include discussion of oral and written literature and related cultural topics. Language revitalization in Indigenous communities associated with this family of languages will be discussed. Topics may include Salish, Dene (Athabaskan) or Wakashan, major language families of British Columbia.
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s): Minimum third-year standing.

LING 309 Units: 1.5 Hours: 3-0-0
Formerly: LING 409
Morphology
Issues and current theoretical models used to account for the generation of words. Topics will include identification and classification of morphemes, inflectional and derivational morphology, the nature of lexical representations and other components of grammar.
Note: Credit will be granted for only one of LING 309, LING 407, LING 408, LING 409.
Prerequisite(s): LING 200 and LING 203.

LING 311 Units: 1.5 Hours: 3-0-0
Formerly: LING 410A
Syntax
Study of sentence grammar using description, analysis, argumentation and theoretical bases of generative syntax. Develops skills of observation and analysis.
Note: Credit will be granted for only one of LING 311, LING 410A.
Prerequisite(s): LING 203.

LING 312 Units: 1.5 Hours: 3-0-0
Formerly: LING 440
Phonology
Study of sound systems using description, analysis, argumentation, and the theoretical bases of generative phonology. Develops skills of observation and analysis.
Note: Credit will be granted for only one of LING 312, LING 440.
Prerequisite(s): LING 200.

LING 325 Units: 1.5 Hours: 3-0-0
Lexical Semantics
An introduction to the linguistic analysis of word meaning, its representation, and its effects on syntax. Topics may include sense relations among words (antonymy, hyponymy, synonymy), lexicalization patterns, lexical aspect, thematic roles and argument structure.
Prerequisite(s): LING 100A.

LING 326 Units: 1.5 Hours: 3-0-0
Meaning in Language
Investigates topics in linguistic theories of sentence meaning, including relations between sentences (entailment, presupposition, conversational implicature), tense, aspect, modality, quantification and pronominalization.
Note: Credit will be granted for only one of LING 326, LING 226, LING 426.
Prerequisite(s): LING 100A.

LING 338 Units: 1.5 Hours: 3-0-0
Formerly: LING 438
Second Language Phonology
Examines the phonetic and phonological systems of interlanguage; explores contemporary theories of L2 phonological acquisition; develops skills in phonological description and analysis.
Note: Credit will be granted for only one of LING 338, LING 438, LING 440 (if taken prior to Sep-Dec 2010).
Prerequisite(s): LING 200.
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| **LING 345** | 1.5 | 3-0-0 | Sign Language as Language  
Judges some common misconceptions about sign language so that this course aims to dispel. Overview of linguistic research on sign language, which may include origins, structure, acquisition and issues in Deaf culture and Deaf rights.  
**Note:** No knowledge of ASL or Linguistics required. |
| **LING 356** | 1.5 | 3-0-0 | Self-Directed Immersive Language Learning III  
Equips and supports students to find, create and engage in immersive communicative learning contexts for their own Indigenous languages at third year level through participation in self-directed language activities. Students log 75-100 hours of communicative Indigenous language learning through a variety of self-directed methods.  
**Note:** May be taken more than once for credit with permission of the department.  
**Prerequisite(s):**  
- One of LING 256, LING 258, LING 259, IED 256, IED 258, IED 259; and  
- admission to one of BEd or Diploma program in Indigenous Language Revitalization; Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or  
- permission of the department. |
| **LING 358** | 1.5 | 3-0-0 | Indigenous Language Mentorship  
75-100 hours of mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the third-year level.  
**Notes:**  
- May be taken more than once for credit in different topics with permission of the department.  
- Subject to the “Guidelines for Ethical Conduct” and “Regulations Concerning Practica”.  
**Prerequisite(s):**  
- One of LING 256, LING 258, LING 259, IED 256, IED 258, IED 259; and  
- admission to one of BEd or Diploma program in Indigenous Language Revitalization; Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or  
- permission of the department.  
**Grading:** INP, COM, N, F. |
| **LING 359** | 1.5 | 3-0-0 | Indigenous Language III  
Learning an Indigenous language at the third-year level.  
**Note:** May be taken more than once for credit in different topics with permission of the department.  
**Prerequisite(s):**  
- One of LING 256, LING 258, LING 259, IED 256, IED 258, IED 259; and  
- admission to one of BEd or Diploma program in Indigenous Language Revitalization; Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or  
- permission of the department. |
| **LING 361** | 1.5 | 3-0-0 | Anthropological Linguistics  
An exploration of the relationship between language and culture including the use of language as an ethnographic tool. Topics may be examined through the study of sign language, pop culture, and electronic representations of language such as texting. |
| **LING 362** | 1.5 | 3-0-0 | Psycholinguistics  
The psychology of language, examining the process of comprehension and production, including language and cognition, conversational discourse and inference and semantics, among other topics.  
**Note:** Credit will be granted for only one of LING 362, LING 370, PSYC 370, PSYC 370A. |
| **LING 363** | 1.5 | 3-0-0 | Child Language Acquisition  
The biological bases of language; the stage by stage acquisition of the phonology, morphology, syntax, and semantics of the child’s first language; the child’s developing metalinguistic abilities; the child’s growing awareness of the form and function of speech acts, as well as the discourse rules governing conversations.  
**Note:** Credit will be granted for only one of LING 363, LING 369, PSYC 369, PSYC 370B. |
| **LING 364** | 1.5 | 3-0-0 | Topics in Psycholinguistics  
*Credit will be granted for only one of LING 364, PSYC 370, PSYC 370A.*  
**Prerequisite(s):**  
- admission to Diploma program in Applied Linguistics. |
| **LING 365** | 1.5 | 3-0-0 | Language and Land  
Introduces and explores the links between Indigenous languages and land.  
**Prerequisite(s):** Admission to BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Indigenous Language Revitalization. |
| **LING 366** | 1.5 | 3-0-0 | Indigenous Languages of British Columbia  
Survey of the semantic, phonological, morphological and syntactic structure of languages belonging to seven different language families of British Columbia, as well as strategies related to their revitalization and hypotheses of their history.  
**Prerequisite(s):** LING 200 and LING 203. |
| **LING 367** | 1.5 | 3-0-0 | Second Language Acquisition  
An examination of the process of acquiring a second or additional language. Topics include the nature of learner language, individual differences in language acquisition, the role of input and interaction, similarities and differences in L1 and L2 acquisition, instructed acquisition and the relationship between acquisition research and second language teaching.  
**Prerequisite(s):**  
- 1.5 units of LING course; or  
- admission to Diploma program in Applied Linguistics. |
| **LING 368** | 1.5 | 3-0-0 | Approaches and Methods in Language Teaching  
An introduction to approaches, methods, and techniques in language teaching. Addresses issues such as curriculum development, lesson planning, instructional strategies for teaching different language skills including listening, speaking, reading, writing, grammar and vocabulary, and the use of classroom materials for language teaching. Active classroom observation is a required component of this course. Contains an element of Practicum and is thus subject to the “Guidelines for Ethical Conduct” and “Regulations Concerning Practica”.  
**Prerequisite(s):**  
- 1.5 units of LING course; or  
- admission to Diploma program in Applied Linguistics. |
| **LING 369** | 1.5 | 3-0-0 | Global Contexts of Language  
Explores social, cultural, economic, political, and historical factors involved in language use. Topics include: language and identity; language rights; language attitudes; language shift, maintenance and revitalization; language policy and education; study of Indigenous and non-Indigenous languages in a range of global contexts.  
**Note:** Open to students who have credit in LING 377 (if taken between September 1979 and August 1981). |
| **LING 370** | 1.5 | 3-0-0 | Approaches, Methods, and Techniques in Language Teaching  
Introduces and explores the links between Indigenous languages and land.  
**Prerequisite(s):** Admission to BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Indigenous Language Revitalization. |
| **LING 371** | 1.5 | 3-0-0 | Acoustic and Perceptual Phonetics  
A study of the acoustic properties of speech sounds and of how these properties are perceived by listeners, students are trained in transcription using the International Phonetic Alphabet and in the use of instrumental tools and techniques for analyzing speech sounds.  
**Prerequisite(s):**  
- LING 200; or  
- permission of the department. |
LING 381 - LING 456

LING 381 Units: 1.5 Hours: 3-0-0
Physiology of Speech Production
The physiology of the human speech production mechanism including aspects of the respiratory, laryngeal and supralaryngeal articulatory systems, as well as neurological control systems.
Prerequisite(s):
- LING 200, or
- permission of the department.

LING 387 Units: 1.5 Hours: 3-0-0
Task-based Second Language Instruction
Introduces task-based language instruction in second language learning. Examines recent theory and research and considers key issues relevant to this approach. Emphasis will be on the pedagogical implications and implementation of task-based instruction in the classroom.
Prerequisite(s): LING 373.

LING 388 Units: 1.5 Hours: 3-0-0
How English Grammar Works
Examines the forms and functions of the building blocks of English grammar, including words, phrases and clauses, along with variations of basic sentence patterns. Also addresses differences between written and spoken standards.

LING 390 Units: 1.5 Hours: 3-0-0
The Growth of Modern English
The linguistic history of the English language from its Proto-Indo-European origins to the 18th century. Topics include the causes of language change, the development of the phonological, morphosyntactic and lexical systems of English, and the significance of social and regional dialects.
Note: Credit will be granted for only one of LING 390, ENGL 390, ENGL 440.

LING 391 Units: 1.5 Hours: 3-0-0
World Englishes
Explores the global spread of English and the resulting regional, stylistic and social English varieties found in America, the Caribbean, Africa, Asia and Australasia. Topics may include: historical contexts through which global varieties have developed; the phonology, morphology, syntax and lexicon of the different varieties; language change; socio-cultural and ideological issues associated with language spread; standardization.

LING 392 Units: 1.5 Hours: 3-0-0
Canadian English and Dialectology
An examination of the methods used to research and analyze regional and social dialects, with a focus on research on Canadian English. The distinctive features of Canadian English vocabulary, grammar and pronunciation will be examined along with an overview of the historical factors that have given rise to these features.

LING 395 Units: 1.5 Hours: 3-0-0
Language and Society
A study of language in its social context, covering aspects of linguistic variation within and across speech communities. Topics may include language and class, gender, age, situation and ethnicity; languages in contact (pidgin and creole languages), codeswitching and standardization; rules of conversation and respectful address; societal features of language change.
Prerequisite(s): third-year standing.

LING 396 Units: 1.5 Hours: 3-0-0
Also: PAAS 399
Formerly: JAPA 396
Sociolinguistic Issues in Japanese
Examines a wide range of sociolinguistic topics, including non-verbal communication and types of Japanese spoken outside of Japan. Attention will be given to linguistic, dialectal, and stylistic variation in speech communities, and to sociolinguistic considerations such as class, gender, and social setting.
Note: Credit will be granted for only one of LING 396, JAPA 396, PAAS 399.

LING 397 Units: 1.5 Hours: 3-0-0
Issues in Cross-Cultural Communication
Explores how “we” view ourselves and others, as well as how others view us, enabling students to develop understanding of principles and problems involved in entering into communication with individuals from different backgrounds. Students develop an appreciation of linguistic interactions and the skills necessary to eliminate the barriers created by linguistic and supra-linguistic misunderstandings.

LING 398 Units: 1.5 Hours: 3-0-0
Language, Gender and Sexuality
Examination of the concepts of gender, sexuality and language use and the relations among them. Explores differences between women’s and men’s speech styles including non-English speaking cultures, sexuality and language use, the pragmatics of “politically correct” language and gender socialization.
Recommendation(s): 1.5 units of LING course recommended prior to LING 398.

LING 411 Units: 1.5 Hours: 3-0-0
Formerly: LING 410B
Advanced Syntactic Analysis
Surveys current issues in syntactic theory with particular emphasis on contemporary theories and cross-linguistic analysis.
Note: Credit will be granted for only one of LING 411, LING 410B.
Prerequisite(s): LING 311.
Recommendation(s): LING 204 recommended prior to LING 411.

LING 412 Units: 1.5 Hours: 3-0-0
Advanced Phonological Analysis
Surveys current issues in the analysis of phonological phenomena with particular emphasis on contemporary theories and cross-linguistic perspectives.
Note: Credit will be granted for only one of LING 412, LING 441.
Prerequisite(s): LING 312.
Recommendation(s): LING 204 recommended prior to LING 412.

LING 420 Units: 1.5 Hours: 3-0-0
Historical and Comparative Linguistics
Introduces historical and comparative linguistics with a focus on the principles of language change through time, and the methods used to study it. Examples are taken from both Indo-European and non-Indo-European languages.
Prerequisite(s): LING 200 and LING 203.

LING 431 Units: 1.5 Hours: 3-0-0
Community-based Initiatives in Language Revitalization
Perspectives on research concerning Indigenous languages. A project-driven approach is taken and will focus on community-based initiatives in the context of the impact of church, government, and university policies and personnel.
Prerequisite(s):
- 1.5 units of LING course; and
- minimum third-year standing.

LING 449 Units: 1.5 Hours: 3-0-0
Directed Readings in Linguistics
Prerequisite(s):
- Minimum GPA of 6.5 in LING courses; and
- declared Honours or Major in Linguistics; or
- permission of the department.

LING 450 Units: 1.5 Hours: 3-0-0
Seminar in Languages
Grammatical investigation of a language other than English. The language focus and approach will vary depending on the instructor, and may involve contrastive analysis with another language.
Note: May be taken more than once for credit with permission of the department to a maximum of 3 units.
Prerequisite(s):
- LING 200 and LING 203; or
- permission of the department.

LING 456 Units: 1.5 Hours: 3-0-0
Also: IED 456
Self-Directed Immersive Language Learning IV
Equips and supports students to find, create and engage in immersive, communicative learning contexts for their own Indigenous languages at the fourth-year level. Students are supported to create self-directed language domains in their lives. Students are required to log 75-100 hours of communicative Indigenous language learning through a variety of self-directed methods, as well as assess and analyze their experiences.
Note: May be taken more than once for credit with permission of the department.
Prerequisite(s):
- One of LING 356, LING 358, LING 359, IED 356, IED 358, IED 359; and
- admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or
- permission of the department.
### LING 458 - Indigenous Language Mentorship IV

**Units:** 1.5  
**Hours:** 3-0-0  
Also: IED 458

Indigenous Language Mentorship IV  
75-100 hours of mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the fourth-year level.  
**Notes:**  
- May be taken more than once for credit with permission of the department.  
- Subject to the “Guidelines for Ethical Conduct” and “Regulations Concerning Practica”.

**Prerequisite(s):**  
- One of LING 356, LING 358, LING 359, IED 356, IED 358, IED 359; and  
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or  
- Permission of the department.

**Grading:** INP, COM, N, F.

### LING 459 - Indigenous Language IV

**Units:** 1.5  
**Hours:** 3-0-0  
Also: IED 459

Indigenous Language IV  
Learning an Indigenous language at the fourth-year level.  
**Note:** May be taken more than once for credit with permission of the department.

**Prerequisite(s):**  
- One of LING 356, LING 358, LING 359, IED 356, IED 358, IED 359; and  
- Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Proficiency, Certificate in Indigenous Language Revitalization; or  
- Permission of the department.

**Grading:** INP, COM, N, F.

### LING 461 - Linguistic Field Methods

**Units:** 1.5  
**Hours:** 2-2-0

Linguistic Field Methods  
An introduction to the methods of data analysis, organization and collection required in the field situation. Language chosen for illustration may vary from year to year. The department has a particular interest in North American Indigenous languages.  
**Note:** May be taken more than once for credit in different topics with permission of the department.

**Pre- or Corequisite(s):** LING 311 and LING 312.  
**Recommendation(s):** LING 204 recommended prior to LING 461.

### LING 473 - Advanced Topics in Second Language Acquisition

**Units:** 1.5  
**Hours:** 3-0-0

Advanced Topics in Second Language Acquisition  
**Note:** May be taken more than once for credit in different topics with permission of the department to a maximum of 6 units.

**Prerequisite(s):** LING 373 and LING 374.

### LING 474 - Assessment and Testing for Instructional Purposes

**Units:** 1.5  
**Hours:** 3-0-0

Assessment and Testing for Instructional Purposes  
Explores key conceptual and empirically based approaches in second/additional language assessment. Students learn the fundamental principles, procedures, methods, and techniques of assessing language learners’ proficiency and performance in key language domains (vocabulary, listening, speaking, reading and writing).

**Prerequisite(s):** LING 373 and LING 374.

### LING 475 - Current Issues in Applied Linguistics

**Units:** 1.5  
**Hours:** 3-0-0

Formerly: LING 375

Current Issues in Applied Linguistics  
Current issues in applied linguistics with theoretical and practical significance for second and foreign language teaching and learning. Topics will vary and may include, but are not limited to, pronunciation, grammar, discourse and pragmatics, interactive and socio-cultural approaches to language teaching and learning, form-focused instruction and technology-mediated language learning.

**Note:** Credit will be granted for only one of LING 475, LING 373.

**Prerequisite(s):** LING 373 and LING 374.

### LING 476 - Seminar and Practicum in Applied Linguistics

**Units:** 1.5  
**Hours:** 2-1-0

Formerly: LING 376

Seminar and Practicum in Applied Linguistics  
Contemporary issues in second language teaching and acquisition. Participation in seminars and successful completion of the practicum, including assignments by the sponsor teacher and the supervising instructor, and the student’s practicum report, is required. Subject to the “Guidelines for Ethical Conduct” and “Regulations Concerning Practica”.

**Notes:**  
- Credit will be granted for only one of LING 476, LING 376.  
- Students with credit in LING 374 prior to 2004-2005 must consult the instructor to arrange for second language classroom observation.

**Prerequisite(s):**  
- LING 373; and  
- Declared Honours in Applied Linguistics; or  
- Permission of the department.

**Pre- or Corequisite(s):** LING 373 or LING 475.

**Grading:** INP, standard grade.

### LING 477 - Language Variation and Change

**Units:** 1.5  
**Hours:** 3-0-0

Formerly: LING 377

Language Variation and Change  
An introduction to linguistic variation and its social significance, especially the quantitative study of phonological and grammatical features and their correlations with age, sex, ethnicity and other social variables. Includes field methods, quantitative methods for correlating linguistic and social variables and practice in dialect analysis based on data from the speech community.

**Prerequisite(s):** LING 200 and LING 203.  
**Recommendation(s):** LING 204 recommended prior to LING 495.

### LING 478 - Indigenous Language Revitalization, Certificate in

**Units:** 1.5  
**Hours:** 3-0-0

Formerly: LING 379

Indigenous Language Revitalization, Certificate in  
• Admission to one of BEd or Diploma program in Indigenous Language Revitalization, Certificate in Indigenous Language Revitalization; or  
• Permission of the department.

**Grading:** INP, COM, N, F.

### MATH - Mathematics

**Mathematics**  
Department of Mathematics and Statistics  
Faculty of Science

### MATH 100 - Calculus I

**Units:** 1.5  
**Hours:** 3-0-1

Calculate I  
Review of analytic geometry; functions and graphs; limits; derivatives; techniques and applications of differentiation; antiderivatives; the definite integral and area; logarithmic and exponential functions; trigonometric functions; Newton’s, Simpson’s and trapezoidal methods; the Hopital’s rule.

**Note:** Credit will be granted for only one of MATH 100, MATH 102, MATH 109.

**Prerequisite(s):**  
- One of MATH 120 with a minimum grade of C+, Pre- Calculus 12 with a minimum grade of B (73%); Principles of Mathematics 12 with a minimum grade of B (73%); or  
- Permission of the department.

**Recommendation(s):** A passing grade in Calculus 12 or equivalent course recommended prior to MATH 100, since MATH 100 expects some previous exposure to Calculus.

### MATH 101 - Calculus II

**Units:** 1.5  
**Hours:** 3-0-1

Calculate II  
Volumes; arc length and surface area; techniques of integration with applications; polar coordinates and area; Taylor’s formula; improper integrals; series and tests for convergence; power series and Taylor series; complex numbers.

**Note:** See note 4 under Notes on Course Requirements.

**Prerequisite(s):**  
- MATH 100 or MATH 109; or  
- Permission of the department.
<table>
<thead>
<tr>
<th>MATH 102</th>
<th>Units: 1.5</th>
<th>Hours: 3-0-0</th>
<th>Calculus for Students in the Social and Biological Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus of one variable with applications to the social and biological sciences.</td>
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<td>Notes:</td>
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<tr>
<td>• Credit will be granted for only one of MATH 102, MATH 100, MATH 109.</td>
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<tr>
<td>• See note 4 under &quot;Notes on Course Requirements&quot;.</td>
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<tr>
<td>Prerequisite(s): One of MATH 120 with a minimum grade of C, Pre-Calculus 12, Principles of Mathematics 12.</td>
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<table>
<thead>
<tr>
<th>MATH 109</th>
<th>Units: 1.5</th>
<th>Hours: 3-0-1</th>
<th>Introduction to Calculus</th>
</tr>
</thead>
<tbody>
<tr>
<td>A first course intended for students with no previous exposure to calculus. Review of analytic geometry; functions and graphs; limits; derivatives; techniques and applications of differentiation; antiderivatives; the definite integral and area; logarithmic and exponential functions; trigonometric functions; Newton's, Simpson's and trapezoidal methods; Hospital's rule.</td>
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<tr>
<td>Note: Credit will be granted for only one of MATH 109, MATH 100, MATH 102.</td>
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<tr>
<td>Prerequisite(s):</td>
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<tr>
<td>• One of MATH 120 with a minimum grade of C+, Pre-Calculus 12 with a minimum grade of B (73%), Principles of Mathematics 12 with a minimum grade of B (73%); or</td>
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<tr>
<td>• permission of the department.</td>
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<table>
<thead>
<tr>
<th>MATH 110</th>
<th>Units: 1.5</th>
<th>Hours: 3-0-1</th>
<th>Matrix Algebra for Engineers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Complex numbers, matrices and basic matrix operations, vectors, linear equations, determinants, eigenvalues and eigenvectors, linear dependence and independence, orthogonality.</td>
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<tr>
<td>Note: Credit will be granted for only one of MATH 110, MATH 133, MATH 211, MATH 233A.</td>
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<tr>
<td>Prerequisite(s): Admission to BaEng or BSEng program.</td>
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<table>
<thead>
<tr>
<th>MATH 120</th>
<th>Units: 1.5</th>
<th>Hours: 3-0-1</th>
<th>Precalculus Mathematics</th>
</tr>
</thead>
<tbody>
<tr>
<td>The essential topics prerequisite for calculus. Elementary functions with emphasis on the general nature of functions; polynomial, rational, exponential, logarithmic, and trigonometric functions.</td>
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<td>Notes:</td>
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<tr>
<td>• Not open for credit to students with credit in any of MATH 012, MATH 100, MATH 102, MATH 109.</td>
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<tr>
<td>• Not intended for students who are proficient with the topics covered in Principles of Mathematics 12 or Pre-Calculus 12.</td>
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<tr>
<td>• See note 4 under &quot;Department of Mathematics and Statistics&quot;, &quot;Notes on Course Requirements&quot;.</td>
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<tr>
<td>Prerequisite(s):</td>
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<tr>
<td>• Pre-Calculus 11 or Principles of Mathematics 11; or</td>
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<tr>
<td>• permission of the department.</td>
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<table>
<thead>
<tr>
<th>MATH 122</th>
<th>Units: 1.5</th>
<th>Hours: 3-0-0</th>
<th>Logic and Foundations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Logic and quantifiers, basic set theory, mathematical induction and recursive definitions, divide and conquer recurrence relations, properties of integers, counting, functions and relations, countable and uncountable sets, asymptotic notation.</td>
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<td>Notes:</td>
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<tr>
<td>• Credit will be granted for only one of MATH 122, MATH 224, CENG 245.</td>
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<tr>
<td>• Not open for credit to students with credit in any of MATH 222, MATH 422, MATH 423.</td>
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<tr>
<td>• Students with 90% or higher in Principles of Mathematics 12 or Pre-Calculus 12 may request permission to register in the course.</td>
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<tr>
<td>Prerequisite(s):</td>
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<tr>
<td>• One of MATH 100, MATH 102, MATH 109, MATH 151; or</td>
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<tr>
<td>• permission of the department.</td>
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<thead>
<tr>
<th>MATH 151</th>
<th>Units: 1.5</th>
<th>Hours: 3-0-0</th>
<th>Finite Mathematics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permutations and combinations, basic laws of probability, conditional probability, independence, tree diagrams, Bayes' formula, random variables and their probability distributions (including binomial and hypergeometric), expectation, Markov chains, geometric approach to linear programming, matrices, systems of linear equations, and Gauss-Jordan elimination.</td>
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<tr>
<td>Note: Not open for credit to students with credit in MATH 352 or STAT 350.</td>
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<tr>
<td>Prerequisite(s): One of 1.5 units of MATH course numbered 100 or higher, Foundations of Mathematics 11, Foundations of Mathematics 12, Pre-Calculus 11, Pre-Calculus 12, Principles of Mathematics 11, Principles of Mathematics 12.</td>
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<thead>
<tr>
<th>MATH 161</th>
<th>Units: 1.5</th>
<th>Hours: 3-0-0</th>
<th>Mathematics for Elementary School Teachers I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number systems and their properties, the set of real numbers and its subsets, the interpretation of numerical operations with applications including combinations and permutations, standard computation algorithms, basic geometry. Problem solving is emphasized throughout.</td>
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<td>Notes:</td>
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<tr>
<td>• Credit will be granted for only one of MATH 161, MATH 160, MATH 160A.</td>
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<tr>
<td>• Not open for credit to students with more than 1.5 units of credit in MATH courses numbered 100 or higher (excluding MATH 120) without prior permission of the department.</td>
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<tr>
<td>• Intended for prospective Elementary Education students only.</td>
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<tr>
<td>Prerequisite(s):</td>
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<tr>
<td>• One of Foundations of Mathematics 11, Foundations of Mathematics 12, Pre-Calculus 11, Pre-Calculus 12, Principles of Mathematics 11, Principles of Mathematics 12.</td>
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<table>
<thead>
<tr>
<th>MATH 162</th>
<th>Units: 1.5</th>
<th>Hours: 3-0-0</th>
<th>Mathematics for Elementary School Teachers II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mental computation and estimation, non-standard computation algorithms, probability, basic algebra and functions, elementary number theory, compass and straight-edge constructions, measurement topics, including length, area and volume. Problem solving is emphasized throughout.</td>
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<tr>
<td>Notes:</td>
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<tr>
<td>• Credit will be granted for only one of MATH 162, MATH 160, MATH 160B.</td>
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<tr>
<td>• Not open for credit to students with more than 3.0 units of credit in MATH courses numbered 100 or higher (excluding MATH 120) without prior permission of the department.</td>
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<tr>
<td>• Intended for prospective Elementary Education students only.</td>
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<td>Prerequisite(s):</td>
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<tr>
<td>• MATH 161; or</td>
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<tr>
<td>• permission of the department.</td>
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<thead>
<tr>
<th>MATH 200</th>
<th>Units: 1.5</th>
<th>Hours: 3-0-1</th>
<th>Calculus III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vectors and vector functions; solid analytic geometry; partial differentiation; directional derivatives and the gradient vector; Lagrange multipliers; multiple integration with applications; cylindrical and spherical coordinates; change of variables; surface area; introduction to line and surface integrals.</td>
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<tr>
<td>Note: Credit will be granted for only one of MATH 200, MATH 202, MATH 205.</td>
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<tr>
<td>Prerequisite(s): MATH 101.</td>
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<thead>
<tr>
<th>MATH 202</th>
<th>Units: 1.5</th>
<th>Hours: 3-0-1</th>
<th>Intermediate Calculus for CSC and EOS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vectors, curves, and surfaces in space; partial differentiation; directional derivatives and the gradient vector; Taylor's theorem for a function of two variables; introduction to differential equations.</td>
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<tr>
<td>Notes:</td>
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<tr>
<td>• Credit will be granted for only one of MATH 202, MATH 200, MATH 205.</td>
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<tr>
<td>• Not open to students with credit in MATH 201 or MATH 204.</td>
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<tr>
<td>Prerequisite(s): MATH 101.</td>
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<tr>
<th>MATH 204</th>
<th>Units: 1.5</th>
<th>Hours: 3-0-1</th>
<th>Calculus IV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vector fields; div, grad and curl operators; line integrals; Green's Theorem; surface integrals; flux; Divergence Theorem; Stokes' Theorem; multivariate Taylor series; Fourier series; first and second order differential equations with applications; variation of parameters; reduction of order; power series solutions about ordinary points; Laplace transform.</td>
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<tr>
<td>Note: Credit will be granted for only one of MATH 201, MATH 204, MATH 300.</td>
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<tr>
<td>Prerequisite(s): MATH 200 or MATH 205.</td>
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</tbody>
</table>
MATH 208  Units: 1.5  Hours: 3-0-0  
Mathematics for Economics and Econometrics
Topics in linear algebra: basic matrix algebra, solutions and existence of solutions of linear systems, determinants and their properties, linear independence and dependence, the rank of a matrix, quadratic forms, definiteness of matrices; Topics in optimization: multivariate calculus, convex sets, convex and concave functions, quasi-convex and quasi-concave functions, unconstrained and constrained optimization, the first order necessary optimality condition, the second order sufficient optimality condition, the meaning of Lagrange multiplier, applications to economics and econometrics.

Notes:
- Credit will be granted for only one of MATH 208, MATH 103, MATH 140, MATH 240.
- Credit will not be granted for MATH 208 if students have credit for both one of MATH 200, MATH 202, or MATH 205 and one of MATH 110, MATH 133, MATH 211, MATH 233A.

Prerequisite(s):
- One of MATH 100, MATH 102, MATH 109; and
- ECON 103 and ECON 104; or
- permission of the department.

MATH 211  Units: 1.5  Hours: 3-0-0  
Matrix Algebra I
Matrices: simultaneous equations; determinants; vectors in 2-, 3- and n-tuple space; inner product; linear independence and rank; change of coordinates; rotation of axes in 2- and 3-dimensional Euclidean space; orthogonal matrices; eigenvalues and eigenvectors.

Note: Credit will be granted for only one of MATH 211, MATH 110, MATH 133, MATH 233A.

Prerequisite(s):
- One of:
  - Principles of Mathematics 12 with a minimum grade of A (86%),
  - Pre-Calculus 12 with a minimum grade of A (86%),
  - MATH 100,
  - MATH 102,
  - MATH 109,
  - MATH 120 with a minimum grade of A,
  - MATH 122,
  - MATH 151 with a minimum grade of A; or
- permission of the department.

MATH 212  Units: 1.5  Hours: 3-0-0  
Introduction to Algebra
Definitions and examples of groups, rings, fields, and integral domains; rational numbers, real numbers, and complex numbers; polynomials and their factorization; permutations. Additional topics chosen from Boolean algebras and lattices, and transfinite arithmetic.

Note: Credit will be granted for only one of MATH 212, MATH 233C.

Prerequisite(s): MATH 122.

MATH 222  Units: 1.5  Hours: 3-0-0  
Discrete and Combinatorial Mathematics
Graph theory, counting, combinatorial arguments and proofs, inclusion-exclusion, partial orders and equivalence relations, deriving and solving recurrence relations, generating functions.

Note: Not open for credit to students registered in or with credit in any of MATH 324, MATH 422, or MATH 423.

Prerequisite(s):
- MATH 122; or
- permission of the department.

MATH 236  Units: 1.5  Hours: 3-0-0  
Introduction to Real Analysis

Note: Not open for credit to students with credit in any of MATH 334, MATH 335, MATH 336.

Prerequisite(s):
- MATH 101 and MATH 122; or
- permission of the department.

MATH 242  Units: 1.5  Hours: 3-0-0  
Mathematics of Finance
Simple interest; compound interest; simple discount; simple annuities; general and other annuities; amortization methods; Canadian mortgages; sinking funds; bond prices and bond yields; net present value; capitalized cost; contingent payments; introduction to the basic concept of life annuities and life insurance.

Note: Credit will be granted for only one of MATH 242, MATH 152.

Prerequisite(s):
- One of MATH 100, MATH 102, MATH 109; and
- one of MATH 151, ECON 245, STAT 260.

Recommendation(s): Some knowledge of probability recommended.

MATH 248  Units: 1.5  Hours: 3-3-0  
Computer Assisted Mathematics and Physics
Use of a high-level computer language for mathematical and scientific experimentation, simulation, and calculation. Programming of mathematics using available functions and routines and also writing short programs for symbolic and numerical computations, visualization, graphical output, and data management. The goal is to become competent with a high-level mathematics language and to practice programming in such a language. Emphasis on hands-on coding for experimentation in a variety of mathematical and physical contexts.

Note: Credit will be granted for only one of MATH 248, PHYS 248.

Prerequisite(s):
- MATH 110 or MATH 211; and
- MATH 200, and
- CSC 110 or CSC 111.

MATH 301  Units: 1.5  Hours: 3-0-0  
Complex Variables
Theory of functions of a complex variable, analytic functions, elementary functions, integration, power series, residue theory.

Note: Credit will be granted for only one of MATH 301, MATH 338, MATH 438.

Prerequisite(s):
- MATH 200; and
- one of MATH 204, MATH 236, MATH 300, MATH 335, MATH 336.

MATH 311  Units: 1.5  Hours: 3-0-0  
Linear Algebra
Vector spaces and linear transformations, the canonical forms, inner product spaces and the spectral theorem.

Note: Credit will be granted for only one of MATH 311, MATH 333C.

Prerequisite(s):
- MATH 110 or MATH 211; and
- MATH 212.

MATH 312  Units: 1.5  Hours: 3-0-0  
Abstract Algebra I
Groups, rings and fields, including quotient structures.

Note: Credit will be granted for only one of MATH 312, MATH 333A.

Prerequisite(s):
- MATH 110 or MATH 211; and
- MATH 212; or
- permission of the department.

MATH 315  Units: 1.5  Hours: 3-0-0  
History of Mathematics
Survey of the development of Mathematics from its earliest beginnings through to the present.

Note: Credit will be granted for only one of MATH 315, MATH 415.

Pre- or Corequisite(s):
- One of MATH 312, MATH 362, MATH 366; or
- permission of department.

MATH 322  Units: 1.5  Hours: 3-0-0  
Combinatorial Designs
A study of combinatorial objects, with topics chosen from: representations and generation of permutations and combinations; Gray codes, Latin squares, factorizations of graphs, block designs and finite geometries, partially ordered sets and lattices, Boolean algebras, introduction to error correcting codes.

Prerequisite(s):
- MATH 122 and MATH 211; or
- MATH 151 and MATH 211; or
- MATH 222; or
- permission of the department.
MATH 335 - MATH 412

MATH 335  Units: 1.5  Hours: 3-0-0
Real Analysis
Note: Credit will be granted for only one of MATH 335, MATH 336, MATH 434.
Prerequisite(s):
• Either MATH 122 and MATH 300, or MATH 236, and
• MATH 200 and MATH 211.

MATH 342  Units: 1.5  Hours: 3-0-0
Intermediate Ordinary Differential Equations
Picard-Lindelof and Peano existence theorems, series solutions near regular singular points, Frobenius method, systems of first order linear equations, complex and repeated eigenvalues, nonhomogeneous linear systems, qualitative theory for nonlinear systems; Lyapunov stability theory; periodic solutions; introduction to bifurcations and chaos.
Note: Credit will be granted for only one of MATH 342, MATH 323, MATH 323A, MATH 325, MATH 379.
Prerequisite(s):
• MATH 110 or MATH 211; and
• either MATH 200 and MATH 201, or MATH 204; or
• permission of the department.

MATH 346  Units: 1.5  Hours: 3-0-0
Introduction to Partial Differential Equations
Partial differential equations in physics (wave, heat and Laplace equations), solution by separation of variables, method of characteristics for first-order partial differential equations, boundary value problems, orthogonal functions, Fourier series, transform methods (Laplace and Fourier transforms), numerical methods.
Note: Credit will be granted for only one of MATH 346, MATH 323, MATH 323A, MATH 325, MATH 379.
Prerequisite(s):
• MATH 110 or MATH 211; and
• either MATH 200 and MATH 201, or MATH 204.

MATH 348  Units: 1.5  Hours: 3-0-0
Numerical Methods
Error analysis (round off and truncation errors), roots of equations (bisection, Newton, secant), systems of linear equations (Gauss elimination and LU factorization), function approximation (interpolation, least squares, orthogonal polynomials), numerical differentiation, numerical integration (Newton-Cotes, Gaussian), numerical solution of ordinary differential equations (Euler, Taylor, Runge-Kutta, Adams), and a selection of additional topics, such as numerical optimization, finite difference methods for linear partial differential equations, iterative methods for linear systems.
Note: Credit will be granted for only one of MATH 348, CSC 340, CSC 349A.
Prerequisite(s):
• MATH 110 or MATH 211; and
• one of MATH 200 and MATH 201, MATH 200 and MATH 204, MATH 202.

MATH 352  Units: 1.5  Hours: 3-0-0
Introduction to Probability
Probability spaces, combinatorial analysis, inclusion-exclusion, conditional probability, independence, random variables, expectation, discrete and continuous distributions, limit theorems. Additional topics may include: probabilistic method, Markov chains.
Prerequisite(s):
• MATH 151 or MATH 222; and
• MATH 200 or MATH 205.

MATH 362  Units: 1.5  Hours: 3-0-0
Elementary Number Theory
Divisibility, primes, congruences, arithmetic functions, primitive roots, quadratic residues, basic representation and decimals, and a selection from the following topics: Pythagorean triples, representation as sums of squares, infinite descent, rational and irrational numbers, distribution of primes.
Prerequisite(s):
• MATH 122 or MATH 212; and
• 3 units of 200-level MATH or STAT courses.
Recommendation(s): Recommended for students planning to enter a Bachelor degree program in Education with Mathematics teaching area.

MATH 365  Units: 1.5  Hours: 3-0-0
Introduction to Topology
Basic concepts in topology, including examples in Euclidean space, metric spaces, and topological spaces. Additional topics in geometric or differential topology.
Prerequisite(s):
• MATH 212; and
• one of MATH 236, MATH 335, MATH 336.

MATH 366  Units: 1.5  Hours: 3-0-0
Geometry
Theorems on triangles and circles, Euclidean constructions, tiling and polyhedra, isometries, similarities, inversion, projective lines and points, axiomatic approach.
Note: Credit will be granted for only one of MATH 366, MATH 368A.
Prerequisite(s):
• 6 units of MATH courses; or
• permission of the department.

MATH 367  Units: 1.5  Hours: 3-0-0
Non-Euclidean Geometry
The parallel postulate and consequences, geometric transformations, the Erlanger programme, hyperbolic geometry and its various models, elliptic geometry, absolute geometry.
Note: Credit will be granted for only one of MATH 367, MATH 368B.
Pre- or Corequisite(s): MATH 301.

MATH 369  Units: 1.5  Hours: 3-0-0
Differential Geometry in R<sup>3</sup>
Curves in the plane and 3-dimensional space, curvature and torsion, Frenet-Serret apparatus, surfaces in 3-dimensional space, Gaussian and mean curvature, Theorema Egregium, Gauss-Bonnet theorem, elements of non-euclidean geometry.
Note: Not open for credit to students with credit in MATH 436 or MATH 467.
Prerequisite(s): MATH 204 and MATH 211.

MATH 375  Units: 1.5  Hours: 3-0-0
Also: PHIL 375
Philosophy of Mathematics
Introduces problems in the philosophy of mathematics. Topics may include the nature of mathematical objects, the status of the infinite in mathematics, the relationship between mathematics and natural science/physical reality.
Note: Credit will be granted for only one of MATH 375, PHIL 375.
Prerequisite(s): One of MATH 122, MATH 360, PHIL 203, PHIL 304A, PHIL 370.

MATH 377  Units: 1.5  Hours: 3-0-0
Mathematical Modelling
The formulation, analysis and interpretation of mathematical models in various areas of application. Both continuous and discrete deterministic and stochastic models will be employed. Mathematical techniques used may include: differential and difference equations, matrix analysis, optimization, simple stochastic processes, decision theory, game theory and numerical methods. The phenomena modelled may vary from year to year.
Prerequisite(s):
• MATH 110 or MATH 211; and
• MATH 200 or MATH 205; and
• MATH 201 or MATH 204; and
• one of STAT 252, STAT 254, STAT 255, STAT 260.

MATH 379  Units: 1.5  Hours: 3-0-0
Nonlinear Dynamical Systems and Chaos
An introduction to dynamical systems aimed at mathematics students and mathematically-inclined students from the sciences and engineering. Topics include: existence theory, geometric analysis, stability theory, bifurcation theory and chaos for differential equations with emphasis directed to applications in science. Assignments may involve the use of simple mathematical software.
Notes:
• Credit will be granted for only one of MATH 379, MATH 333, MATH 333A, MATH 335, MATH 342.
Prerequisite(s):
• One of MATH 110 with a minimum grade of B, or MATH 211 with a minimum grade of B; or MATH 110 and MATH 236, or MATH 211 and MATH 236, or MATH 110 and MATH 300; or MATH 211 and MATH 300; and
• MATH 200 or MATH 205; and
• MATH 201 or MATH 204.

MATH 401  Units: 1.5  Hours: 3-0-0
Complex Analysis
Principal results of complex analysis from a rigorous viewpoint. Topics chosen from: conformal mappings, the Riemann mapping theorem, the maximum principle, infinite products, Picard’s theorem, normal families, Hp-spaces, approximation by rational functions, the Riemann zeta function, analytic continuation and Riemann surfaces.
Prerequisite(s): MATH 335 or MATH 336.

MATH 412  Units: 1.5  Hours: 3-0-0
Abstract Algebra II
Field theory, composition series of groups, Galois theory.
Note: Credit will be granted for only one of MATH 412, MATH 433C.
Prerequisite(s): MATH 311 and MATH 312.
MATH 413  Units: 1.5  Hours: 3-0-0  
Applied Algebra
A survey of the applications of algebraic structures in computer science, applied mathematics, and electrical engineering. Topics may include: cryptography, switching circuits, finite state machines, state diagrams, machine homomorphism, group and matrix codes, Polya-Burnside enumeration, Latin squares, primality testing.
Note: Credit will be granted for only one of MATH 413, MATH 433D.
Prerequisite(s): MATH 312.

MATH 422  Units: 1.5  Hours: 3-0-0  
Combinatorial Mathematics
Prerequisite(s):
• MATH 212 and MATH 222; and
• 1.5 units of 300- or 400-level MATH course; or
• permission of the department.

MATH 423  Units: 1.5  Hours: 3-0-0  
Graph Theory
An introduction to the combinatorial, algorithmic and algebraic aspects of graph theory.
Prerequisite(s):
• MATH 222 and 1.5 units of 300- or 400-level MATH course; or
• permission of the department.

MATH 435  Units: 1.5  Hours: 3-0-0  
Real Analysis II
Prerequisite(s):
• MATH 335 or MATH 336; or
• permission of the department.

MATH 436  Units: 1.5  Hours: 3-0-0  
Calculus on Manifolds
Differentiable manifolds and smooth maps. Topics may include embeddings, submersions, fibre bundles, vector bundles, connections, differential forms, differential geometry, Lie groups, transversality.
Prerequisite(s):
• MATH 211 and MATH 212; and one of
• MATH 204 and MATH 236; or
• MATH 226 and MATH 300; or
• MATH 325; or
• MATH 336.

MATH 442  Units: 1.5  Hours: 3-0-0  
Advanced Ordinary Differential Equations
Rigorous existence and uniqueness theory; qualitative theory of systems of ordinary differential equations including Poincare and Liapunov stability; periodic orbits; Poincare-Bendixson theory; bifurcations; stable, unstable and centre manifold theories. Additional topics may include: averaging and perturbation methods, chaos, Melnikov method, Hamiltonian systems.
Note: Credit will be granted for only one of MATH 442, MATH 445A.
Prerequisite(s):
• MATH 300 or MATH 335; and
• MATH 342 or MATH 375; or
• permission of the department.

MATH 446  Units: 1.5  Hours: 3-0-0  
Advanced Partial Differential Equations
Note: Credit will be granted for only one of MATH 446, MATH 445B.
Prerequisite(s):
• MATH 335 or MATH 336; and
• MATH 342 or MATH 379; or
• permission of the department.

MATH 447  Units: 1.5  Hours: 3-0-0  
Nonlinear Programming
Introduction to theory and algorithm of nonlinear programming. Topics may include: unconstrained optimization theory and iterative methods; Lagrange multipliers and Karush-Kuhn-Tucker theorem for constrained optimization problems, convex programming and duality, penalty function methods.
Note: Credit will be granted for only one of MATH 447, MATH 491A (if taken in the same topic), MATH 492 (if taken in the same topic).
Prerequisite(s):
• MATH 110 or MATH 211; and
• one of MATH 204, MATH 236, MATH 300, MATH 335.

MATH 449  Units: 1.5  Hours: 3-0-0  
Scientific Computing
A comprehensive introduction to the techniques and mathematical foundations of modern methods in scientific computing for science, engineering and numerical analysis. Topics include linear and non-linear systems, eigenvalue problems, approximation of functions, initial value and boundary value problems, finite volumes, finite elements, multigrid methods, convex optimization, Monte Carlo simulations, and data assimilation.
Prerequisite(s):
• MATH 348 or CSC 349A; or
• permission of the department.

MATH 451  Units: 1.5  Hours: 3-0-0  
Probability
Language of formal probability, laws of large numbers and applications (Weierstrass approximation), central limit theorem, borel-Cantelli laws, large deviations estimates, Chernoff bounds, number-theoretic applications, coupling of random variables, the probabilistic method (first and second moment methods), combinatorial applications. Additional topics may include: Martingales in discrete probability and applications.
Prerequisite(s):
• One of MATH 204, MATH 236, MATH 300; and
• MATH 352 or STAT 350.

MATH 452  Units: 1.5  Hours: 3-0-0  
Stochastic Processes
Introduction to the branch of probability theory which deals with the mathematical analysis of systems that evolve in time while undergoing chance fluctuations. Main topics include random walks, Markov chains, Poisson processes, birth and death processes, renewal theory. Examples illustrate wide applicability of stochastic processes in many branches of science and technology.
Prerequisite(s): MATH 352 or STAT 350.

MATH 462  Units: 1.5  Hours: 3-0-0  
Topics in Number Theory
A selection of topics which may include compositions and partitions, geometry of numbers, rational approximation, distribution of primes, order of magnitude of arithmetic functions, proofs of the Prime Number Theorem and of Dirichlet's Theorem on primes in arithmetic progressions, continued fractions.
Prerequisite(s): MATH 362.

MATH 465  Units: 1.5  Hours: 3-0-0  
Topics in Topology
Topics chosen from point set topology, introduction to algebraic topology, classification of surfaces, homology theory, and homotopy theory.
Notes:
• May be taken more than once for credit in different topics with permission of the department.
• May be offered only in alternate years.
Prerequisite(s):
• MATH 365; and
• permission of the department.

MATH 475  Units: 1.5  Hours: 3-0-0  
Topics in Mathematical Biology
Possible topics include population modelling, infectious disease dynamics, models of neuronal networks and models of gene regulatory networks.
Notes:
• Credit will be granted for only one of MATH 475, MATH 575.
• May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s):
• Minimum third-year standing; and
• declared Honours or Major in Mathematics, Statistics, or Biology; and
• permission of the department.
Recommendation(s): Recommended for third- and fourth-year students in Mathematics, Statistics or Biology.
MATH 490 Units: 1.5 or 3.0
Directed Studies in Mathematics
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s): Permission of the department.

MATH 492 Units: 1.5 Hours: 3-0-0
Topics in Applied Mathematics
Possible topics include population modelling, neural networks, stochastic processes, discrete optimization, actuarial mathematics, calculus of variations, and fluid mechanics.

MATH 493 Units: 1.5 Hours: 3-0-0
Topics in Pure Mathematics
Possible topics include advanced complex analysis, functional analysis, introduction to manifolds, and mathematical logic.

MATH 498 Units: 1.5 Hours: 1.5 - 4.5-0
Seminar and Independent Project
Seminar and research project under the direction of a faculty member. The student is required to pursue an independent project, to prepare a written report and to present a seminar describing the work. The seminar is open to attendance by all students, faculty and academic visitors of the department. Only available in areas of faculty interest.
Prerequisite(s): Permission of the department.

MECH 150 Units: 1.5 Hours: 3-1*-1
3D Printing, Rapid Prototyping, and Design
Introductory course in 3D printing and rapid prototyping technologies. Drawing: sketching, orthogonal projections and isometric drawings, dimensions and tolerances. Computer Aided Design: wire-frame, surface and solid modelling. 3D scanning and digital acquisition technologies. 3D printing materials. 3D printing and additive manufacturing technologies: plastics, metals, ceramics. Includes a team-based hands-on project using 3D printing and 3D scanning. * Indicates 3-hour lab sessions for hands-on project.

MECH 200 Units: 1.5 Hours: 3-1.5*-0
Engineering Drawing
Note: Credit will be granted for only one of MECH 200, ELEC 200.

MECH 220 Units: 1.5 Hours: 3-1.5*-1
Mechanics of Solids I

MECH 240 Units: 1.5 Hours: 3-0-1
Thermodynamics
Properties and states of simple substances, P-v-T processes, equations of state, ideal gas law, first law of thermodynamics, control volume and control mass analyses, first law thermal efficiency, simple steady flow devices, heat engines, refrigerators, heat pumps, Carnot cycle, entropy, principle of increase of entropy, second law of thermodynamics, reversibility.
Prerequisite(s): MATH 101.

MECH 242 Units: 1.5 Hours: 3-0-1
Dynamics
Kinematics and dynamics of rigid bodies; analysis of planar rigid body motion using translating and rotating axes; two-dimensional rigid body dynamics using force/acceleration, work/energy and impulse/momentum methods; applications to one degree of freedom planar mechanisms and vibrations; introduction to three-dimensional rigid body dynamics.
Note: Credit will be granted for only one of MECH 242, CIVE 242.
Prerequisite(s):
- One of MATH 100, MATH 102, MATH 109, MATH 120.

MECH 285 Units: 1.5 Hours: 3-1.5*-1
Properties of Engineering Materials
Atomic structure, arrangement and movement; microstructural development and heat treatment; physical properties of ferrous and nonferrous metals, semiconductors, ceramics, polymers and composites; corrosion and mechanical properties.
* Indicates 3-hour laboratory taken by students on alternate weeks.
Note: Not open to students with credit in MECH 325.
Prerequisite(s): One of CHEM 101, CHEM 102, CHEM 150.

MECH 295 Units: 1.5 Hours: 3-0-1
Engineering Fundamentals
Ideal gas laws; work and heat; conservation of energy; thermodynamic properties of pure substances; equations of state; applications to open and closed systems; second law of thermodynamics; non-conservation of entropy; energy conversion systems; heat transfer by conduction, convection and radiation.
Note: Credit will be granted for only one of MECH 295, EGR 270.
Prerequisite(s): MATH 101.

MECH 320 Units: 1.5 Hours: 3-1.5*-1
Mechanics of Solids II
Theory of stress and infinitesimal strain in three dimensions, stress and strain tensors and equilibrium equations. Theory of elasticity in Cartesian polar coordinates and its application to curved beams, torsion of prismatic bars, thick walled cylinders, axisymmetrical loaded disks, and plate theory. Introduction to fracture mechanics and to finite element analysis of frames and trusses.
* Indicates 3-hour laboratory taken by students on alternate weeks.
Note: Not open to students with credit in MECH 280.
Prerequisite(s): MECH 220.
MECH 330  Units: 1.5  Hours: 3-1.5*-1
Introduction to Mechanical Vibrations
Vibrations of single degree of freedom systems; free undamped and damped vibration characteristics, harmonic forcing, frequency response functions, Fourier series method for periodic forcing. Multi degree of freedom systems; frequencies and modes analysis, matrix methods, and orthogonality of modes. Free and forced vibration characteristics of undamped and damped multi degree of freedom systems. Applications in vibration isolation and control.
Prerequisite(s):
•  STAT 254 or STAT 260.
•  ECE 250 or ELEC 250; and
•  All of MECH 220, MECH 285, ENGR 001; and
•  One of MECH 200, ECE 299, ELEC 299; and
Prerequisite(s): MECH 350.

MECH 335  Units: 1.5  Hours: 3-1.5-1
Theory of Mechanisms
Types of mechanisms. Analysis of the kinematics of closed loop linkages using graphical, vector and complex number methods. Follower motion synthesis and design of cam profiles. Gear terminology and the analysis of gear trains. Analysis of static and dynamic loading of mechanisms; flywheel design. Introduction to linkage synthesis, spatial open loop mechanisms with applications to manipulating.
Prerequisite(s): MECH 242.

MECH 345  Units: 1.5  Hours: 3-1.5*-1
Mechanics of Fluids
* Indicates a 3 hour laboratory taken by students on alternate weeks.
Prerequisite(s):
•  MECH 220; and
•  MATH 200.

MECH 350  Units: 1.5  Hours: 3-3-1
Engineering Design
Design methodology; recognizing and defining open-ended engineering problems, problem definition, concept generation, project planning, modelling, analysis, decision making, design synthesis, prototyping and testing. Students complete a series of design oriented projects in small teams to develop teamwork skills.
Note: Credit will be granted for only one of MECH 260, MECH 350.
Prerequisite(s):
•  One of MECH 200, ECE 299, ELEC 299; and
•  All of MECH 220, MECH 285, ENGR 001; and
•  ECE 250 or ELEC 250; and
•  STAT 254 or STAT 260.
Pre- or Corequisite(s): MECH 335.

MECH 360  Units: 1.5  Hours: 3-0-1
Design of Mechanical Elements
Quantitative design methods; review of stress analysis, load determination and static failure theories; fatigue failure arising from time-varying loads; design of specific machine elements: shafts, bearings, gears, screws and fasteners, clutches and brakes; life cycle design methods.
Prerequisite(s): MECH 220.

MECH 380  Units: 1.5  Hours: 3-1.5*-1
Formerly: MECH 435
Automatic Control Engineering
Modelling dynamic systems (linear systems and feedback control). Transfer function based analysis and design (transfer functions, root-locus, stability, transient responses). Frequency characteristics design methods (frequency responses, stability, gain and phase margins, system compensation). State-space design methods (state transition matrix, state feedback and shaping dynamic responses; linear observers).
* Indicates a 3 hour laboratory taken by students on alternate weeks.
Note: Credit will be granted for only one of MECH 380, MECH 435.
Pre- or Corequisite(s): MECH 330.

MECH 390  Units: 1.5  Hours: 3-1.5*-1
Energy Conversion
Thermal power generation, vapour and gas cycles, refrigeration and heat pumps. Compressible flow. Non reacting gas mixtures and psychrometrics. Reacting mixtures, combustion. Exergy (ability to produce work) and second law analysis.
* Indicates a 3 hour laboratory taken by students on alternate weeks.
Prerequisite(s): MECH 240.

MECH 395  Units: 1.5  Hours: 3-1.5*-1
Heat Transfer
* Indicates a 3 hour laboratory taken by students on alternate weeks.
Prerequisite(s): MECH 240 and MECH 345.

MECH 400  Units: 3.0  Hours: 2-12*-6*
Design Project
Complete design of a product or a system; specification of function, analysis, selection of materials, strength calculations, preparation of working drawings, cost analysis and tenders, preparation of final report and symposium presentation of final design. Weekly seminar series featuring topics related to design, safety, marketing and management.
*Indicates a 12-hour laboratory and 6-hour tutorial taken by students on alternate weeks.
Note: Credit will be granted for only one of MECH 400, MECH 464.
Prerequisite(s):
•  MECH 350 or BME 350; and
•  all of MECH 360, MECH 380, ENGR 002.

MECH 410  Units: 1.5  Hours: 3-1.5*-0
Also: MECH 520
Computer-Aided Design and Engineering
Fundamentals of computer graphics; basic elements of geometric modeling of solids and curved surfaces; advanced topics in engineering drawings; use of integrated CAD/CAE/CAM system for modelling, simulation, engineering analysis, automated production, and parameter optimization of mechanical designs; input and output techniques, data management, and customization of CAD/ CAE/CAM systems.
* Indicates a 3-hour laboratory taken by students on alternate weeks.
Note: Credit will be granted for only one of MECH 410, MECH 520.
Prequisite(s): One of MECH 200, BME 350, ECE 299, ELEC 299.

MECH 420  Units: 1.5  Hours: 3-0-1
Finite Element Applications
Formulation and application of the finite element method for modelling mechanical systems, including stress and vibration problems; stiffness method, stiffness and mass matrices, generalized force, numerical procedures; development of simple programs and exposure to general purpose packages.
Prerequisite(s): MECH 320 and MECH 330.

MECH 421  Units: 1.5  Hours: 3-0-0
Mechanical Vibrations
Multi-mass linear systems; flexibility and stiffness matrices, natural frequencies, mode shapes and orthogonal properties; damped or undamped response to arbitrary force. Linear continuous systems; axial and torsional vibration of rods, shafts and beams with attached mass or stiffness. Non-linear vibrations, basic methods for solution. Random vibration; elements for describing random response, Fourier transforms and frequency response functions.
Prerequisite(s): MECH 330.

MECH 423  Units: 1.5  Hours: 3-0-0
Engineering Ceramics
Structures of ceramics, glasses and glass ceramics; properties and applications of oxides, silicates, carbides, borides and nitrides; powder processing, shape forming and sintering; mechanical properties and toughening mechanisms; design concepts for brittle ceramics and Weibull analysis; ceramic capacitors and ferroelectrics; piezoelectric and electrooptic sensors; ceramic matrix composites; ceramic fiber reinforcements for composites.
Prerequisite(s): MECH 285.

MECH 430  Units: 1.5  Hours: 3-1-0
Robotics
Structure and specifications of robot manipulators; homogeneous transformations; kinematic equations and motion trajectories; dynamic models of robotic manipulators; position and force control; use of robots in industrial applications.
Prerequisite(s):
•  MECH 335 or permission of the Department; and
•  One of MECH 380, ECE 360, ELEC 360; and
•  MATH 110 or MATH 211.

MECH 520
Computer-Aided Design and Engineering
Fundamentals of computer graphics; basic elements of geometric modeling of solids and curved surfaces; advanced topics in engineering drawings; use of integrated CAD/CAE/CAM system for modelling, simulation, engineering analysis, automated production, and parameter optimization of mechanical designs; input and output techniques, data management, and customization of CAD/ CAE/CAM systems.
* Indicates a 3-hour laboratory taken by students on alternate weeks.
Note: Credit will be granted for only one of MECH 410, MECH 520.
Prequisite(s): One of MECH 200, BME 350, ECE 299, ELEC 299.

Pre- or Corequisite(s): CSC 349A.
MECH 443 - MECH 450B

MECH 443  Units: 1.5  Hours: 3-0-0  Also: MECH 541  
Advanced Thermodynamics  
Note: Credit will be granted for only one of MECH 443, MECH 541.  
Prerequisite(s): MECH 390.

MECH 444  Units: 1.5  Hours: 3-0-1.5  
Wind Power Systems  
Note: Credit will be granted for only one of MECH 444, MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic), MECH 450C (if taken in the same topic), MECH 450D (if taken in the same topic), MECH 450E (if taken in the same topic), MECH 450F (if taken in the same topic).  
Prerequisite(s): All of MECH 242, MECH 330, MECH 345, CSC 349A.

MECH 445  Units: 1.5  Hours: 3-0-0  
Cryogenic Engineering  
Prerequisite(s): MECH 390 and MECH 395.

MECH 446  Units: 1.5  Hours: 3-0-1.5  Also: MECH 546  
Introduction to Ocean Engineering  
Note: Credit will be granted for only one of MECH 446, MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic), MECH 450C (if taken in the same topic), MECH 450D (if taken in the same topic), MECH 450E (if taken in the same topic), MECH 450F (if taken in the same topic).  
Prerequisite(s): All of MECH 242, MECH 330, MECH 345, CSC 349A.

MECH 447  Units: 1.5  Hours: 3-0-0  Also: MECH 542  
Energy Systems  
Characteristics of energy systems: evolution, energy currencies, energy sources, dynamics of energy systems. The role of storage: characteristics of storage technologies, analysis of storage impacts. Review of thermodynamic fundamentals and development of energy balance expression. Efficiency metrics, technoconomics, issues associated with the delivery of energy services such as sustainability, emissions, cost and energy intensity.  
Note: Credit will be granted for only one of MECH 447, MECH 542.  
Prerequisite(s): MECH 390 and MECH 395.

MECH 449  Units: 1.5  Hours: 3-0-0  
Fuel Cell Technology  
Prerequisite(s): MECH 240 and MECH 345.

MECH 450A  Units: 1.5  Hours: 3-0*-0*  Special Topics  
Presents material in an emerging field or one not covered in regular offerings. Some topics may require laboratory work as well as lectures. Entrance is restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
*Lab hours may vary depending on the topic.

Notes:  
• Credit will be granted for only one of MECH 450A, BME 401A (if taken in the same topic), BME 401B (if taken in the same topic), BME 401C (if taken in the same topic), BME 401D (if taken in the same topic), ECE 496A (if taken in the same topic), ECE 496B (if taken in the same topic), ECE 496C (if taken in the same topic), ECE 496D (if taken in the same topic), MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic).  
• May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s): Set by department depending upon topic.

MECH 450B  Units: 1.5  Hours: 3-0*-0*  Special Topics  
Presents material in an emerging field or one not covered in regular offerings. Some topics may require laboratory work as well as lectures. Entrance is restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
*Lab hours may vary depending on the topic.

Notes:  
• Credit will be granted for only one of MECH 450B, BME 401A (if taken in the same topic), BME 401B (if taken in the same topic), BME 401C (if taken in the same topic), BME 401D (if taken in the same topic), ECE 496A (if taken in the same topic), ECE 496B (if taken in the same topic), ECE 496C (if taken in the same topic), ECE 496D (if taken in the same topic), MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic).  
• May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s): Set by department depending upon topic.
**MECH 450C - Special Topics**

**Units:** 1.5  **Hours:** 3-0*-0*

**Special Topics**

Presents material in an emerging field or one not covered in regular offerings. Some topics may require laboratory work as well as lectures. Entrance is restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.

*Lab hours may vary depending on the topic*

**Prerequisite(s):** Set by department depending upon topic.

**MECH 450E - Special Topics**

**Units:** 1.5  **Hours:** 3-0*-0*

**Special Topics**

Presents material in an emerging field or one not covered in regular offerings. Some topics may require laboratory work as well as lectures. Entrance is restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.

*Lab hours may vary depending on the topic*

**Notes:**

- Credit will be granted for only one of MECH 450E, BME 401A (if taken in the same topic), BME 401B (if taken in the same topic), BME 401C (if taken in the same topic), BME 401D (if taken in the same topic), ECE 496A (if taken in the same topic), ECE 496B (if taken in the same topic), ECE 496C (if taken in the same topic), ECE 496D (if taken in the same topic), MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic), MECH 450C (if taken in the same topic), MECH 450D (if taken in the same topic), MECH 450E (if taken in the same topic), MECH 450F (if taken in the same topic).

- May be taken more than once for credit in different topics with permission of the department.

**Prerequisite(s):** Set by department depending upon topic.

**MECH 450D - Special Topics**

**Units:** 1.5  **Hours:** 3-0*-0*

Presents material in an emerging field or one not covered in regular offerings. Some topics may require laboratory work as well as lectures. Entrance is restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.

* Lab and tutorial hours may vary depending on the topic.

**Notes:**

- Credit will be granted for only one of MECH 450D, BME 401A (if taken in the same topic), BME 401B (if taken in the same topic), BME 401C (if taken in the same topic), BME 401D (if taken in the same topic), ECE 496A (if taken in the same topic), ECE 496B (if taken in the same topic), ECE 496C (if taken in the same topic), ECE 496D (if taken in the same topic), MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic), MECH 450C (if taken in the same topic), MECH 450D (if taken in the same topic), MECH 450E (if taken in the same topic).

- May be taken more than once for credit in different topics with permission of the department.

**Prerequisite(s):** Set by department depending upon topic.

**MECH 450F - Special Topics**

**Units:** 1.5  **Hours:** 3-0*-0*

**Special Topics**

Presents material in an emerging field or one not covered in regular offerings. Some topics may require laboratory work as well as lectures. Entrance is restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.

*Lab hours may vary depending on the topic*

**Notes:**

- Credit will be granted for only one of MECH 450F, BME 401A (if taken in the same topic), BME 401B (if taken in the same topic), BME 401C (if taken in the same topic), BME 401D (if taken in the same topic), ECE 496A (if taken in the same topic), ECE 496B (if taken in the same topic), ECE 496C (if taken in the same topic), ECE 496D (if taken in the same topic), MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic), MECH 450C (if taken in the same topic), MECH 450D (if taken in the same topic), MECH 450E (if taken in the same topic), MECH 450F (if taken in the same topic), MECH 450G (if taken in the same topic), MECH 450H (if taken in the same topic).

- May be taken more than once for credit in different topics with permission of the department.

**Prerequisite(s):** Set by department depending upon topic.

**MECH 455 - Instrumentation**

**Units:** 1.5  **Hours:** 3-1.5-1

**Overview of fundamental issues associated with measurement systems; response of 0th, 1st, and 2nd order systems, components in a measurement system, effects of digitization, sampling, aliasing, noise, quantization error. Frequency Response Function, voltage conversion, loading effects and filtering. Sensors and transducers for common physical measurements, including Optical techniques and sensors. Laboratories incorporate all elements of the lectures, with students designing and building complete measurement systems with digital acquisition.**

**Prerequisite(s):** All of MECH 285, MECH 320, MECH 330, MECH 380, MECH 395; and ECE 365 or ELEC 365.

**MECH 458 - Mechatronics**

**Units:** 1.5  **Hours:** 3-1*-0

**Also:** MECH 554

**Mechatronics**

Introduction to mechatronic systems; modelling of mixed mechatronic systems; microcontroller programming and interfacing; data acquisition; sensors and actuators; control architectures and case studies in mechatronics systems.

* Indicates a 2 hour laboratory taken by students on alternate weeks.

**Note:** Credit will be granted for only one of MECH 458, MECH 355, MECH 405, MECH 486, MECH 554.

**Prerequisite(s):**

- CSC 110 or CSC 111; and
- One of ECE 216, ELEC 216 or PHYS 216.

**MECH 459 - Fundamentals of Hybrid Vehicles**

**Units:** 1.5  **Hours:** 3-0-1

**Also:** MECH 558

**Fundamentals of Hybrid Vehicles**

Advance of hybrid electric vehicle (HEV) technology; power plants, electric propulsion systems, transmissions, and onboard energy storage systems; fuel cell vehicles; vehicle performance modelling and simulation using advanced vehicle powertrain modelling tools; design and optimization of HEV powertrain system; and HEV design case studies.

**Note:** Credit will be granted for only one of MECH 459, MECH 450A (if taken in the same topic) MECH 450B (if taken in the same topic), MECH 450C (if taken in the same topic), MECH 450D (if taken in the same topic), MECH 450E (if taken in the same topic).

**Prerequisite(s):** MECH 558

**MECH 460 - Computer-Aided Manufacturing**

**Units:** 1.5  **Hours:** 3-1.5*-1

**Computer-Aided Manufacturing**

Introduction to machining operations features of numerically controlled machine tools, and types of CNC programming. Manual part programming with G-codes, canned cycles, subprograms, and simulation program. NC machine tools and control and machine tool kinematics. CNC machining of curved surfaces, and surface machining strategies. Rapid prototyping or 3D printing. Machining mechanics and dynamics

**Prerequisite(s):**

- One of MECH 200, ENGR 150, ECE 299, ELEC 299; and
- One of ENGR 380 or ELEC 360.

**Pre- or Corequisite(s):** One of MECH 330, ECE 460, ELEC 460.

**MECH 462 - Small Business Startup and Organization**

**Units:** 1.5  **Hours:** 3-0-0

**Small Business Startup and Organization**

Development and analysis of business plans with applications to engineering. Principles of entrepreneurship and business startup; Business model canvas and strategy. Market research, analysis and building financial projections; Pivoting concept, and venture intelligence quotient. Modern finance and fundraising methods. Includes a significant team-based business-planning project, and final project presentation.

**Note:** Credit will be granted for only one of MECH 462, ENT 402.

**Prerequisite(s):** STAT 254 or STAT 260.

**Pre- or Corequisite(s):** One of ECON 103C, ECON 180, ENGR 280.

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**Course Listings MECH**
MECH 466 - MECH 497

MECH 466  Units: 1.5  Hours: 3-1-0
Microelectromechanical Systems
Principles of MEMS theory, design and fabrication. Topics include: scaling law principles; micro-mechanical structures for sensing and actuation; electrostatic, micro-thermal, piezoresistive, piezoelectric and micro-electromechanical devices; micro-fluidics; micro-optics; micro-assembly and packaging. Case studies of MEMS device operation and micro-fabrication.
* indicates four 3-hour labs.
Prerequisite(s):
• One of MECH 285, ECE 220, ELEC 220; and
• One of ECE 216, ELEC 216, PHYS 216; and
• ECE 250 or ELEC 250.

MECH 472  Units: 1.5  Hours: 3-0-0
Also: MECH 576
Introduction to Electron Microscopy
Note: Credit will be granted for only one of MECH 472, MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic).
Prerequisite(s): MECH 285.

MECH 473  Units: 1.5  Hours: 3-0-0
Also: MECH 573
Ferrous and Non-Ferrous Metals
Mechanical, thermal, electrical, photonic and magnetic properties of materials, the iron-carbon and iron-cementite phase diagrams, nucleation and growth of microstructural constituents, the martensite phase transformation, time-temperature-transformation (TTT) curves; properties affected by quenching, tempering and annealing; alloy additions; structural, high strength and speciality steels; welding; tools and stainless steels; cast iron; superalloys; copper, aluminum, magnesium and titanium alloys; metal matrix composites.
Note: Credit will be granted for only one of MECH 473, MECH 573.
Prerequisite(s): MECH 285.

MECH 475  Units: 1.5  Hours: 3-1-0
Airframe Design
Prerequisite(s): MECH 242 and MECH 345.

MECH 481  Units: 1.5  Hours: 3-0-0
Also: BME 481, MECH 515
Biomaterials and Tissue Engineering
Introduction to the types of biomaterials and their associated properties. Experimental characterization techniques including microscopy, detection of chemical compositions, protein adsorption and immunoreactivity. Methods for combining biomaterials with cells to engineer tissues.
Note: Credit will be granted for only one of MECH 481, MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic), MECH 450C (if taken in the same topic), MECH 450D (if taken in the same topic), MECH 450E (if taken in the same topic), MECH 450F (if taken in the same topic), MECH 515.
Prerequisite(s):
• MATH 200; and
• minimum third-year standing in the Biomedical Engineering or Computer Engineering or Civil Engineering or Electrical Engineering or Mechanical Engineering program.

MECH 483  Units: 1.5  Hours: 3-0-1
Also: MECH 510
Mechanics and Energy Conversion for Living Cells
Note: Credit will be granted for only one of MECH 483, MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic), MECH 450C (if taken in the same topic), MECH 450D (if taken in the same topic), MECH 450E (if taken in the same topic), MECH 450F (if taken in the same topic), MECH 515.

MECH 485  Units: 1.5  Hours: 3-0-0
Mechanism and Manipulator Synthesis
Prerequisite(s): MECH 335.
Pre- or Corequisite(s): CSC 349A.

MECH 492  Units: 1.5  Hours: 3-0-0
Transport Phenomena
Prerequisite(s): MECH 345 and MECH 395.

MECH 493  Units: 1.5  Hours: 3-0-0
Design of Thermo-Fluid Systems
An advanced design course in thermofluids systems. Groups of three or four students select project topics that involve the design of thermofluids systems such as power generation and refrigeration cycles, pump and piping systems, heat exchangers and heat exchanger networks, and air-conditioning and heating systems. Alternatively, students can propose their own projects in other areas of thermofluid systems.
Prerequisite(s): MECH 345 and MECH 395.

MECH 494  Units: 1.5  Hours: 3-1-0
Also: MECH 540
Formerly: MECH 392
Thermofluids and Introduction to Mass Transfer
Note: Credit will be granted for only one of MECH 494, MECH 392, MECH 540.
Prerequisite(s): MECH 345 and MECH 395.

MECH 495  Units: 1.5  Hours: 3-0-1
Also: MECH 535
Computational Fluid Dynamics and Heat Transfer
Methods of predictions and historical perspective; governing differential equations of heat transfer and fluid flow; finite difference methods; discretization schemes; application to heat conduction problems; introduction to control volume formulation for fluid flow and to turbulence modelling; accuracy and convergence considerations. Individual term projects using a CFD program.
Note: Credit will be granted for only one of MECH 495, MECH 535.
Prerequisite(s): MECH 345 and MECH 395.

MECH 497  Units: 3.0  Hours: 2-18-0
Green Vehicle Technology Project
General background of Hybrid Electric Vehicle (HEV) technologies; green vehicle technology training by industry experts; design using advanced modeling and simulation tools; design, analysis, prototyping and testing of vehicle subsystems or key components for green vehicle technology development. Each student will present a complete report at the end of the term, and make an oral presentation of the findings.
Notes:
• Credit will be granted for only one of MECH 497, MECH 498, MECH 499.
• Students who have participated in UVic EcoCAR/Green Vehicle team may request permission to register in the course.
• May only be taken once.
• Duration can be one or two terms.
Prerequisite(s):
• All of MECH 350, MECH 360, ENGR 002; and
• permission of the department.
Grading: INP, standard grade.
MECH 498  Units: 3.0  Hours: 2-18-0
Honours Thesis
The honours thesis provides an opportunity for selected students to carry out a major design or research project under the supervision of a faculty member. The project requires independent study of the current technical literature, and independent research or design work. Each student presents a complete report at the end of the term, and makes an oral presentation of the findings.
Notes:
•  Credit will be granted for only one of MECH 498, MECH 497, MECH 499.
•  May only be taken once.
Prerequisite(s):
•  ENGR 002; and
•  minimum GPA of 6.0 in all courses of the Year 3 Mechanical Engineering Program; and
•  permission of the department.
Grading: INP, standard grade.

MECH 499  Units: 1.5  Hours: 1-9-0
Technical Project
Provides an opportunity to carry out a design or research project of a technical level similar to 4th year electives, under the supervision of a faculty member. Requires independent study of current technical literature. When feasible, the design should be assessed in the laboratory. A complete report must be presented at the end of the term.
Notes:
•  Credit will be granted for only one of MECH 499, BME 490, MECH 497, MECH 498.
•  May be taken only once.
Prerequisite(s):
•  All of MECH 350, MECH 360, ENGR 002; and
•  permission of the department.

MEDI Medieval Studies
Medieval Studies Program
Faculty of Humanities

MEDI 100  Units: 1.5  Hours: 3-0-0
Entering the Middle Ages
A first contact with Medieval Studies organized as a thematic exploration of the variety of the Middle Ages through scholarship and through modern renderings and including guest lectures from various disciplines. Outlines both the multi-disciplinarity and the specific methodologies of the field, emphasizes academic and critical reflection on original material and encourages scholarly interpretation of modern renderings of the Middle Ages.

MEDI 200  Units: 1.5  Hours: 3-0-0
Myths and Legends of the Middle Ages
An introduction to selected myths and legends of the medieval world as represented in literature, art and architecture in one or more of the following traditions: Greco-Roman, Jewish, Christian, Islamic, Germanic, Celtic. Special attention given to material found in multiple traditions (e.g., stories of heroes such as Alexander, Arthur, or Morgan le Fay). May include medieval myths or the Middle Ages in film.

MEDI 210  Units: 1.5  Hours: 3-0-0
Voices from the Middle Ages
Medieval writers speak to us in many voices, and in many modes: male and female, ecclesiastical and secular, serious and comic or fantastic, prose and verse. A selection of medieval texts will be studied in English translation.
Note: May be taken more than once for credit in different topics to a maximum of 3 units.

MEDI 303  Units: 1.5  Hours: 3-0-0
The Medieval World
An interdisciplinary introduction to the Middle Ages through a comparative overview of medieval cultures and civilizations until about CE 1500, with a focus on the formation of medieval Christian Europe and its relations with Judaism, Byzantine Christianity and Islam. Both material and intellectual culture (e.g., architecture, art, music, literature) will be studied.
Prerequisite(s):
•  Minimum second-year standing; or
•  permission of the program.

MEDI 304  Units: 1.5  Hours: 3-0-0
Encountering the Middle Ages
An introduction to the interdisciplinary study of the medieval world and thus to Medieval Studies, through direct encounters with primary sources (objects, images, texts, music). Emphasizes the question of evidence in relation to interdisciplinary principles, methods and problems, involving where possible cross-cultural comparison.
Note: May be taken more than once for credit in different topics with permission of the program to a maximum of 3 units.
Prerequisite(s):
•  Minimum second-year standing; or
•  permission of the program.

MEDI 360  Units: 1.5  Hours: 3-0-0
Selected Topics in Medieval Culture
An interdisciplinary investigation of a selected topic in the evolution of medieval culture, with an emphasis to be placed on artistic, intellectual, or spiritual life of the time.
Note: May be taken more than once for credit in different topics to a maximum of 6 units.
Prerequisite(s):
•  Minimum second-year standing; or
•  permission of the program.

MEDI 401  Units: 1.5  Hours: 3-0-0
Seminar in Medieval Culture
An interdisciplinary investigation of a selected topic in the evolution of medieval culture, with an emphasis to be placed on the artistic, intellectual, or spiritual life of the time.
Note: May be taken more than once for credit in different topics to a maximum of 6 units.
Prerequisite(s):
•  Minimum second-year standing; or
•  permission of the program.

MEDI 402  Units: 1.5  Hours: 3-0-0
Cross-Cultural Encounters and Exchanges
An interdisciplinary investigation of significant cross-cultural encounters and exchanges in the medieval world, especially between East and West or northern European and Mediterranean cultures. Possible topics include: the Crusades; the Viking expansions; multi-culturalism in Spain or Italy; relations between eastern and western Christendoms; international trading relations; inter-relations of the medieval world and the Mongol Empire; the transmission of Arabic science and learning.
Note: May be taken more than once for credit in different topics to a maximum of 6 units.
Prerequisite(s):
•  Minimum second-year standing; or
•  permission of the program.
Recommendation(s): MEDI 303 or MEDI 304 recommended prior to MEDI 402.

MEDI 442  Units: 1.5  Hours: 3-0-0
Common Grounds in European Medieval Literature
Transcendence of national boundaries in literature and scholarship. Readings are modern English translations of Latin, Old French and Old/ Middle English texts representing common foundations in various genres.
Note: Credit will be granted for only one of MEDI 442, FRAN 432, FREN 442.

MEDI 451  Units: 1.5  Hours: 3-0-0
Reading, Writing and the Book in the Medieval World
A selective overview of the historical development of medieval media and communications practices and technology focusing especially on the manuscript book. Topics will normally include some of the following: the spread and consequences of literacy, orality and literacy, text and image, the formation of textual communities, the processes and sites of manuscript production, transmission and dissemination (manuscript scriptoria, universities, workshops, libraries), paleography, codicology and the shift from script to print.
Note: Credit will be granted for only one of MEDI 451, MEDI 450, ENGL 481 (if taken in the same topic).
Prerequisite(s):
•  Minimum third-year standing; or
•  permission of the program.

MEDI 452  Units: 1.5  Hours: 3-0-0
Special Topics in Medieval Manuscript Studies
A variable content course in which special topics relating to medieval manuscripts are pursued.
Note: May be taken more than once for credit in different topics with permission of the program to a maximum of 6 units.
Prerequisite(s):
•  Minimum third-year standing; or
•  permission of the program.

MEDI 490  Units: 1.5 or 3.0
Directed Studies
Notes:
•  May be taken more than once for credit to a maximum of 3 units.
•  Students majors in Medieval Studies in their final year may request permission to register in the course.
Prerequisite(s): Permission of the program.
MEDI 495 Units: 3.0
Field School in Medieval Studies
An experiential introduction to the Medieval world through its architecture, art, religion, philosophy and history, in varying medieval locations. Introductory lectures normally held on campus before departure; sojourns abroad with visits, lectures and workshops.
Note: Interested students should contact the program during the Sep-Dec term.
Prerequisite(s): Permission of the program.

MEDI 499 Units: 1.5 Hours: 3-0-0
Honours Graduating Essay
The graduating essay or project will be completed under the guidance of a faculty member.
Prerequisite(s):
• Minimum fourth-year standing; and
• declared Honours in Medieval Studies.

MEDS
Medical Science
Division of Medical Sciences

MEDS 410 Units: 1.5 Hours: 3-3-0
Functional Human Neuroanatomy
Examines the neuroanatomy of the brain and spinal cord, using specific case studies to elucidate our current understanding of brain-function relationships. The coursework is supplemented by an intensive laboratory component.
Prerequisite(s): Permission of the division.

MEDS 433 Units: 1.5 Hours: 3-0-0
Animals and Human Health
Emerging topics, current controversies and future directions at the intersection of animals, humans and the environment. Topics may include zoonotic diseases, environmental impact on animal and human health, research with animals, animals in service and entertainment, the human-animal bond, animals as sentinels for human and environmental health, animals as food and animals in culture.
Note: Credit will be granted for only one of MEDS 433, MEDS 487 (if taken in the same topic).
Prerequisite(s):
• 6.0 units of 300- or 400-level BIOL, EPHE, or MEDS courses; and
• a minimum sessional GPA of 6.5 on the most recent applicable session; and
• permission of the division.

MEDS 478 Units: 1.5 or 3.0 Hours: 3-0-0
Special Topics in Medical Sciences
Topics of current interest in medical science.
Note: May be taken more than once for credit in different topics with permission of the division.
Prerequisite(s):
• Permission of the division; and
• additional prerequisites set by the division depending upon topic.

MEDS 490 Units: 1.5 or 3.0 Hours: 3-0-0
Directed Studies in Medical Sciences
Research projects or directed readings.
Note: May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s): Permission of the division.

MICR
Microbiology
Department of Biochemistry and Microbiology
Faculty of Science

MICR 200A Units: 1.5 Hours: 3-2-0
Introductory Microbiology I
A broad introduction to the field of microbiology. Prokaryotic and eukaryotic cell structure and function; physiology and growth of microorganisms; control of microbial growth; viruses; molecular taxonomy of microorganisms.
Note: Credit will be granted for only one of MICR 200A, MICR 200B.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

MICR 200B Units: 1.5 Hours: 3-2-0
Introductory Microbiology II
A broad introduction to the field of microbiology. Microbial genetics and genomics; genetic engineering, biotechnology, and industrial microbiology; environmental and applied microbiology; immunology; infectious diseases.
Note: Credit will be granted for only one of MICR 200B, MICR 200A.
Prerequisite(s): MICR 200A.

MICR 302 Units: 1.5 Hours: 3-0-0
Molecular Microbiology
Genetic, genomic, biochemical and molecular approaches to studying the structure and function of microbial cells. Use of microbial systems as laboratory tools, and as model organisms for investigating biological processes. Emphasis on the application of experimental techniques to scientific problem solving.
Prerequisite(s):
• MICR 200A and MICR 200B; and
• BIOC 299 or BIOC 300A.

MICR 303 Units: 1.5 Hours: 3-0-0
Immunology
The generation of antibody diversity; immune effector mechanisms and their regulation; immunological principles as applied to research and medicine.
Note: Credit will be granted for only one of MICR 303, MICR 403.
Prerequisite(s): MICR 200A and MICR 200B.
Pre- or Corequisite(s): BIOC 299 or BIOC 300A.

MICR 402 Units: 1.5 Hours: 3-0-0
Virology
An advanced consideration of the molecular aspects of viruses. Emphasis will be placed on the animal viruses with respect to: infection process; replication cycle; interactions with the host cell; mechanisms of pathogenicity; vaccines. The course consists of lectures with additional literature reading and brief seminars by students.
Prerequisite(s): All of MICR 200A, MICR 200B, BIOC 300A, BIOC 300B.

MICR 405 Units: 1.5 Hours: 3-0-0
Biotechnology and Synthetic Biology
Covers laboratory-based research and applications of biotechnology and synthetic biology. Core topics include recombinant DNA technologies, next generation sequencing, bioinformatics, genome engineering approaches, in vitro antibody selection vaccine development, bio-prospecting, metabolic engineering, directed evolution, fermentation processes and biofuel production strategies.
Note: Credit will be granted for only one of MICR 405, BIOC 405.
Prerequisite(s): All of MICR 200A, MICR 200B, BIOC 300A, BIOC 300B.

MICR 408 Units: 1.5 Hours: 3-0-0
Microbial Pathogenesis
Bacterial pathogens; emphasis on molecular mechanisms of pathogenesis including antigenic variation, host cell parasitism, evasion of host immune defenses, and mimicry of eukaryotic structures.
Note: Credit will be granted for only one of MICR 408, MICR 301.
Prerequisite(s):
• MICR 302 or BIOC 361; and
• MICR 303 or BIOC 360; and
• BIOC 300A and BIOC 300B.

MICR 470 Units: 1.5 Hours: 3-0-0
Directed Studies in Microbiology
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
Prerequisite(s):
• Minimum fourth-year standing in a Biochemistry or Microbiology program; and
• minimum cumulative GPA of 5.0; or
• permission of the department.
Grading: INP; standard grade.
MRNE

Marine Science
Department of Biology
Faculty of Science

All the courses listed below are field-based courses offered at the Bamfield Marine Sciences Centre for upper level Biology credit.

MRNE 400
Units: 1.5 or 3.0
Directed Studies

Directed studies under the supervision of a member of faculty. Involves a research project approved by the supervisor in the field of interest of the student, and will be designed to take maximum advantage of the laboratory and/or field opportunities offered by the Bamfield Marine Sciences Centre.

Notes:
• A student may take up to a maximum of 3 units from MRNE 400, BIOL 490A, BIOL 490B, BIOL 490D, BIOL 490E, BIOL 490F, BIOL 490G, BIOL 490H, BIOL 490J.
• Pro Forma required
• May be counted toward the Concentration in Marine Biology if it has substantial marine content and with permission of the department.
• This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.

Prerequisite(s): BIOL 215
Recommendation(s): BIOL 307 recommended prior to MRNE 412

MRNE 401
Units: 1.5 or 3.0
Special Topics in Marine Biology

Offered, as opportunities arise, by distinguished scientists who are working at the Bamfield Marine Sciences Centre. It is expected that the course will generally be of a specialized nature and be at a level appropriate to graduate or senior undergraduate students.

Please visit www.bamfieldmsc.com for a current list of Special Topics courses.

Notes:
• May be taken more than once for credit in different topics.
• Permission of the department is required to count any topic toward the Marine Biology Concentration.
• This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.

MRNE 410
Units: 1.5 or 3.0
Marine Invertebrate Zoology

A survey of marine invertebrate phyla, with emphasis on the benthic fauna in the vicinity of the Bamfield Marine Sciences Centre. Includes lectures, laboratory periods, field collection, identification and observation. Emphasis is placed on the study of living specimens in the laboratory and in the field.

Notes:
• May be taken more than once for credit in different topics.
• This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.

MRNE 412
Units: 1.5 or 3.0
Biological of Marine Fishes

The taxonomic diversity, evolution, ecology and conservation of North Pacific fishes. Laboratory and field topics include fish identification, stable isotope methodologies, database design and statistical analyses, and collecting/fishing techniques. A student field research project is required.

Notes:
• Credit will be granted for only one of MRNE 412, BIOL 431, BIOL 431A (if taken prior to May 2011).
• This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.

Prerequisite(s): BIOL 215
Recommendation(s): BIOL 307 recommended prior to MRNE 412

MRNE 414
Units: 1.5 or 3.0
Coastal Biodiversity and Conservation

Current topics, concepts and practice in coastal conservation biology, with a focus on biodiversity within marine, intertidal and terrestrial ecosystems. In addition to course lectures and paper discussions, the course places an emphasis on student-led studies of the natural world. Independent student research projects include biodiversity surveys, assessments of anthropogenic impacts, and studies of coastal species, including a diversity of mammal, bird, invertebrate, and plant taxa.

Notes:
• Credit will be granted for only one of MRNE 414, MRNE 401 (if taken in the same topic).
• This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.

Prerequisite(s): BIOL 215
• minimum third-year standing.

MRNE 417
Units: 1.5
Crustacean Biology

The taxonomic diversity, ecology and morphological, behavioural and life-history adaptations of Crustaceans. Laboratory and field activities include Crustacean collection, identification and the terminology used in identification keys. A student field research project is required.

Notes:
• Credit will be granted for only one of MRNE 417, MRNE 401 (if taken in the same topic).
• This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.

Prerequisite(s):
• BIOL 215, and
• minimum third-year standing.

Recommendation(s): BIOL 321 or MRNE 410.

MRNE 418
Units: 1.5 or 3.0
Marine Behavioural Ecology

The diversity of behaviours exhibited by intertidal animals. Key concepts and principles of behavioural ecology based on observations in the field. Students carry out an extensive, multi-component, group-oriented research project with a focus on marine invertebrates.

Note: Credit will be granted for only one of MRNE 418, MRNE 401 (if taken in the same topic), MRNE 402 (if taken in the same topic).

Prerequisite(s): BIOL 215
Recommendation(s): STAT 255 or STAT 260, and a course in vertebrate or Invertebrate zoology recommended prior to MRNE 418.

MRNE 419
Units: 1.5
Subtidal Science

An introduction to the techniques and practical aspects of performing research underwater using SCUBA. The intensive practical component will introduce a diversity of sub-tidal research techniques. Students will learn to manage the logistical challenges associated with a subtidal research project. Lectures will provide theoretical background for the field techniques, including designing effective surveys, dealing with logistics and safety, and analyzing data.

Notes:
• Credit will be granted for only one of MRNE 419, MRNE 401 (if taken in the same topic).
• This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information. Permission from the department will be granted only if scuba diving qualifications are met prior to course registration.

Prerequisite(s):
• BIOL 215, STAT 255; and
• minimum third-year standing; and
• minimum of Rescue Diver qualification with at least 12 dives logged in the past year; and
• permission of the department.

Recommendation(s): BIOL 330.
MRNE 420 - Units: 1.5 or 3.0
Marine Phycology
A survey of the marine algae, with emphasis on the benthic forms, in the vicinity of the Bamfield Marine Sciences Centre. Includes lectures, laboratory periods, field collection, identification and observation. Emphasis is placed on the study of living specimens in the laboratory and in the field.
Note: This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.

MRNE 421 - Units: 1.5 or 3.0
Terrestrial and Freshwater Conservation
Modern theory and practice in conservation ecology as applied to terrestrial and freshwater habitats. Emphasis on field experience, supplemented by lectures including global biodiversity, ecosystem services, links between conservation and livelihoods, legislation protecting habitats and species, and local and global solutions. Independent research projects include biodiversity surveys, environmental impact assessments, and restoration techniques.
Note: Credit will be granted for only one of MRNE 421, MRNE 401 (if taken in the same topic), MRNE 402 (if taken in the same topic).
Prerequisite(s): BIOL 215.

MRNE 425 - Units: 1.5
Ecological Adaptations of Seaweeds
Morphological, physiological, genetic and reproductive adaptations of seaweeds to their natural and human-altered environments.
Note: This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.
Prerequisite(s): All of BIOL 215, BIOL 225, BIOL 230.

MRNE 430 - Units: 1.5 or 3.0
Marine Ecology
An analytical approach to biotic associations in the marine environment. Opportunities will be provided for study of the intertidal realm in exposed and protected areas and of beaches and estuaries in the vicinity of the Bamfield Marine Sciences Centre; plankton studies and investigations of the subtidal and benthic environments by diving and dredging are envisaged.
Notes:
• Credit will be granted for only one of MRNE 430, BIOL 406.
• This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.

MRNE 435 - Units: 1.5 or 3.0
Introduction to Biological Oceanography
An introduction to the biology of the oceans, with supporting coverage of relevant physics and chemistry. Emphasis will be placed on plankton biology, community structure and life histories, and influencing environmental factors. Collections will be made from sheltered inlets, through Barkley Sound to offshore waters. Involves both field and laboratory studies of plankton organisms.
Note: This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.

MRNE 437 - Units: 1.5
Marine Population Ecology and Dynamics
An analytical approach to the study of marine ecology and marine populations. Intertidal and subtidal communities will be examined, with emphasis on the biota of the Barkley Sound region.
Note: This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.
Prerequisite(s): All of BIOL 215, BIOL 225, BIOL 230.

MRNE 440 - Units: 1.5 or 3.0
Biology of Marine Birds
A study of the interrelationship of birds and the marine environment; the systematics and ecological relationships, behaviour, life histories, movement and conservation of marine birds; census techniques and methods of studying marine birds in the field will be treated utilizing seabirds and marine-associated birds in the Barkley Sound region. Seabird identification, classification, morphology, plumages and molt will be examined in the laboratory.
Notes:
• Students who have completed a course in Vertebrate Zoology may request permission to register in the course.
• This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.
Prerequisite(s): Permission of the department.

MRNE 475 - Units: 1.5
Applied Data Analysis in Marine Science
Principles of study design and data analysis illustrated by lecture material, current research and research seminars. Students will acquire experience using the statistical computing language R.
Note: This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.
Prerequisite(s): All of BIOL 215, BIOL 225, BIOL 230.

MUS 101B - Units: 1.5 Hours: 3.0-0
Language of Music
A continuation of 101A, focusing on four-part harmony and voice leading, and on the analysis of simple tonal compositions.
Prerequisite(s):
• MUS 101A, or
• permission of the school.

MUS 105 - Units: 2.0 Hours: 2.0-0
Introduction to Composition
Designed to enhance one's understanding of and development in compositional systems, processes and techniques through written exercises and assignments related to 20th century musical idioms.
Note: Open to all students.

MUS 108 - Units: 1.5 Hours: 3.0-0
African Hand Drumming
Hands-on introduction to African drumming and percussion. Instruments include drums, bells, shakers and xylophones. No prior playing experience necessary; all instruments are provided.
Notes:
• Credit will be granted for only one of MUS 108, MUS 208 (if taken in the same topic).
• Not open to BMus students and cannot be used as a music elective.

MUS 109 - Units: 1.5 Hours: 3.0-0
Great Film Music
From Jaws to Jedi; Batman to Bond, Great Film Music examines the role of music in American movies from the 1930s to present day. The course will help students develop an awareness of the impact and intent of music in relation to film. Open to all students.
Note: Credit will be granted for only one of MUS 109, MUS 391 (if taken in the same topic).

MUS 111 - Units: 1.5 Hours: 3.0-0
Rudiments of Music
An introduction to the rudiments of music, including pitch and rhythmic notation, basic harmonic language, and a study of the elementary principles of melodic writing and harmony.
Notes:
• Not open to students registered in or with credit in any of MUS 100, MUS 100A, MUS 101A, MUS 101B.
• No background in music required.

MUS 116 - Units: 1.5 Hours: 3.0-0
Music Appreciation
A historical music survey focused on terminology, composers and styles, and critical listening skills.
Note: Credit will be granted for only one of MUS 116, MUS 110, MUS 110A, MUS 110B, MUS 115, MUS 120A, MUS 120B.

MUS 121 - Units: 1.5 Hours: 3.0-0
Western Music from Antiquity to 1750
The development of Western music from notated beginnings.
Note: Credit will be granted for only one of MUS 121, MUS 120A, MUS 120B.
Prerequisite(s):
• MUS 115 or MUS 116, or
• permission of the department.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Title</th>
<th>Description</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 131</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Introduction to Music Education</td>
<td>For students who are considering pursuing a BMus in Secondary Music Education. Orientation to the profession; an introduction to the role of music education in society.</td>
<td>Note: Credit will be granted for only one of MUS 131, ME 101.</td>
</tr>
<tr>
<td>MUS 140</td>
<td>2.0</td>
<td>0-1-0</td>
<td>Individual Tuition</td>
<td>Lessons in instrument or voice.</td>
<td></td>
</tr>
<tr>
<td>MUS 142</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Lyric Diction</td>
<td>A study of the basic phonetics and accepted principles of lyric diction of the most commonly used languages in concert and operatic repertoire: Italian, French, German, English. Emphasis on performance.</td>
<td></td>
</tr>
<tr>
<td>MUS 143</td>
<td>1.0</td>
<td>0-0-5-0</td>
<td>Individual Tuition: Secondary area</td>
<td>Lessons in a secondary instrument, voice, or conducting, in exceptional cases.</td>
<td>Note: Credit will be granted for only four of MUS 143, MUS 141A, MUS 141B, MUS 141C, MUS 141D, MUS 141E, MUS 141F.</td>
</tr>
<tr>
<td>MUS 170A</td>
<td>1.0</td>
<td>2-1-0</td>
<td>Basic Musicianship IA</td>
<td>Beginning sight-singing, dictation and corresponding keyboard skills.</td>
<td>Notes:</td>
</tr>
<tr>
<td>MUS 170B</td>
<td>1.0</td>
<td>2-1-0</td>
<td>Basic Musicianship IB</td>
<td>Continuation of MUS 170A.</td>
<td>Notes:</td>
</tr>
<tr>
<td>MUS 180A</td>
<td>2.0</td>
<td>0-5-0</td>
<td>University Orchestra</td>
<td>Rehearses and performs orchestral repertoire from the Baroque to the present.</td>
<td>Notes:</td>
</tr>
<tr>
<td>MUS 180B</td>
<td>2.0</td>
<td>0-5-0</td>
<td>University Wind Symphony</td>
<td>Rehearses and performs advanced repertoire for winds, brass and percussion.</td>
<td>Notes:</td>
</tr>
<tr>
<td>MUS 180C</td>
<td>2.0</td>
<td>0-3-0</td>
<td>Don Wright Symphonic Winds</td>
<td>Rehearses and performs intermediate level repertoire for winds, brass and percussion.</td>
<td>Notes: Credit will be granted for only one of MUS 180C, MUS 180. Open to all students.</td>
</tr>
<tr>
<td>MUS 180D</td>
<td>2.0</td>
<td>0-3-0</td>
<td>Jazz and Creative Music Ensemble</td>
<td>Rehearses and performs music with emphasis on community and collaboration, including jazz, improvisation and soundtracks for silent film.</td>
<td>Notes: Credit will be granted for only one of MUS 180D, MUS 180. Open to all students.</td>
</tr>
<tr>
<td>MUS 180E</td>
<td>2.0</td>
<td>0-3-0</td>
<td>University Chorus</td>
<td>A large SATB choral ensemble that rehearses and performs a varied repertoire for mixed choir and choral/orchestra works.</td>
<td>Notes: Credit will be granted for only one of MUS 180E, MUS 180. Open to all students.</td>
</tr>
<tr>
<td>MUS 180F</td>
<td>2.0</td>
<td>0-3-0</td>
<td>Chamber Singers</td>
<td>A select SATB choral ensemble performing both standard and lesser-known choral repertoire from a wide spectrum of composers and styles.</td>
<td>Notes: Credit will be granted for only one of MUS 180F, MUS 180. Open to all students. Previous choral experience and strong music skills are required.</td>
</tr>
<tr>
<td>MUS 180G</td>
<td>2.0</td>
<td>0-3-0</td>
<td>University Women's Choir</td>
<td>A choral ensemble that rehearses and performs varied repertoire for women's voices.</td>
<td>Notes: Credit will be granted for only one of MUS 180G, MUS 180. Open to all students.</td>
</tr>
<tr>
<td>MUS 181</td>
<td>1.0</td>
<td>0-3-0</td>
<td>Chamber Music</td>
<td>Ensembles include the standard chamber groups as well as New Music Ensemble (Sonic Lab), Opera Ensemble, Brass Choir, Vocal Jazz and Collaborative Piano.</td>
<td></td>
</tr>
<tr>
<td>MUS 189</td>
<td>1.5</td>
<td>0-3-0</td>
<td>Vikes Band</td>
<td>An ensemble that rehearses and performs at Vikes Varsity events at the Centre for Athletics, Recreation and Special Abilities (CARS&amp;A), and select special events on campus.</td>
<td>Notes: Open to all students. Students should have a basic ability to play a band instrument, and must supply their own instrument or rent one.</td>
</tr>
<tr>
<td>MUS 189A</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Language of Music</td>
<td>The structural principles, harmonic and contrapuntal practices of tonal music of the 18th century explored through analysis and composition.</td>
<td>Prerequisite(s): Credit of MUS 101. or permission of the school.</td>
</tr>
<tr>
<td>MUS 189B</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Language of Music</td>
<td>A continuation of 201A. The structural principles, harmonic and contrapuntal practices of tonal music of the 19th century explored through analysis and composition.</td>
<td>Prerequisite(s): Credit of MUS 201A. or permission of the school.</td>
</tr>
<tr>
<td>MUS 189C</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Music Composition I</td>
<td>Individual and class lessons with members of the Music Composition faculty. Compositions for solo and small ensembles. Attendance required at Composition Master Class Seminar.</td>
<td>Prerequisite(s): Admission to BMus program in Composition and Theory.</td>
</tr>
<tr>
<td>MUS 189D</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Music, Science and Computers</td>
<td>An investigation into the historical relationships among music, science and technology, leading to current possibilities in computers and music. Focuses on the use of computers in music composition, analysis and synthesis of sound. Open to all students.</td>
<td>Recommendation(s): Some musical and/or mathematical background extremely recommended.</td>
</tr>
<tr>
<td>MUS 189E</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Popular Music and Society I</td>
<td>Topic varies and may include music for the cinema, folk music, rock music, the blues, or a specific performer or group.</td>
<td>Notes: May be taken more than once for credit in different topics with permission of the department to a maximum of 6 units. Not open to BMus students and cannot be used as a music elective.</td>
</tr>
<tr>
<td>MUS 205</td>
<td>3.0</td>
<td>2-1-0</td>
<td>Music, Science and Computers</td>
<td>An investigation into the historical relationships among music, science and technology, leading to current possibilities in computers and music. Focuses on the use of computers in music composition, analysis and synthesis of sound. Open to all students.</td>
<td>Recommendation(s): Some musical and/or mathematical background extremely recommended.</td>
</tr>
<tr>
<td>MUS 207</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Topics in Applied Music I</td>
<td>Topic varies and may include recording and production techniques, the art of performing, commercial music and other related subjects.</td>
<td>Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.</td>
</tr>
</tbody>
</table>
MUS 220A  Units: 1.5  Hours: 3-0-0  
Western Music from 1750 to 1885  
The development of Western Music and related contexts in history.  
Note: Credit will be granted for only one of MUS 220A, MUS 110, MUS 110B, MUS 313A, MUS 313B.  
Prerequisite(s):  
• one of MUS 115, MUS 116, MUS 120A, MUS 120B; or  
• permission of the department.

MUS 220B  Units: 1.5  Hours: 3-0-0  
Western Music from 1885 to 1952  
The development of Western Music and related contexts in history.  
Note: Credit will be granted for only one of MUS 220B, MUS 110, MUS 110B, MUS 313A, MUS 313B.  
Prerequisite(s):  
• MUS 220A; or  
• permission of the School.

MUS 231  Units: 1.5  Hours: 3-0-0  
Formerly: ME 201  
Music Education Seminar I: Foundations of Music Education  
A study of the historical, philosophical, sociological, psychological, and curricular foundations of music education.  
Note: Credit will be granted for only one of MUS 231, ME 201;  
Pre- or Corequisite(s): MUS 131 or ME 101.

MUS 237  Units: 1.5  Hours: 3-1-0  
Formerly: ME 207  
Music in the Elementary School Curriculum  
A study of programs and materials for elementary schools.  
Notes:  
• Credit will be granted for only one of MUS 237, ME 207, ME 403;  
• Includes a K-7 school field experience normally during Reading Break.

MUS 239  Units: 1.5  Hours: 3-0-0  
Formerly: ME 209A  
Instrumental/Vocal Jazz Pedagogy  
Instrumental and vocal jazz pedagogy in music education. Emphasis will be on practical experience.  
Note: Credit will be granted for only one of MUS 239, ME 120, ME 121, ME 209A, ME 220, ME 221.

MUS 240  Units: 2.0  Hours: 0-1-0  
Individual Tuition  
Lessons in instrument or voice.  
Note: Credit will be granted for only one of MUS 240, MUS 245.

MUS 245  Units: 3.0  Hours: 1-1-0  
Seminar in Performance  
Individual tuition and weekly class including discussion of repertoire, pedagogy, and techniques of ensemble performance.  
Note: Credit will be granted for only one of MUS 245, MUS 240.  
Prerequisite(s): Admission to BMus program in Performance.

MUS 256A  Units: 1.5  Hours: 3-0-0  
Introduction to Instrumental and Choral Conducting I  
Emphasis on school based repertoire.  
Prerequisite(s):  
• All of MUS 101A, MUS 101B, MUS 170A, MUS 170B; or  
• permission of the school.

MUS 256B  Units: 1.5  Hours: 3-0-0  
Introduction to Instrumental and Choral Conducting II  
Continuation of 256A.  
Prerequisite(s):  
• MUS 256A; or  
• permission of the school.

MUS 270A  Units: 1.0  Hours: 2-1-0  
Basic Musicianship IIA  
A continuation of MUS 170B.  
Notes:  
• Credit will be granted for only one of MUS 270A, MUS 270.  
• Normally taken concurrently with MUS 210A.  
Prerequisite(s):  
• MUS 101B or permission of the school; and  
• MUS 170B.

MUS 270B  Units: 1.0  Hours: 2-1-0  
Basic Musicianship IIB  
A continuation of MUS 270A.  
Notes:  
• Credit will be granted for only one of MUS 270B, MUS 270.  
• Normally taken concurrently with MUS 210B.  
Prerequisite(s): MUS 270A.

MUS 280A  Units: 2.0  Hours: 0-5-0  
Formerly: MUS 280  
University Orchestra  
Rehearses and performs orchestral repertoire from the Baroque to the present.  
Notes:  
• Credit will be granted for only one of MUS 280A, MUS 280.  
• Open to all students by audition.

MUS 280B  Units: 2.0  Hours: 0-5-0  
Formerly: MUS 280  
University Wind Symphony  
Rehearses and performs advanced repertoire for winds, brass and percussion.  
Notes:  
• Credit will be granted for only one of MUS 280B, MUS 280.  
• Open to all students by audition.

MUS 280C  Units: 2.0  Hours: 0-3-0  
Formerly: MUS 280  
Don Wright Symphonic Winds  
Rehearses and performs intermediate level repertoire for winds, brass and percussion.  
Notes:  
• Credit will be granted for only one of MUS 280C, MUS 280.  
• Open to all students.

MUS 280D  Units: 2.0  Hours: 0-3-0  
Formerly: MUS 280  
Jazz and Creative Music Ensemble  
Rehearses and performs music with an emphasis on community and collaboration, including jazz, improvisation and soundtracks for silent film.  
Notes:  
• Credit will be granted for only one of MUS 280D, MUS 280.  
• Open to all students by audition.  
Prerequisite(s): Permission of the department.

MUS 280E  Units: 2.0  Hours: 0-3-0  
Formerly: MUS 280  
University Chorus  
A large SATB choral ensemble that rehearses and performs a varied repertoire for mixed choir and choral/orchestra works.  
Notes:  
• Credit will be granted for only one of MUS 280E, MUS 280.  
• Open to all students.

MUS 280F  Units: 2.0  Hours: 0-3-0  
Formerly: MUS 280  
Chamber Singers  
A select SATB choral ensemble performing both standard and lesser-known choral repertoire from a wide spectrum of composers and styles.  
Notes:  
• Credit will be granted for only one of MUS 280F, MUS 280.  
• Open to all students by audition.  
• Previous choral experience and strong music skills are required.

MUS 280G  Units: 2.0  Hours: 0-3-0  
Formerly: MUS 288  
University Women’s Choir  
A choral ensemble that rehearses and performs varied repertoire for women’s voices.  
Notes:  
• Credit will be granted for only one of MUS 280G, MUS 288.  
• Open to all students by audition.

MUS 281  Units: 1.0  Hours: 0-3-0  
Chamber Music  
Ensembles include the standard chamber groups as well as New Music Ensemble (Sonic Lab), Opera Ensemble, Brass Choir, Vocal Jazz and Collaborative Piano.

MUS 289  Units: 1.5  Hours: 0-3-0  
Vikes Band  
An ensemble that rehearses and performs at Vikes Varsity events at the Centre for Athletics, Recreation and Special Abilities (CARSA), and select special events on campus.  
Notes:  
• Open to all students.  
• Students should have a basic ability to play a band instrument, and must supply their own instrument or rent one.

MUS 301A  Units: 1.5  Hours: 3-0-0  
Language of Music  
### MUS 301B - MUS 335

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Hours</th>
<th>Notes/Prerequisites</th>
</tr>
</thead>
</table>
| **Language of Music** | 3-0-0 | 1.5 | A continuation of 301A. History, theory and practice of 20th-century music: 1945-present.
| **Prerequisite(s):** | | | • MUS 301A; or • permission of the school. |
| **MUS 305** | 3.0 | 2-1-0 | Individual and class lessons with members of the Music Composition faculty. Compositions for solo, small and large ensembles. Note: Attendance required at Master Class Seminar. **Prerequisite(s):** • MUS 205; and • admission to BMus program in Composition and Theory; or • permission of the school. |
| **Music Composition II** | 3-0-0 | 1.5 | Sound Recording Techniques **Introduction to the theory and practice of sound recording and audio technology, including microphones, mixers and other studio components. Also introduces the use of computers in modern studio recording and processing. Practical work includes recording sessions and work in a studio.** **Prerequisite(s):** • MUS 207; or • permission of the school. |
| **MUS 306** | 2-0-1.5 | 1.5 | Topics in Applied Music II **A continuation of 209. Topics may include song writing, film scoring, making and selling your own music and other related subjects.** **Notes:** • May be taken more than once for credit to a maximum of 3 units. • Some topics may be eligible for credit in the BMus program. Students should consult the School. |
| **MUS 307** | 3-0-0 | 1.5 | Introduction to Computer Music **Introduction to electroacoustic and computer music. Practical experience in a computer music studio, with synthesizers, samplers, MIDI, digital audio, musique concrète, Max/MSP and other computer music techniques.** **Prerequisite(s):** • MUS 207; or • permission of the school. |
| **MUS 308** | 3-0-0 | 1.5 | Popular Music and Society II **The topic of the course will vary in different years, and may include intensive studies of music for the cinema, folk music, rock music, the blues, or a specific performer or group.** **Notes:** • May be taken more than once for credit in different topics with permission of the school to a maximum of 3 units. • Not for credit in the BMus program. |
| **MUS 309** | 3-0-0 | 1.5 | Topics in Applied Music II **A continuation of 209. Topics may include song writing, film scoring, making and selling your own music and other related subjects.** **Notes:** • May be taken more than once for credit to a maximum of 3 units. • Some topics may be eligible for credit in the BMus program. Students should consult the School. |
| **MUS 30A** | 3-0-0 | 1.5 | History of Rock and Roll **Explores the origins and cultural contexts of rock and roll from Delta blues to the punk scene. No background in music is required.** **Notes:** • Credit will be granted for only one of MUS 30A, MUS 308 (if taken in the same topic). • Not open to BMus students and cannot be used as a music elective. |
| **MUS 30B** | 3-0-0 | 1.5 | The Beatles **Examines the rise to fame of The Beatles in the cultural and political contexts of the 1960s. No background in music is required.** **Notes:** • Credit will be granted for only one of MUS 30B, MUS 308 (if taken in the same topic). • Not open to BMus students and cannot be used as a music elective. |
| **MUS 30C** | 3-0-0 | 1.5 | Indigenous Peoples and Music **An introduction to sounds and music of Indigenous Peoples with particular emphasis upon cultural identities, colonization and revitalization. Includes examples from around the world.** **Notes:** • Credit will be granted for only one of MUS 30C, MUS 391 (if taken in the same topic). • Open to all students. |
| **MUS 30D** | 3-0-0 | 1.5 | Music and Culture of Cuba **An examination of Cuba’s vast variety of folkloric, popular, religious and classical music, including music of Spain, Europe and West Africa. In addition we survey the influence that Cuba has had on popular music around the world. This course also serves as an introduction to the field of ethnomusicology and its approach to cultural studies.** **Notes:** • Credit will be granted for only one of MUS 30D, MUS 320 (if taken in the same topic). • Open to all students. |
| **MUS 30E** | 3-0-0 | 1.5 | Topics in World Music **Notes:** • Credit will be granted for only two of MUS 320, MUS 320A, MUS 320B, MUS 320C. • May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units. • Open to all students. |
| **MUS 30F** | 3-0-0 | 1.5 | A Composer’s Style and Music **A study of works of a major composer in the period from the 15th to 20th centuries. Emphasis will be placed on analysis, style and performance practice.** **Notes:** • May be taken more than once for credit in different topics. **Prerequisite(s):** • MUS 101B; and • one of MUS 115, MUS 116, MUS 121, MUS 120B; or • permission of the school. |
| **MUS 30G** | 3-0-0 | 1.5 | Forms and Genres in Music **The study of a single musical form or genre, for example, opera, symphony, sonata.** **Note:** May be taken more than once for credit in different topics. **Prerequisite(s):** • MUS 101B; and • one of MUS 115, MUS 116, MUS 121, MUS 120B; or • permission of the school. |
| **MUS 30H** | 3-0-0 | 1.5 | Music in Canada **The history of music in Canada from the time of Cartier (1534) to the present.** **Prerequisite(s):** • MUS 101B; and • one of MUS 115, MUS 116, MUS 121, MUS 120B; or • permission of the school. |
| **MUS 30I** | 3-0-0 | 1.5 | The History of Jazz **A survey of the development and growth of jazz with emphasis on the major stylistic periods, the principal soloists and composers, and the great recorded performances.** **Notes:** • Credit will be granted for only two of MUS 30I, MUS 320A, MUS 320C. • Open to all students. |
| **MUS 30J** | 3-0-0 | 1.5 | Keyboard Literature: 1500-1820 **A survey of the basic literature of the keyboard from 1500 to 1820, with special attention to its place in Western music and culture.** **Note:** Open to all students. |
| **MUS 30K** | 3-0-0 | 1.5 | Keyboard Literature: 1820 to the Present **A survey of the basic literature of the keyboard from 1820 to the present, with special attention to its place in Western music and culture.** **Note:** Open to all students. |
| **MUS 30L** | 3-0-0 | 1.5 | Brasses **Group instruction in playing orchestral brass instruments.** |
| **MUS 30M** | 3-0-0 | 1.5 | Woodwinds **An introduction to the pedagogy of teaching woodwind instruments.** |
| **MUS 30N** | 3-0-0 | 1.5 | Percussion **Group instruction in playing orchestral percussion instruments.** |
| **MUS 30O** | 3-0-0 | 1.5 | Singing for the Stage **Technical vocal instruction with application to theatre solos and ensembles. Includes preparation for auditions using fully-staged material. Although this is an introductory course, it is not a beginner’s course. A background in theatre is recommended.** **Notes:** • May be taken more than once for credit to a maximum of 6 units. |
MUS 336 - MUS 380E

MUS 336  Units: 1.5  Hours: 1-1-0
Strings: Techniques and Mentoring
An introduction to the pedagogy of teaching string techniques in violin and cello.
Notes:
- May be taken more than once for credit to a maximum of 3 units.
- Includes mandatory school experience.
Recommendation(s): Recommended for music majors whose primary instrument is a stringed instrument.

MUS 337  Units: 1.5  Hours: 3-0-0
Formerly: ME 307
Music in the Middle School Curriculum
A study of programs and materials for middle schools. Some school experience will be required.
Note: Credit will be granted for only one of MUS 337, ME 301, ME 307.
Prerequisite(s):
- MUS 231 or ME 201; and
- Admission to Major in Music Education Secondary (Choral or Instrumental).

MUS 339A  Units: 1.5  Hours: 3-0-0
Formerly: ME 309A
Instrumental Techniques for Middle and Secondary Schools
Practical introductory level instrumental ensemble experience (band/strings). Emphasis will be on beginning instrumental methods and techniques.
Note: Credit will be granted for only one of MUS 339A, ME 216, ME 309A.
Prerequisite(s):
- MUS 231 or ME 201; and
- Admission to BMus program in Secondary Education.

MUS 339B  Units: 1.5  Hours: 3-1-0
Formerly: ME 309B
Choral Techniques for Middle and Secondary Schools
Practical introductory level choral ensemble experience. Emphasis will be on beginning choral methods and techniques.
Notes:
- Credit will be granted for only one of MUS 339B, ME 216, ME 309B.
- Includes a Grade 8-12 school choral field experience normally during Reading Break.
Prerequisite(s):
- MUS 231 or ME 201; and
- Admission to BMus program in Secondary Education.

MUS 340  Units: 2.0  Hours: 0-1-0
Individual Tuition
Lessons in instrument or voice.
Note: Credit will be granted for only one of MUS 340, MUS 345.
Prerequisite(s): MUS 240.

MUS 345  Units: 4.0  Hours: 2-1-0
Seminar in Performance
Individual tuition, integrated performance seminar, and weekly master class including discussion of repertoire, pedagogy, and techniques of performance.
Note: Credit will be granted for only one of MUS 345, MUS 340.
Prerequisite(s):
- MUS 240 or MUS 245; and
- Admission to BMus program in Performance.

MUS 348  Units: 1.5  Hours: 3-0-0
Formerly: MUS 347A, MUS 347B
Improvisation
Performance-based course. Investigates the association between improvisation and composition.
Note: Credit will only be granted for one of MUS 348, MUS 347A, MUS 347B.
Recommendation(s): MUS 111 recommended prior to MUS 348.

MUS 350A  Units: 1.5  Hours: 3-0-0
Orchestration
Study of instrumentation and orchestraing.
Prerequisite(s):
- MUS 201B and MUS 220A; or
- Admission to BMus program in Secondary Education.

MUS 350B  Units: 1.5  Hours: 3-0-0
Orchestration
A continuation of 350A.
Prerequisite(s): MUS 350A.

MUS 351  Units: 1.5  Hours: 2-1-0
Jazz Arranging
The study of basic techniques applicable to arranging/orchestrating for jazz ensembles.
Prerequisite(s):
- MUS 201B; or
- Admission to BMus program in Secondary Education.

MUS 352  Units: 1.5  Hours: 2-1-0
Introduction to Film Scoring and Sound Design
Workshop assignments in composing and structuring original soundtracks and sound design for film and plays. The screenplay as a narrative guide for orchestration, timing and pace, and character development through musical devices will be explored through exercises.
Note: This course is an elective, open to both music and non-music students.
Prerequisite(s):
- Minimum second-year standing; and
- Admission to BMus program in Secondary Education.
Corequisite(s):
- One of MUS 204, MUS 304, MUS 404, MUS 205, MUS 305, MUS 405.
Recommendation(s): MUS 105, or MUS 101A and MUS 101B highly recommended prior to MUS 352.

MUS 356A  Units: 1.5  Hours: 3-0-0
Basic Conducting
Fundamental conducting techniques as applied to instrumental and vocal music.
Prerequisite(s):
- MUS 201B; and
- Admission to BMus program in Performance.

MUS 356B  Units: 1.5  Hours: 3-0-0
Basic Conducting
A continuation of 356A.
Prerequisite(s):
- MUS 356A; or
- Permission of the school.

MUS 365  Units: 1.5  Hours: 3-0-0
History of the Guitar
A survey of the basic literature of the classical guitar from 1790 to the present, with special attention to the guitar's role in Western music and culture as an accompanying, ensemble and solo vehicle.

MUS 380A  Units: 2.0  Hours: 0-5-0
Formerly: MUS 380
University Orchestra
Rehearses and performs orchestral repertoire from the Baroque to the present.
Notes:
- Credit will be granted for only one of MUS 380A, MUS 380.
- Open to all students by audition.

MUS 380B  Units: 2.0  Hours: 0-5-0
Formerly: MUS 380
University Wind Symphony
Rehearses and performs advanced repertoire for winds, brass and percussion.
Notes:
- Credit will be granted for only one of MUS 380B, MUS 380.
- Open to all students by audition.

MUS 380C  Units: 2.0  Hours: 0-3-0
Formerly: MUS 380
Don Wright Symphonic Winds
Rehearses and performs intermediate level repertoire for winds, brass and percussion.
Notes:
- Credit will be granted for only one of MUS 380C, MUS 380.
- Open to all students by audition.

MUS 380D  Units: 2.0  Hours: 0-3-0
Formerly: MUS 380
Jazz and Creative Music Ensemble
Rehearses and performs music with an emphasis on community and collaboration, including jazz, improvisation and soundtracks for silent film.
Notes:
- Credit will be granted for only one of MUS 380D, MUS 380.
- Open to all students by audition.

MUS 380E  Units: 2.0  Hours: 0-3-0
Formerly: MUS 380
University Chorus
A large SATB choral ensemble that rehearses and performs a varied repertoire for mixed choir and choral/orchestra works.
Notes:
- Credit will be granted for only one of MUS 380E, MUS 380.
- Open to all students.

MUS 380F  Units: 2.0  Hours: 0-3-0
Formerly: MUS 380
History of the Guitar
A survey of the basic literature of the classical guitar from 1790 to the present, with special attention to the guitar's role in Western music and culture as an accompanying, ensemble and solo vehicle.

MUS 380G  Units: 2.0  Hours: 0-3-0
Formerly: MUS 380
University Orchestra
Rehearses and performs orchestral repertoire from the Baroque to the present.
Notes:
- Credit will be granted for only one of MUS 380G, MUS 380.
- Open to all students by audition.

MUS 380H  Units: 2.0  Hours: 0-3-0
Formerly: MUS 380
University Wind Symphony
Rehearses and performs advanced repertoire for winds, brass and percussion.
Notes:
- Credit will be granted for only one of MUS 380H, MUS 380.
- Open to all students by audition.
## MUS 380G - University Women's Choir

**Units:** 2.0  
**Hours:** 0-3-0  
**Formerly:** MUS 388  
**Notes:**  
- Credit will be granted for only one of MUS 380G, MUS 388.  
- Open to all students by audition.

## MUS 381 - Chamber Music

**Units:** 1.0  
**Hours:** 0-3-0  
**Ensembles include the standard chamber groups as well as New Music Ensemble (Sonic Lab), Opera Ensemble, Brass Choir, Vocal Jazz and Collaborative Piano.**

## MUS 389 - Vikes Band

**Units:** 1.5  
**Hours:** 0-3-0  
**An ensemble that rehearses and performs at Vikes Varsity events at the Centre for Athletics, Recreation and Special Abilities (CARSA), and select special events on campus.**

## MUS 390 - Special Studies

**Units:** 1.5  
**Hours:** 3-0-0  
**With the consent of the School, a student who has demonstrated a capacity for independent work may undertake an individual project.**

## MUS 391 - Cross-Cultural and Historical Topics in Music

**Units:** 1.5  
**Hours:** 3-0-0  
**Topics may include: issues in music history, world music, music and society or cross-disciplinary perspectives. No prerequisites. Open to music and non-music students.**

## MUS 398 - Music Research I

**Units:** 1.5  
**Hours:** 3-0-0  
**Training in musico-logical research and writing, resulting in a substantial final project.**

## MUS 401A - Topics in Analysis

**Units:** 1.5  
**Hours:** 3-0-0  
**Topics include a particular analytical approach (e.g., Rameau, Schenker) and its applications to a variety of music.**

## MUS 401B - Baroque Counterpoint

**Units:** 1.5  
**Hours:** 3-0-0  
**The contrapuntal language of J.S. Bach, his contemporaries and immediate predecessors, explored through writing and analysis.**

## MUS 401C - Acoustics of Music

**Units:** 1.5  
**Hours:** 3-0-0  
**The physics of musical sound and the acoustics of musical instruments.**

## MUS 401D - Jazz Theory

**Units:** 1.5  
**Hours:** 3-0-0  
**Theoretical aspects of jazz, including its harmonic and formal characteristics.**

## MUS 405 - Music Composition III

**Units:** 3.0  
**Hours:** 2-1-0  
**Individual lessons with members of the Music Composition faculty. Majors will complete and have performed a graduating work of advanced and significant scope.**

## MUS 406A - Advanced Sound Recording Techniques

**Units:** 1.5  
**Hours:** 2-2-0  
**Advanced study of the theory and practice of sound recording and audio technology, studio techniques and procedures.**

## MUS 406B - Sound Recording Seminar

**Units:** 1.5  
**Hours:** 0-3-0  
**Advanced work in sound recording and music production techniques including classical music recording and editing, classical music production, popular music production, multi-track recording and editing, contemporary post-production techniques, multi-track mixing and audio mastering.**

## MUS 407 - Computer Music Seminar

**Units:** 3.0  
**Hours:** 0-3-0  
**Advanced work in computer music, including study of software synthesis and analysis of digitized signals, interactive control of synthesizers, embedded systems and robotics.**

## MUS 411 - The Business of Music

**Units:** 1.5  
**Hours:** 3-0-0  
**An in-depth, practical investigation of the music industry with emphasis on current trends in the creation and consumption of music as it relates to commerce. Students cultivate familiarity with common music business practices necessary for a career as a music professional and manager.**

## MUS 412 - Selected Topics in Music History

**Units:** 1.5  
**Hours:** 2.5-0-0  
**Note:** May be taken more than once for credit in different topics to a maximum of 3 units.**

## MUS 413 - Music Education Seminar II: Current Issues in Music Education

**Units:** 1.5  
**Hours:** 3-0-0  
**Issues covered in this course may include music for the special learner, global music pedagogy, technology applications in music education, musical theatre, creativity in the music classroom, improvisation in the music classroom, guitar in the secondary music classroom.**

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**Notes:**

- Permission of the School.
- Admission to BMus program in Composition and Theory.
- Credit will be granted for only one of MUS 380G, MUS 388.
- May be taken more than once for credit in different topics to a maximum of 3 units.
- Credit will be granted for only one of MUS 406B, MUS 406A.
- Formerly: MUS 380, MUS 388.
MUS 432A - MUS 462A

MUS 432A  Units: 1.5  Hours: 3-0-0
Formerly: ME 350
Kodály Level 1: Pedagogy and Music Literature
An overview of the Kodály-inspired concept of music education, with strategies and techniques for teaching rhythmic and tonal skills, elements and musical attitudes. Includes songs, games and dances related to the primary curriculum (grades K-2); folk and art music; plus preliminary song analysis skills and the beginning of a categorized, annotated, retrievable music collection.

Notes:
• Credit will be granted for only one of MUS 432A, ME 350, ME 400A.
• Knowledge of music rudiments equivalent to RCM Preliminary Rudiments required.
Corequisite(s): MUS 433A.

MUS 432B  Units: 1.5  Hours: 3-0-0
Kodály Level 2: Pedagogy and Music Literature
A continued study of the Kodály-inspired concept of music education strategies and techniques for teaching rhythmic and tonal skills, elements and musical attitudes. Focused study of intermediate curriculum (grades 3-5), including older beginners in these grades; folk and art music. Continuation of song analysis skills and of the categorized, annotated and retrievable music collection.

Note: Credit will be granted for only one of MUS 432B, EDCI 487 (if taken in the same topic).
Prerequisite(s):
• MUS 432A or ME 350; and
• MUS 433A; or
• permission of the school.
Corequisite(s): MUS 433B.

MUS 432C  Units: 1.5  Hours: 3-0-0
Kodály Level 3: Pedagogy and Music Literature
Kodály concept of music education strategies and techniques for developing rhythmic and tonal skills, elements, and musical attitudes. Focused study of curriculum beyond grade 5, plus non-school situations; folk and art music. Completion of categorized, annotated, retrievable music collection, suitable for teaching all levels.

Prerequisite(s):
• MUS 432B and MUS 433B; or
• permission of the school.
Corequisite(s): MUS 433C.

MUS 433A  Units: 1.5  Hours: 3-0-0
Kodály Level 1: Musicianship, Conducting and Ensemble
Beginning level vocal- and aural-centred musicianship skill development, emphasizing the use of relative solmization and rhythm syllables. Includes conducting techniques and choral singing. Daily in-class performance is expected.

Notes:
• Credit will be granted for only one of MUS 433A, ME 319 (if taken prior to August 2014).
• Knowledge of music rudiments equivalent to RCM Preliminary Rudiments required.
Corequisite(s): MUS 432A.

MUS 433B  Units: 1.5  Hours: 3-0-0
Kodály Level 2: Musicianship, Conducting and Ensemble
Intermediate level vocal- and aural-centred musicianship skill development emphasizing the use of relative solmization and rhythm syllables. Includes conducting techniques and choral singing. Daily in-class performance is expected.

Notes:
• Credit will be granted for only one of MUS 433B, EDCI 487 (if taken in the same topic).
• Students who completed ME 319 in May-Aug 2013 or May-Aug 2014 may request permission to register in the course.
Prerequisite(s):
• MUS 433A and MUS 432A; or
• permission of the school.
Corequisite(s): MUS 432B.

MUS 433C  Units: 1.5  Hours: 3-0-0
Kodály Level 3: Musicianship, Conducting & Ensemble
Advanced level vocal- and aural-centred musicianship skill development emphasizing the use of relative solmization and rhythm syllables. Includes conducting techniques and choral singing. Daily in-class performance is expected.

Prerequisite(s):
• MUS 432B and MUS 433B; or
• permission of the school.
Corequisite(s): MUS 432C.

MUS 437  Units: 1.5  Hours: 3-0-0
Music in the Secondary School Curriculum
A study of programs and materials for secondary schools. Some school experience will be required.

Note: Credit will be granted for only one of MUS 437, ME 401, ME 407.
Prerequisite(s):
• MUS 337 or ME 307; and
• admission to BMus in Secondary Education.

MUS 439  Units: 1.5  Hours: 3-0-0
Formerly: ME 409
Instrumental and Choral Clinic
Practical ensemble experience in secondary instrumental and choral classes. Teaching techniques, conducting, repertoire, and evaluation procedures will be addressed.

Notes:
• Credit will be granted for only one of MUS 439, ME 316, ME 409.
• Offered in alternate years.
Prerequisite(s):
• MUS 339A and MUS 339B; and
• admission to BMus in Secondary Education.

MUS 440  Units: 2.0  Hours: 0-1-0
Individual Tuition
Lessons in instrument or voice.

Note: May be taken more than once for credit with permission of the school to a maximum of 4 units; however, permission to repeat the course will only be granted in exceptional cases to students in a fifth year of study. Such students may be required to participate in ensembles.
Prerequisite(s): MUS 340.

MUS 445  Units: 4.0  Hours: 2-1-0
Seminar in Performance
Individual tuition, integrated performance seminar and weekly class including discussion of repertoire, pedagogy, and techniques of ensemble performance.

Prerequisite(s):
• MUS 345; and
• Admission to BMus program in Performance.

MUS 448  Units: 2.0
Graduating Recital
Prerequisite(s):
• MUS 345; and
• admission to BMus program in Performance.

Grading: INC, COM, N, F.

MUS 456B  Units: 1.5  Hours: 0-1.5-0
Topics in Conducting
Note: May be taken more than once for credit in different topics to a maximum of 3 units.

Prerequisite(s):
• MUS 270B; and
• MUS 256B or MUS 356B; or
• permission of the school.

Recommendation(s): MUS 350A recommended prior to MUS 456B.

MUS 462A  Units: 1.5  Hours: 0-3-0
Seminar in Performance of New Music
This seminar/workshop provides intensive professional training for performers who work together with composers in the creation, performance and production of new music. Performers will prepare new works composed specifically for them by the composers registered simultaneously in MUS 462B. Training in contemporary notation and performance practices, extended techniques, instrumentation, analysis, conducting techniques, communication skills and concert production. The final project is a festival. Open to third- and fourth-year music students.

Note: A combined undergraduate and graduate course (MUS 562A - Graduate Seminar in Performance of New Music).

Prerequisite(s):
• MUS 201B; and
• minimum third-year standing; or
• permission of the school.
MUS 462B - Units: 1.5 - Hours: 0-3-0
Seminar in Contemporary Composition and Performance

This seminar/workshop provides intensive professional training for performers who work together with composers in the creation, performance and production of new music. Composers will create new works composed specifically for the performers registered simultaneously in MUS 462A. Training in contemporary notation and performance practices, extended techniques, instrumentation, analysis, conducting techniques, communication skills and concert production. The final project is a festival. Open to third- and fourth-year music students.

**Note:** A combined undergraduate and graduate course (MUS 562B Graduate Seminar in Contemporary Composition and Performance).

**Prerequisite(s):**
- MUS 480, and
- minimum third-year standing, or permission of the school.

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MUS 480A - Units: 2.0 - Hours: 0-5-0
Formerly: MUS 480
University Orchestra
Rehearses and performs orchestral repertoire from the Baroque to the present.

**Notes:**
- Credit will be granted for only one of MUS 480A, MUS 480.
- May be taken more than once for credit with permission of the school to a maximum of 4 units.
- Open to all students by audition.

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MUS 480B - Units: 2.0 - Hours: 0-5-0
Formerly: MUS 480
University Wind Symphony
Rehearses and performs advanced repertoire for winds, brass and percussion.

**Notes:**
- Credit will be granted for only one of MUS 480B, MUS 480.
- May be taken more than once for credit with permission of the school to a maximum of 4 units.
- Open to all students by audition.

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MUS 480C - Units: 2.0 - Hours: 0-3-0
Formerly: MUS 480
Don Wright Symphonic Winds
Rehearses and performs intermediate level repertoire for winds, brass and percussion.

**Notes:**
- Credit will be granted for only one of MUS 480C, MUS 480.
- May be taken more than once for credit with permission of the school to a maximum of 4 units.
- Open to all students.

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MUS 480D - Units: 2.0 - Hours: 0-3-0
Formerly: MUS 480
Jazz and Creative Music Ensemble
Rehearses and performs music with an emphasis on community and collaboration, including jazz, improvisation and soundtracks for silent film.

**Notes:**
- Credit will be granted for only one of MUS 480D, MUS 480.
- Open to all students by audition.

**Prerequisite(s):** Permission of the department.
NURS 350  
Health and Healing VII: Promoting Community and Societal Health  
Explores knowledge for nursing as a practice of relationship and inquiry, in promoting community and societal health. Emphasis is placed on working with community and society, from perspectives of social justice, health equity and political action, community development and capacity building for community health promotion, and transformative and emancipatory approaches to teaching and learning. Students will engage in community-based learning activities to integrate theory and practice.  
Note: Normally, a student must pass both theory and practice co-requisites in the same term to advance in the program. If a student fails one co-requisite but achieves a minimum grade of B (73-76%) or higher in the second the student may not be required to complete both co-requisites again the next time they are offered.  
Prerequisite(s):  
• Health and Healing VI.  
For Post-diploma students:  
• NURS 345.  
Corequisite(s):  
For Post-diploma and BSN Partnership students (Aurora College, College of the Rockies and Selkirk College only):  
• NURS 351.  

NURS 351  
Nursing Practice VI: Promoting Health of Communities and Society  
Provides opportunities to develop caring relationships with families, groups and communities and/or populations with an emphasis on health promotion and community empowerment. Participants have opportunities to work with a community on an identified health issue.  
Notes:  
• Credit will be granted for only one of NURS 351, NURS 456.  
• Normally, a student must pass both theory and practice co-requisites in the same term to advance in the program. If a student fails one co-requisite but achieves a minimum grade of B (73-76%) or higher in the second the student may not be required to complete both co-requisites again the next time they are offered.  
Prerequisite(s):  
For BSN Partnership students:  
• Health and Healing VI.  
For Post-diploma students:  
• NURS 345.  
Corequisite(s):  
For Post-diploma and BSN Partnership students (Aurora College, College of the Rockies and Selkirk College only):  
• NURS 350.  
Grading: COM, F.  

NURS 360  
Professional Practice VI: Nursing Research  
Building on Professional Practice II, III, and IV, participants will enhance their understanding of nursing scholarship and their abilities to comprehend, critique, and utilize nursing research. Participants critically reflect on various scholarly works and research methodologies. Participants experience ways to critically examine their practice in relation to nursing research and to pose research questions for evidence-informed practice.  

NURS 370  
Consolidated Practice Experience III  
Provides opportunities for participants to integrate learning from previous terms, and to advance their professional nursing practice. Participants have opportunities to consolidate learning and advance their clinical decision making in a variety of settings. Nursing practice experiences consist of a six week practice placement.  
Note: CPE Workshops are required for all BSN Partnership students.  
Prerequisite(s):  
For BSN Partnership students (Aurora College, College of the Rockies and Selkirk College only):  
• All of NURS 341, NURS 342, NURS 350, NURS 351.  
For BSN Partnership students (Victoria campus):  
• All of NURS 341, NURS 342, NURS 350, NURS 360.  
Grading: COM, F.  

NURS 390  
Directed Studies  
Directed readings, research projects or special studies in a specified area of interest. A proposal is developed in consultation with a faculty member and includes a plan for the evaluation of the student's work. The proposal must receive the approval of the Director or designate before students are permitted to register.  
Notes:  
• May be taken more than once for credit in different topics with permission of the school to a maximum of 4.5 units.  
• Offered as resources permit.  

NURS 400  
Academic Writing for Nurses  
Elective online credit course, gives students practice writing academic genres: summaries, analyses, arguments, abstracts and literature reviews. Students refresh grammar and APA skills and share and improve their writing through peer review and revision. Scaffolded assignments, drafting, revision, and self-reflective exercises assist students to develop writing voice and build confidence. This course is directed to undergraduate nursing students to improve academic writing.  
Note: Credit will be granted for only one of NURS 400, NURS 300, NURS 390 (if taken in the same topic), NURS 480 (if taken in the same topic).  

NURS 405  
Statistics for Evidence-Based Practice  
Introduction to basic statistics used by healthcare professionals in critically appraising research literature. The current demand for accountability, professionalism, knowledge translation activities, and evidence-based practice are of paramount importance when making clinical decisions. Offers a solid foundation in preparing for future advanced research courses.  
Note: Credit will be granted for only one of NURS 405, NURS 480 (if taken in the same topic).  

NURS 425  
Quantitative and Qualitative Analysis  
A grounding in the techniques commonly used in the analysis of both quantitative and qualitative analysis are addressed. Students will understand a range of statistics commonly used in nursing research and learn how they are used in a computer-based application. Students will understand how qualitative data is used in nursing research and will engage in the process of coding qualitative data through coding and thematic construction.  
Notes:  
• Credit will be granted for only one of NURS 425, HSD 425.  
• All students must have basic computing and word processing skills prior to enrolling in the course.  

NURS 430  
Professional Practice V: Leadership in Nursing  
Investigates knowledge of leadership for nursing practice in the promotion of health for individuals, families, groups and communities. Topics include nurses’ roles in the Canadian health care system, nurses’ influence in change, impacts of global trends and issues, collaborative and ethical approaches for working within institutional philosophies and frameworks, and issues facing nurses in current work environments. Students will engage in leadership experiences, to integrate theory and practice of leadership competencies.  
Note: Normally, a student must pass both theory and practice co-requisites in the same term to advance in the program. If a student fails one co-requisite but achieves a minimum grade of B (73-76%) or higher in the second the student may not be required to complete both co-requisites again the next time they are offered.  
Prerequisite(s):  
For BSN Partnership students (Aurora College, College of the Rockies & Selkirk College only):  
• NURS 350 and NURS 351.  
For BSN Partnership students (Victoria only):  
• NURS 350.  
For Post-diploma students:  
• All of NURS 345, NURS 350, NURS 351.  
Corequisite(s):  
For Post-diploma and BSN Partnership students (Aurora College, College of the Rockies & Selkirk College only):  
• NURS 431.  
• For BSN Partnership students (Victoria only):  
• NURS 456.  

NURS 456  

NURS 431  Units: 1.5  
Nursing Practice VII: Engaging in Leadership  
Provides opportunities to further develop competencies in the areas of leadership, influencing and managing change, and using research to promote the health of individuals, families, communities and society within the context of the Canadian health care system. Focus on participants’ growth as nursing professionals; opportunities to explore inter-professional practices and nursing leadership in the context of emerging Canadian and global health issues and trends.  
Notes:  
• Credit will be granted for only one of NURS 431, NURS 456.  
• Normally, a student must pass both theory and practice co-requisites in the same term to advance in the program. If a student fails one co-requisite but achieves a minimum grade of B (73-76%) or higher in the second the student may not be required to complete both co-requisites again the next time they are offered.  
Prerequisite(s):  
For BSN Partnership students (Aurora College, College of the Rockies & Selkirk College only):  
• NURS 350 and NURS 351.  
For Post-diploma students:  
• All of NURS 345, NURS 350, NURS 351.  
Corequisite(s):  
For Post-diploma and BSN Partnership students (Aurora College, College of the Rockies & Selkirk College only):  
• NURS 430.  
Grading: COM, F.

NURS 456  Units: 1.5  
Nursing within Communities and Health Systems  
Apply nursing knowledge, skills, judgements, and attributes where people intersect with communities, organizations and health systems. Students analyze and utilize evidence-informed data to: influence change, promote inter-professional collaboration to enhance continuity, address challenges and deliver safe, ethical, quality care, foster social justice, empowerment, and culturally competent practice, and provide leadership.  
Note: Credit will be granted for only one of NURS 456, NURS 351, NURS 431.  
Prerequisite(s): NURS 350 and NURS 370.  
Corequisite(s): NURS 430.  
Grading: COM, F.

NURS 470  Units: 4.5  
Consolidated Practice Experience IV  
Provides opportunities for participants to integrate learning from previous terms, and to advance their professional nursing practice. Participants have opportunities to consolidate learning and advance their clinical decision-making in a variety of settings. Nursing practice experiences consist of a six-week practice placement.  
Note: CPE Workshops are required for all BSN Partnership students.  
Prerequisite(s): NURS 370.  
Grading: COM, F.

NURS 475  Units: 4.5  
Consolidated Practice Experience V  
Provides opportunities for participants to integrate learning from previous terms, and to advance their professional nursing practice. In a variety of settings, participants have opportunities to consolidate learning, and advance their clinical decision-making. Nursing practice experiences consist of a six-week practice placement.  
Note: CPE Workshops are required for all BSN Partnership students.  
Prerequisite(s):  
For BSN Partnership students (Aurora College, College of the Rockies & Selkirk College only):  
• All of NURS 360, NURS 370, NURS 430, NURS 431.  
For BSN Partnership students (Victoria only):  
• All of NURS 360, NURS 370, NURS 425, NURS 430, NURS 456.  
Pre- or Corequisite(s): NURS 470.  
Grading: COM, F.

NURS 480  Units: 1.5 or 3.0  
Special Topics  
Topics of current interest or concern to groups of students.  
Note: May be taken more than once for credit in different topics with permission of the school.

NURS 487  Units: 1.5  
Nursing Practice in Hospice Palliative Care  
Explores nursing practice in hospice palliative care. Historical, theoretical, personal, and professional perspectives are presented for ongoing examination and analysis in relation to their impact on and guidance for nursing practice. Central to this exploration is a growing understanding of the human experience of persons living their dying and how we as nurses choose to engage with and serve hospice palliative care patients. It is our goal that, through examination of these various dimensions, students will be guided to practice with persons living their dying in ways that uphold human dignity and honour human uniqueness.

NURS 482  Units: 1.5  
Pharmacological Knowledge for Nursing Practice  
A systematic approach to develop knowledge of pharmacological, herbal and homeopathic interventions. Students will have opportunities to explore populations of interest and local, national, and/or global issues related to pharmacological interventions and marketing. Students will work collaboratively to develop and disseminate nursing knowledge.  
Notes:  
• In the on-campus course, online work complements in-classroom instruction.  
• In the online course, conferencing tools will be used to augment required learning activities, readings and assignments.

NURS 483  Units: 1.5  
Teaching and Learning in Nursing Practice  
Considers pedagogies that are consistent with a human science paradigm and health promotion perspective. In addition, students are expected to develop their unique approaches to teaching and learning within these perspectives. Focuses on pedagogical considerations involved in health promotion nursing practice.  

NURS 484  Units: 1.5  
Understanding Indigenous Health and Wellbeing  
Develops student understanding of the socio-cultural history and current context that shapes the lives of Indigenous people and their communities’ health in Canada. We enter into a ‘relational space’ through the use of storytelling, self-reflection, and experiential learning methods, and engage a critical social lens that explores power, white privilege, racism and culture. Embedded in this course are the strengths and gifts of Indigenous knowledge and teachings.

NURS 487  Units: 1.5  
Health Care Law  
Designed to allow students to develop an understanding of the origin and sources of the law as it applies to the Canadian health care system. Stimulates an appreciation for legal terminology, reasoning, and processes as well as the basic principles of law which apply to and govern the delivery of health care services in Canada. Designed to develop an ability to identify the legal aspects of health care practice, information systems and management as well as an ability to determine when and how to use legal counsel effectively.  
Note: Credit will be granted for only one of NURS 487, HINF 330, HINF 491 (if taken in the same topic).

NURS 490  Units: 1.5 or 3.0  
Directed Studies  
Directed readings, research projects or special studies in a specified area of interest. A proposal is developed in consultation with a faculty member and includes a plan for the evaluation of the student’s work. The proposal must receive the approval of the Director or designate before students are permitted to register.  
Notes:  
• May be taken more than once for credit in different topics with permission of the school to a maximum of 4.5 units.  
• Offered as resources permit.
NURS 491  
Units: 4.5  
Nursing Practice VIII: Transitions  
Provides opportunities for participants to consolidate their learning and explore the transition to professional nursing as a BSN graduate. Participants also explore transitions in the health care system and the workplace that affect nurses. Participants may develop their practice within a specific area, e.g., particular setting of practice, a certain client population, or a specific health challenge.  
Note: CPE Workshops are required for all BSN Partnership students.  
Prerequisite(s): NURS 470.  
Pre- or Corequisite(s): NURS 475.  
Grading: COM, F.  

NURS 493A  
Units: 1.5  
Community Health Nursing  
Examines the theoretical and conceptual foundations of community health nursing practice. Students explore and critique nurses' roles in community health nursing, particularly in public health and in primary health care settings. Provides opportunities to advance and/or to add to your nursing knowledge and experience. Community health assessment, individual health assessment, population-focused practice, epidemiology, communicable disease control, and health-promoting practice with specific populations and in relation to specific health issues are explored and critiqued.  
Prerequisite(s):  
For BSN Partnership students:  
• completion of Term 6; and  
• permission of the department.  

NURS 493C  
Units: 1.5  
Lived Experience of Health in Aging  
Examines the complex nature of aging and health. Explores determinants of health, as well as the common chronic and episodic challenges of health and healing in later life. Changing demographics and societal forces influencing present and future health care of older persons will be analyzed and critiqued. Examines nursing theory and issues related to the delivery of care with older persons. Health promotion and nursing practice, and environments that support healthy aging are integral to this course.  
Prerequisite(s):  
For BSN Partnership students:  
• completion of Term 6; and  
• permission of the department.  

NURS 495  
Units: 1.5-4.5  
Nursing Practice Synthesis  
This final course of the Post Diploma BSN program is designed as a practice course. The course informs transition to baccalaureate-prepared nursing practice. Course activities foster integration and synthesis of prior learning, and further strengthen theory and evidence-informed knowledge addressing key program concepts.  
Notes:  
• Post-diploma students may take NURS 495 more than once for credit to a maximum of 4.5 units.  
• Students who wish to condense their practice hours will not be able to do so until after week six of the course.  
Prerequisite(s): For Post-diploma students: NURS 345, NURS 350, NURS 351, NURS 430, NURS 431.  
Grading: COM, F.  

NURS 496  
Units: 1.5  
Nursing with Childbearing Families  
A woman and family-centered approach that attends to health inequities, material, social, and discursive conditions, and the experiences of all family members will be used to explore nursing care for childbearing families from preconception through the childbearing year. Nursing students will develop the knowledge and clinical judgement needed for working with common perinatal, neonatal, rural and public health nursing situations.  

NURS 497  
Units: 1.5  
Nursing at the Intersections in Mental Health and Substance Use  
Focuses on mental health, mental illness, substance use and addictions in the Canadian context. The core concepts of relational practice, epigenetics and social dimensions of substance use and mental health are applied. Harm reduction, cultural safety and trauma and violence informed practice are integrated through case study, context-based learning, and arts-based approaches to enhance student application of nursing practice related to mental health and substance use.  
Note: Credit will be granted for only one of NURS 497 or NURS 480 (if taken in the same special topic).  

PAAS 100  
Units: 1.5  
Hours: 3-0-0  
Introduction to Pacific and Asian Studies  
Central themes and various aspects of Asian and Pacific Studies from the early-modern period to the present day. Studies of film, literature, religion, politics and economics.  

PAAS 101  
Units: 1.5  
Hours: 3-0-0  
Text, Manipulation, Propaganda  
The process of textual analysis, covering the written word, film and theatre from different genres, eras and countries. Analysis of the relationship between narrative features, emotional or ideological manipulation of the reader, and various types of propaganda in Asia.  

PAAS 103  
Units: 1.5  
Hours: 3-0-0  
Global Wars in Asia and the Pacific  
Traces the transnational history of the wars in the region in relation to the political, economic, socio-cultural and ideological dynamics of Asian Pacific countries.
PAAS 118  Units: 3.0  Hours: 6-1-0
Formerly: PAAS 110, CHIN 149
Intensive Beginner Chinese I
Intensive Chinese language instruction for beginning language students.
Notes:
• Credit will be granted for only one of PAAS 118, PAAS 110, CHIN 100, CHIN 100A, CHIN 100B, CHIN 149.
• Not open to native speakers.

PAAS 120  Units: 1.5  Hours: 3-1-0
Formerly: SEA 100A
Introduction to Indonesian-Malay I
Indonesian-Malay for students with no previous knowledge of the language with emphasis on developing listening comprehension and speaking ability; common conversational patterns, as well as some of the cultural reasoning behind them. Reading and writing will also be introduced.
Notes:
• Credit will be granted for only one of PAAS 120, SEA 100A.
• Limited to 25 students per section.

PAAS 121  Units: 1.5  Hours: 3-1-0
Formerly: SEA 100B
Introduction to Indonesian-Malay II
Basic conversations and grammar in Indonesian-Malay and readings of a variety of elementary textual materials.
Notes:
• Credit will be granted for only one of PAAS 121, SEA 100B.
• Limited to 25 students per section.
Prerequisite(s):
• PAAS 120 with a minimum grade of B, or permission of the department.

PAAS 138  Units: 3.0  Hours: 6-0-0
Formerly: PAAS 130, JAPA 149
Intensive Beginner Japanese I
Japanese language instruction for beginning language students. Development of basic language skills, including listening, speaking, reading and writing.
Note: Credit will be granted for only one of PAAS 138, PAAS 130, JAPA 100, JAPA 100A, JAPA 100B, JAPA 149.

PAAS 150  Units: 1.5  Hours: 3-0-0
Formerly: CHIN 201A
Preamodern Chinese Culture
An introduction to the history and culture of China from earliest times to the mid-19th century. Philosophy, religion, art and literature will be the most important areas of discussion. Relevant political, economic, social and educational traditions will be introduced as well.
Notes:
• Credit will be granted for only one of PAAS 150, CHIN 201, CHIN 201A.
• No knowledge of Chinese language is required.

PAAS 151  Units: 1.5  Hours: 3-0-0
Formerly: CHIN 201B
Modern Chinese Culture
A survey of Chinese culture from the mid-19th century to the present. Contemporary culture patterns will be placed in traditional perspective, while relevant political, economic and social contexts will also be considered. Emphasizing the effects of modern events on cultural life, particularly literature, the arts, religion and education system.
Note: Credit will be granted for only one of PAAS 151, CHIN 201, CHIN 201B.

PAAS 152  Units: 1.5  Hours: 3-0-0
Introduces the essential features, beliefs, institutions and arts of Chinese civilisation, from the earliest times through the nineteenth century.

PAAS 170  Units: 1.5  Hours: 3-0-0
Formerly: SEA 201A
Premodern Southeast Asian Cultures
A survey of cultural developments in Southeast Asia from earliest times to the 19th century.
Note: Credit will be granted for only one of PAAS 170, SEA 201, SEA 201A.

PAAS 171  Units: 1.5  Hours: 3-0-0
Formerly: SEA 201B
Modern Southeast Asian Cultures
Examines the development of modern Southeast Asian cultures, paying particular attention to media such as the press, popular music, theatre, film and television.
Note: Credit will be granted for only one of PAAS 171, SEA 201, SEA 201B.

PAAS 180  Units: 1.5  Hours: 3-0-0
Formerly: JAPA 201A
Premodern Japanese Culture
Surveys Japan’s cultural past from earliest times to the mid-19th century. Emphasizes the outstanding developments of each epoch, especially in the areas of literature, drama, philosophy and religion, and the visual arts. No knowledge of Japanese language is required.
Note: Credit will be granted for only one of PAAS 180, JAPA 201, JAPA 201A.

PAAS 181  Units: 1.5  Hours: 3-0-0
Formerly: JAPA 201B
Modern Japanese Culture
Survey of Japanese culture from the mid-19th century to the present. Developments in literature, film, technology, ethnicity, religion, consumerism, manga and anime will be considered in their historical and social contexts. No knowledge of Japanese language is required.
Note: Credit will be granted for only one of PAAS 181, JAPA 201, JAPA 201B.

PAAS 200  Units: 1.5  Hours: 3-0-0
Introduction to Theories and Methods in Pacific and Asian Studies
A variety of theoretical approaches and perspectives applicable to the study of the Pacific and Asian region.
Pre- or Corequisite(s): PAAS 100 or PACI 210.

PAAS 202  Units: 1.5  Hours: 3-0-0
Topics in Asian Cinema
The analysis of thematic issues, variations, stylistic considerations and mechanics of meaning production in Asian cinema. Looks at both contemporary and classic films from Japan, China, Taiwan and Indonesia.

PAAS 204  Units: 1.5  Hours: 3-0-0
Also: RS 200B
Introduction to Asian Religions
A survey of the sources, beliefs and practices of Hinduism, Buddhism, Sikhism and the Chinese religions. The traditions will be studied in their cultural and political contexts from both historical and contemporary perspectives.
Note: Credit will be granted for only one of PAAS 204, RS 200B.

PAAS 206  Units: 1.5  Hours: 3-0-0
Comics and Graphic Novels in Asia and the Pacific
Introduces theories of graphic narratives and visual storytelling. Focus on works from Asia and North America representing experiences of life in Asia or in the global Asian Diaspora. Special emphasis on the development of the form, and of particular styles and themes within their local and global contexts.

PAAS 207  Units: 1.5  Hours: 3-0-0
Ghosts and Spirits
Ghosts and spirits in literature, drama and cinema from the Asia-Pacific. Explores how these texts interact with philosophical and religious belief systems.

PAAS 208  Units: 1.5  Hours: 3-0-0
Family and Gender in the Pacific
Introduces domestic relationships, constructs of gender and their intersections with broader political and economic processes in the Pacific.

PAAS 209  Units: 1.5 or 3.0  Hours: 3-0-0
Formerly: PACI 281
Introductory Special Topics in Pacific and Asian Studies
Introduces selected problems in Pacific Studies.
Notes:
• Credit will be granted for only one of PAAS 209, PACI 281 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

PAAS 218  Units: 3.0  Hours: 6-1-0
Formerly: PAAS 218B
Intensive Beginner Chinese II
Continuation of 118, bringing beginner students to the lower-intermediate level in Modern standard Chinese. Primary emphasis on reading and translation of texts in modern Chinese in both standard and simplified characters. Introduction of elements of the classical language as used in modern writing. Attention also to listening, speaking and/or writing skills.
Notes:
• Credit will be granted for only one of PAAS 218, PAAS 218B, PAAS 111, CHIN 150, CHIN 200, CHIN 200A, CHIN 200B.
• Not open to native speakers.
Prerequisite(s):
• PAAS 118 with a minimum grade of B, or permission of the department.

PAAS 220  Units: 1.5  Hours: 3-1-0
Formerly: SEA 200A
Intermediate Indonesian-Malay I
A continuation of 121 for students who wish to improve their skills in Indonesian-Malay. Includes advanced grammar and use of simple newspaper materials to stimulate students’ ability to read and discuss a variety of topics.
Notes:
• Credit will be granted for only one of PAAS 220, PAAS 220A, SEA 200, SEA 200A.
• Limited to 25 students per section.
Prerequisite(s):
• PAAS 121 with a minimum grade of B, or permission of the department.
PAAS 221  Units: 1.5  Hours: 3-1-0
Formerly: SEA 200B
Intermediate Indonesian-Malay II
Continues the focus of 220 with increasingly-advanced readings, schema exercises to facilitate vocabulary building and longer written assignments. Emphasis on speaking, reading, writing and listening. Preparation for students for immersion experiences and advanced language work.
Notes:
- Credit will be granted for only one of PAAS 221, SEA 200, SEA 200B.
- Limited to 25 students per section.
Prerequisite(s):
- PAAS 220, or
- permission of the department.

PAAS 238  Units: 3.0  Hours: 6-0-0
Formerly: PAAS 131, JAPA 150
Intensive Beginner Japanese II
Continuation of 138 for those students who intend to pursue this language comprehensively, speaking and writing abilities, and writing skills on a more advanced level.
Note: Credit will be granted for only one of PAAS 238, PAAS 131, JAPA 150, JAPA 200.
Prerequisite(s):
- PAAS 138 with a minimum grade of B, or
- permission of the department.

PAAS 262  Units: 1.5  Hours: 3-0-0
Introduction to Oceania
A study of the Pacific Islands, particularly Melanesia and Polynesia areas, focusing on contemporary conditions of environment, language, economy, society, politics and culture in historical and global perspective, and demonstrating the influence and contributions of the Pacific Islands' peoples to world culture.
Prerequisite(s):
- Minimum second-year standing, or
- permission of the department.

PAAS 279  Units: 1.5  Hours: 3-0-0
Also: LING 261
Formerly: CHIN 261
Introduction to the Chinese Language and Linguistics
The synchronic and diachronic descriptions of Chinese. Subjects covered may include phonology, morphology, syntax, semantics, historical changes, poetics, dialectology, orthography, the sociolinguistic and psycholinguistic aspects of Chinese, the relationship between the Chinese language, thought, culture, and the history of Chinese linguistics.
Note: Credit will be granted for only one of PAAS 279, CHIN 261, LING 261.

PAAS 280  Units: 1.5  Hours: 3-0-0
A Taste of Japan
A survey through film, TV dramas, literature and other readings of Japanese food and gastronomy: its nutritional value, its history, its relationship to art and aesthetics, entertainment, economy and the environment, and its role in the globalization of food culture.
Note: No knowledge of Japanese required.
Prerequisite(s):
- Minimum second-year standing, or
- permission of the department.

PAAS 299  Units: 1.5-3.0
Experiential Learning
Students will present a project, approved in advance, based on the experience of living, working, or studying in a Pacific Asian environment.
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.
Prerequisite(s):
- Minimum second-year standing, or
- permission of the department.

PAAS 300  Units: 1.5  Hours: 3-0-0
Social and Economic Issues in the Asia-Pacific Region
Studies theoretical issues concerning socio-economic structure and change in the Asia-Pacific region. Topics include colonialism, capitalism, globalization, orientalism, sovereignty and body politics. Particular emphasis is placed on critical approaches to the region from both historical and theoretical perspectives.
Note: Credit will be granted for only one of PAAS 300, PACI 325.
Prerequisite(s):
- PAAS 200; and
- Academic Writing Requirement satisfied.

PAAS 301  Units: 1.5  Hours: 3-0-0
Social Theory and Analysis in Pacific and Asian Area Studies
Theoretical perspectives applicable to the field of Pacific Area Studies.
Note: Credit will be granted for only one of PAAS 301, PACI 390.
Prerequisite(s):
- PAAS 200; and
- Academic Writing Requirement satisfied.

PAAS 302  Units: 1.5  Hours: 3-0-0
Literary and Cultural Theory in Pacific and Asian Languages and Literatures Studies
Introduces key literary and cultural theories pertinent to the study and understanding of Pacific and Asian literature and texts. Credit will be granted for only one of PAAS 302, PACI 392.
Prerequisite(s):
- PAAS 200; and
- Academic Writing Requirement satisfied.

PAAS 304  Units: 1.5  Hours: 3-0-0
Asian Aesthetics and Poetics
Theorizes beauty and literature (including poetry, drama, prose narrative, cinema) from the earliest times to the present, situated within philosophical, intellectual and ideological systems.
Prerequisite(s):
- Minimum second-year standing, or
- permission of the department.

PAAS 305  Units: 1.5  Hours: 3-0-0
Also: RS 361
Religions of East Asia
A survey of the religious literature and systematic thought of the traditions of China and Japan, including Confucianism, Daoism, Buddhism and Shinto.
Note: Credit will be granted for only one of PAAS 305, RS 361.
Prerequisite(s):
- PAAS 204 or RS 208; and
- Academic Writing Requirement satisfied.

PAAS 306  Units: 1.5  Hours: 3-0-0
Tibetan Buddhism
A survey of the main systems of Indo-Tibetan religious thought, with reference to primary sources. Traditions covered may include the six orthodox Hindu schools, the various Indian heterodox systems, Bon and the main branches of Tibetan Buddhism.
Note: Credit will be granted for only one of PAAS 306, RS 362.
Prerequisite(s):
- PAAS 204 or RS 208; and
- Academic Writing Requirement satisfied.

PAAS 307  Units: 1.5  Hours: 3-0-0
Globalization and Religion
Examines how scholars account for simultaneous worldwide religious resurgence and economic globalization.
Prerequisite(s):
- Minimum third-year standing, and
- Academic Writing Requirement satisfied, or
- permission of the department.

PAAS 309  Units: 1.5  Hours: 3-0-0
Human Rights and Cultural Expression in the Asia-Pacific Region
Examines connections between concepts of and debates about Human Rights in relation to a variety of forms of cultural expression. Forms of expression may include film, literature, music, graphic arts and mass media. Investigates material from and about China, Japan, South Asia, Southeast Asia, the Pacific Islands and the Asian Diaspora.
Prerequisite(s): Academic Writing Requirement satisfied.

PAAS 318  Units: 3.0  Hours: 6-1-0
Formerly: PAAS 210, PAAS 211, CHIN 249A, CHIN 249B
Intermediate Chinese
A continuation of 218, with increasing emphasis placed on acquiring new vocabulary and developing reading skills. Students will also have the opportunity to make more advanced classroom presentations and present longer written assignments in Chinese.
Notes:
- Credit will be granted for only one of PAAS 318, PAAS 210, PAAS 211, CHIN 249, CHIN 249A, CHIN 249B, CHIN 300.
- Not open to native speakers.
Prerequisite(s):
- PAAS 218 with a minimum grade of B, and
- Academic Writing Requirement satisfied, or
- permission of the department.
<table>
<thead>
<tr>
<th>COURSE LISTINGS</th>
<th>PAAS 338 - PAAS 357</th>
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<tbody>
<tr>
<td><strong>PAAS 338</strong></td>
<td>Units: <strong>3.0</strong></td>
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<tr>
<td><em>Formerly: PAAS 230, JAPA 249</em></td>
<td>Hours: <strong>6-0-0</strong></td>
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<tr>
<td><strong>Intermediate Japanese</strong></td>
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<tr>
<td>A continuation of PAAS 238, aimed at a balanced development of listening, speaking, reading, and writing skills.</td>
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<td><strong>Prerequisite(s):</strong></td>
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<tr>
<td>- PAAS 238 with a minimum grade of B; and</td>
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<td>- Academic Writing Requirement satisfied; or</td>
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<td>- permission of the department.</td>
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| **PAAS 340**    | Units: **1.5**      |
| *Formerly: PAAS 330, JAPA 311* | Hours: **3-0-0** |
| **Integrative Intermediate Japanese** |                      |
| A continuation of PAAS 338, offering further development of language skills. Focuses primarily on reading and writing, for students who want to gain fundamental competence in the Japanese language in preparation for advanced academic or career goals. Classes conducted in Japanese. |                      |
| **Prerequisite(s):** |                      |
| - PAAS 338 with a minimum grade of B; and |                      |
| - Academic Writing Requirement satisfied; or |                      |
| - permission of the department. |                      |

| **PAAS 341**    | Units: **1.5**      |
| *Formerly: PAAS 331, JAPA 312* | Hours: **3-0-0** |
| **Advanced Readings in Japanese I** |                      |
| Readings in modern Japanese, designed to broaden students’ acquaintance with the Japanese writing system, expand their working vocabulary and provide a firmer grounding to their general knowledge of the language. Course content may vary from year to year. |                      |
| **Prerequisite(s):** |                      |
| - PAAS 340 with a minimum grade of B; and |                      |
| - Academic Writing Requirement satisfied; or |                      |
| - permission of the department. |                      |

| **PAAS 342**    | Units: **1.5**      |
| *Formerly: PAAS 332, JAPA 313* | Hours: **3-0-0** |
| **Advanced Readings in Japanese II** |                      |
| For students who wish to expand their working vocabulary and develop their skills in reading modern Japanese. Course content may vary from year to year. |                      |
| **Prerequisite(s):** |                      |
| - PAAS 340 with a minimum grade of B; and |                      |
| - Academic Writing Requirement satisfied; or |                      |
| - permission of the department. |                      |

| **PAAS 343**    | Units: **1.5**      |
| *Formerly: PAAS 333, JAPA 314* | Hours: **3-0-0** |
| **Advanced Comprehension and Conversation in Japanese** |                      |
| An advanced course designed to develop knowledge of practical Japanese through listening and speaking practice. |                      |
| **Note:** Credit will be granted for only one of PAAS 343, PAAS 333, JAPA 314, JAPA 411. |                      |
| **Prerequisite(s):** |                      |
| - PAAS 340 with a minimum grade of B; and |                      |
| - Academic Writing Requirement satisfied; or |                      |
| - permission of the department. |                      |

| **PAAS 344**    | Units: **1.5**      |
| *Formerly: PAAS 334, JAPA 315* | Hours: **3-0-0** |
| **Advanced Composition in Japanese** |                      |
| An advanced course designed to develop knowledge of written Japanese through practical writing practice. |                      |
| **Note:** Credit will be granted for only one of PAAS 344, PAAS 334, JAPA 315, JAPA 411. |                      |
| **Prerequisite(s):** |                      |
| - PAAS 340 with a minimum grade of B; and |                      |
| - Academic Writing Requirement satisfied; or |                      |
| - permission of the department. |                      |

| **PAAS 345**    | Units: **1.5**      |
| *Formerly: PAAS 336* | Hours: **3-0-0** |
| **Japanese through Popular Culture** |                      |
| **Note:** Credit will be granted for only one of PAAS 345, PAAS 336. |                      |
| **Prerequisite(s):** |                      |
| - PAAS 340 with a minimum grade of B; and |                      |
| - Academic Writing Requirement satisfied; or |                      |
| - permission of the department. |                      |

| **PAAS 351**    | Units: **1.5**      |
| *Formerly: PACI 319B* | Hours: **3-0-0** |
| **Contemporary Chinese Society** |                      |
| Traces China’s economic development and socialist transformation since 1949. |                      |
| **Note:** Credit will be granted for only one of PAAS 351, PACI 319B, PACI 419. |                      |
| **Prerequisite(s):** |                      |
| - Minimum third-year standing; and |                      |
| - Academic Writing Requirement satisfied. |                      |

| **PAAS 355**    | Units: **1.5**      |
| *Formerly: CHIN 305* | Hours: **3-0-0** |
| **The Literature of the People’s Republic of China 1900-1949 (in English)** |                      |
| A historical overview, followed by a study of selected works of fiction, poetry, drama, memoir, film, and popular song from late Qing and Republican (1911-1940) China, a time of political turmoil and intellectual and cultural innovation. Supplementary readings in social and political history and literary criticism. Assigned readings are in English translation and original versions in Chinese may also be available. |                      |
| **Note:** Credit will be granted for only one of PAAS 355, CHIN 305. |                      |
| **Prerequisite(s):** |                      |
| - Minimum second-year standing; and |                      |
| - Academic Writing Requirement satisfied; or |                      |
| - permission of the department. |                      |

| **PAAS 356**    | Units: **1.5**      |
| *Formerly: CHIN 306* | Hours: **3-0-0** |
| **The Literature of the People’s Republic of China 1949 to the Present in English** |                      |
| A study of Chinese literary texts created in a range of forms and styles during the period of communist rule, with an emphasis on the years since the death of Mao and the end of the Cultural Revolution (1976 to the present). Chinese versions of all primary texts and secondary texts may be available. |                      |
| **Note:** Credit will be granted for only one of PAAS 356, CHIN 306. |                      |
| **Prerequisite(s):** |                      |
| - Minimum second-year standing; and |                      |
| - Academic Writing Requirement satisfied; or |                      |
| - permission of the department. |                      |

| **PAAS 357**    | Units: **1.5**      |
| *Formerly: CHIN 324* | Hours: **3-0-0** |
| **Chinese Cinema from Text to Screen** |                      |
| Explores Chinese filmmakers’ adaptations of pre-modern, modern and contemporary works of literature for the screen. Examples are taken from republican, Mao-era and reform-era film, and may include selections from Taiwan and Hong Kong directors. |                      |
| **Note:** Credit will be granted for only one of PAAS 357, CHIN 324. |                      |
| **Prerequisite(s):** |                      |
| - Minimum second-year standing; and |                      |
| - Academic Writing Requirement satisfied; or |                      |
| - permission of the department. |                      |
PAAS 358  Units: 1.5  Hours: 3-0-0
Formerly: CHIN 325
Screening the Nation: Nationalism, Ideology, and Politics in Chinese Cinema
Provides a theoretical and thematic framework for the analysis of films from Mainland China from the 1930s to the present.
Note: Credit will be granted for only one of PAAS 358, CHIN 325.
Prerequisite(s):
• Minimum second-year standing; and
• Academic Writing Requirement satisfied.
PAAS 363  Units: 1.5  Hours: 3-0-0
Also: RS 363
The Buddhist Tradition I
Covers the development of Indian Buddhism from a doctrinal and historical perspective, beginning with the historical Buddha (c. 500 BCE) and ending with the period of Buddhism’s first transmission to Tibet (c. 800 C.E.). Examines the philosophical perspectives found in the texts of a number of prominent schools including the Theravada, Sarvastivada, Madhyamaka and Yogacara.
Note: Credit will be granted for only one of PAAS 363, RS 303 (if taken in the same topic), RS 363.
Prerequisite(s): Academic Writing Requirement satisfied.
PAAS 364  Units: 1.5  Hours: 3-0-0
Also: PACI 328A
Indigenous Societies and Colonial Relations in Oceania
Studies indigenous societies and cultures of the Pacific Islands and their links to the world system. Material on Fiji, Tonga, Hawaii, New Zealand and other parts of the region provides a basis to examine classical and current issues.
Note: Credit will be granted for only one of PAAS 364, PACI 328A.
Prerequisite(s):
• Minimum second-year standing; and
• Academic Writing Requirement satisfied.
PAAS 366  Units: 1.5  Hours: 3-0-0
Also: GNDR 304
Gendering India from Empire to Bollywood
Uses a gendered lens to analyze the manner in which both the British colonial gaze and Indian nationalists imagined India. Theoretical readings, biographies and Bollywood films will unpack ways in which gender, race and class constructed dominant ideas of the Indian nation and how this nationalism in turn shaped women’s lives.
Note: Credit will be granted for only one of PAAS 366, GNDR 304, WS 314.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.
PAAS 367  Units: 1.5  Hours: 3-0-0
Gandhi and the Ethics of Nonviolence
Centres upon the life and teachings of Mohandas K. Gandhi. Examines Gandhi’s religious thought with regard to ideals of nonviolence (ahimsa) and truth (satya), as well as his attempts to realize these principles in the personal, social and political spheres. Also covers a number of religious and political figures with comparable view, including B. R. Ambedkar, Martin Luther King Jr., Malcolm X, Krishnamurti, Thich Nhat Hanh, Aung San Suu Kyi and the Dalai Lama.
Note: Credit will be granted for only one of PAAS 367, RS 301 (if taken in the same topic), RS 311.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied.
PAAS 372  Units: 1.5  Hours: 3-0-0
Formerly: SEA 324
Southeast Asian Cinema
A survey of trends in the cinemas of Indonesia, Thailand, the Philippines and Malaysia/Singapore.
Note: Credit will be granted for only one of PAAS 372, SEA 324.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.
PAAS 373  Units: 1.5  Hours: 3-0-0
Also: THEA 328
The Theatre of Indonesia
Examines trance dances, traditional puppet theatres of Java and Bali, folk theatres of Java, Bali and Sumatra and national Indonesian language-art theatre and drama.
Note: Credit will be granted for only one of PAAS 373, SEA 320, THEA 328.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.
PAAS 380  Units: 1.5  Hours: 3-0-0
Formerly: PACI 321A
Japanese Economy, Politics and Culture
Examines various aspects of the history of Japan, with emphasis on the complex, changing relationship of the economy, politics, culture and ideas.
Note: Credit will be granted for only one of PAAS 380, PACI 321, PACI 321A.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.
PAAS 385  Units: 1.5  Hours: 3-0-0
Formerly: JAPA 359
Love and Sex in Japanese Culture
A seminar on love and sex in Japan, from earliest times to the present day. Readings include fiction, drama and poetry.
Note: Credit will be granted for only one of PAAS 385, JAPA 358 (if taken in the same topic), JAPA 359 (if taken in the same topic).
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.
PAAS 386  Units: 1.5  Hours: 3-0-0
Formerly: JAPA 302A and JAPA 302B
Premodern Japanese Literature in Translation
Surveys through materials in English translation Japanese literature from the earliest times to the eve of the Meiji Restoration. Major literary trends will be examined including poetry, literary diaries, zuihitsu, Noh drama, puppet theatre and popular fiction.
Note: Credit will be granted for only one of PAAS 386, JAPA 302, JAPA 302A, JAPA 302B.
Prerequisite(s):
• Minimum second-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.
PAAS 388  Units: 1.5  Hours: 3-0-0
Formerly: JAPA 303A and JAPA 303B
Modern Japanese Literature in Translation
Japanese literature from the Meiji Restoration to the present day in English translation. Focuses on thematic and stylistic developments of various genres of Japanese literature.
Note: Credit will be granted for only one of PAAS 388, JAPA 303, JAPA 303A, JAPA 303B.
Prerequisite(s):
• Minimum second-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.
PAAS 393  Units: 1.5  Hours: 3-0-0
Formerly: JAPA 324A
Humanism in Japanese Cinema to the 1960s
Humanism and Existentialism as sources of social critique in post-war Japanese film, through the late 1960s.
Note: Credit will be granted for only one of PAAS 393, JAPA 324A.
Prerequisite(s):
• Minimum second-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.
PAAS 394  Units: 1.5  Hours: 3-0-0
Formerly: JAPA 320A, also THEA 312
Pre-modern Japanese Theatre
Surveys Japanese theatre history from earliest times until the nineteenth century. Introduction to the major forms, styles and theory of traditional Japanese theatre, including nō, kyōgen, bunraku and kabuki.
Note: Credit will be granted for only one of PAAS 394, JAPA 320A, THEA 312.
Prerequisite(s):
• Minimum second-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.
PAAS 395  Units: 1.5  Hours: 3-0-0
Intermediate Topics in Pacific and Asian Studies
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s):
• 6 units of PAAS courses; and
• Academic Writing Requirement satisfied; or
• permission of the department.
PAAS 397 Units: 1.5 or 3.0
Field School in Pacific and Asian Studies
Opportunity for students from PAAS and the broader university community to gain direct, thematic research experience in Asia.
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 6 units.
Prerequisite(s): Academic Writing Requirement satisfied.

PAAS 398 Units: 1.5 Hours: 3-0-0
Asia-Pacific Experience Research Project
The academic component for students in an exchange, study abroad term, co-op placement or internship in the Asia-Pacific region. Students create a research and analysis project based on their exchange experience, aspects of which are determined in advance in consultation with a departmental instructor.
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.
Prerequisite(s): Academic Writing Requirement satisfied.

PAAS 399 Units: 1.5 Hours: 3-0-0
Also: LING 396
Formerly: JAPA 396
Sociolinguistic Issues in Japanese
Examines the Japanese language in its social context. A wide range of sociolinguistic topics will be covered, including non-verbal communication and types of Japanese spoken outside of Japan. Attention will be given to linguistic, dialectal, and stylistic variation in speech communities, and to sociolinguistic considerations such as class, gender, and social setting.
Note: Credit will be granted for only one of PAAS 399, JAPA 396, LING 396.
Prerequisite(s):
• Minimum second-year standing; and
• Academic Writing Requirement satisfied.

PAAS 400 Units: 1.5 Hours: 3-0-0
Formerly: PACI 490A
Advanced Research Seminar
Leads to the research and writing of a major paper on a theme relevant to the Asia-Pacific.
Note: Credit will be granted for only one of PAAS 400, PACI 490A.
Prerequisite(s):
• One of PAAS 300, PAAS 301, PAAS 302, PAAS 304; and
• Academic Writing Requirement satisfied.

PAAS 403 Units: 1.5 Hours: 3-0-0
Capitalist Economy and the Asia-Pacific
Examines the current situation of the Asia-Pacific under the rubric of globalization with an emphasis on the changing nature of capitalism economy as well as relevant theories.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied.

PAAS 404 Units: 1.5 Hours: 3-0-0
Asian Horror Cinema
Examines Asian horror cinema as a reaction/response to social change and trauma through representative works from China, Hong Kong, Japan, Korea, Taiwan and/or Thailand.
Note: No knowledge of Asian languages required.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.

PAAS 406 Units: 1.5 Hours: 3-0-0
Ideology and Cultural Conflict in the Asia-Pacific
Examines cultural conflict in literature, theatre, film, music and graphic arts.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.

PAAS 409 Units: 1.5 Hours: 3-0-0
Globalization, Cosmopolitanism and Asian-Pacific Cultures
Explores the ways in which cultural writers, filmmakers and popular musicians in the Asia-Pacific region attempt to make sense of their worlds and construct identities in literature, film and songs.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.

PAAS 410 Units: 3.0 Hours: 3-0-0
Formerly: CHIN 420
Advanced Mandarin for Native Speakers of Chinese
Intended for literate speakers of Chinese. Reading and discussion from the Chinese literary and cultural traditions.
Notes:
Credit will be granted for only one of PAAS 410, CHIN 420 (if taken in the same topic).
May be taken more than once for credit in different topics with permission of the department to a maximum of 6 units.
Not open to non-native speakers.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.

PAAS 411 Units: 1.5 or 3
Formerly: CHIN 480
Directed Readings in Chinese Language
Extensive readings chosen in consultation with the instructor.
Notes:
Credit will be granted for only one of PAAS 411, CHIN 480 (if taken in the same topic).
May be taken more than once for credit with permission of the department.
Not open to native speakers of Chinese.
Prerequisite(s):
• PAAS 318 with a minimum grade of B; and
• Academic Writing Requirement satisfied; or
• permission of the department.

PAAS 412 Units: 1.5 Hours: 3-0-0
Formerly: PAAS 310, CHIN 349A
Understanding Chinese Media
Develops students' proficiency in the language of Chinese online media, newspapers, magazines, film, and television, through exercises in reading and listening comprehension. Students will also refine translation skills.
Notes:
• Credit will be granted for only one of PAAS 412, PAAS 310, CHIN 349, CHIN 349A, CHIN 400.
• Not open to native speakers.
Prerequisite(s):
• PAAS 318 with a minimum grade of B; and
• Academic Writing Requirement satisfied; or
• permission of the department.

PAAS 413 Units: 1.5 Hours: 3-0-0
Formerly: PAAS 311, CHIN 349B
Effective Communication in Chinese
Advances students' abilities in communication in Chinese, both oral (including everyday conversation, work-related discussions, and formal presentations) and written (including reports and correspondence).
Notes:
• Credit will be granted for only one of PAAS 413, PAAS 311, CHIN 349, CHIN 349B, CHIN 400.
• Not open to native speakers.
Prerequisite(s):
• PAAS 318 with a minimum grade of B; and
• Academic Writing Requirement satisfied; or
• permission of the department.

PAAS 418 Units: 1.5 Hours: 3-0-0
Formerly: PAAS 312, CHIN 310A
Classical Chinese Prose
Introduces the key features of grammar, syntax and usage of literary Chinese, employing intensive study of a set of readings in the language. Readings will be of literary texts ranging from pre-Han to the Song dynasty.
Note: Credit will be granted for only one of PAAS 418, PAAS 312, CHIN 310A.
Prerequisite(s):
• For non-native speakers:
• PAAS 318 with a minimum grade of B; and
• Academic Writing Requirement satisfied; or
• permission of the department.
• For native speakers:
• Academic Writing Requirement satisfied.

PAAS 420 Units: 1.5 Hours: 3-0-0
Formerly: CHIN 400
Chinese Narrative
Studies traditional Chinese narrative literature through reading of early historiographic writing, narrative poetry, poetic history, ancient-style prose, drama, novella and fiction. Traditional Chinese narrative theory is introduced.
Prerequisite(s):
• For non-native speakers:
• PAAS 318 with a minimum grade of B; and
• Academic Writing Requirement satisfied; or
• permission of the department.
• For native speakers:
• Academic Writing Requirement satisfied.
PAAS 430  Units: 1.5  Hours: 3-0-0  
Formerly: JAPA 403A, JAPA 403B  
Seminar in Modern Japanese Literature  
Intended for advanced students prepared to read literary texts in modern Japanese. Course content may include contemporary fiction, drama and/or poetry, and may vary from year to year. May be taken by native speakers.  
**Notes:**  
• Credit will be granted for only one of PAAS 430, JAPA 403A (if taken in the same topic), JAPA 403B (if taken in the same topic).  
• May be taken more than once for credit in different topics with permission of the department.  
**Prerequisite(s):** Academic Writing Requirement satisfied.  
**Pre- or Corequisite(s):** One of PAAS 331 with a minimum grade of A, PAAS 341 with a minimum grade of A, PAAS 342 with a minimum grade of A, JAPA 312 with a minimum grade of A, JAPA 313 with a minimum grade of A, or permission of the department.  

PAAS 432  Units: 1.5 or 3.0  
Formerly: JAPA 480  
Directed Readings in Japanese  
Designed for advanced students prepared to read extensively in Japanese. Readings will be assigned by the instructor in consultation with the participating students.  
**Notes:**  
• Credit will be granted for only one of PAAS 432, JAPA 480 (if taken in the same topic).  
• May be taken more than once for credit in different topics with permission of the department.  
**Prerequisite(s):** Academic Writing Requirement satisfied.  
**Pre- or Corequisite(s):** One of PAAS 331 with a minimum grade of A, PAAS 332 with a minimum grade of A, PAAS 341 with a minimum grade of A, PAAS 342 with a minimum grade of A, JAPA 312 with a minimum grade of A, JAPA 313 with a minimum grade of A, or permission of the department.  

PAAS 452  Units: 1.5  Hours: 3-0-0  
Acquisition of Chinese as an Additional Language  
Advanced study of the fundamental concepts related to second language acquisition (SLA). Research themes related to the acquisition of Chinese as an additional language. Examines learner language, language learning motivations, language learning strategies and other factors pertinent to SLA and the theory and practice of acquisition of Chinese as an additional language.  
**Note:** Credit will be granted for only one of PAAS 452, PAAS 497 (if taken in the same topic).  
**Prerequisite(s):**  
• For non-native speakers:  
  • One of PAAS 211 with a minimum grade of B, PAAS 318 with a minimum grade of B, CHIN 249B with a minimum grade of B; and  
  • Academic Writing Requirement satisfied; or  
  • permission of the department.  
• For native speakers:  
  • Academic Writing Requirement satisfied.  

PAAS 455  Units: 1.5  Hours: 3-0-0  
Formerly: CHIN 307  
Authors in Contemporary Chinese Literature  
A study of works of fiction, drama and/or film on a single topic or by a single major figure from the 20th and 21st centuries. Chinese and English versions of all primary texts are available.  
**Note:** Credit will be granted for only one of PAAS 455, CHIN 307.  
**Prerequisite(s):**  
• PAAS 302; and  
• Academic Writing Requirement satisfied; or  
• permission of the department.  

PAAS 456  Units: 1.5  Hours: 3-0-0  
Thematic Study of Contemporary Chinese Literature in Translation  
Intensive study of a small number of works of fiction, drama and/or film on a single theme from the 20th or early 21st centuries.  
**Prerequisite(s):**  
• One of PAAS 301, PAAS 302, PAAS 354, PAAS 355, PAAS 356, and  
• Academic Writing Requirement satisfied; or  
• permission of the Department.  

PAAS 457  Units: 1.5  Hours: 3-0-0  
Authors in Classical Chinese Literature  
Studies of a number of works of poetry, prose or both by one major literary figure of the Tang Dynasty. Readings are in Chinese.  
**Prerequisite(s):**  
• For non-native speakers:  
  • PAAS 318 with a minimum grade of B, and  
  • Academic Writing Requirement satisfied; or  
  • permission of the department.  
• For native speakers:  
  • Academic Writing Requirement satisfied.  

PAAS 458  Units: 1.5  Hours: 3-0-0  
Themes in Classical Chinese Literature  
Studies of a number of works of poetry, prose, or historiography on a single theme from earliest times to the Qing Dynasty. Readings are in Chinese.  
**Prerequisite(s):**  
• For non-native speakers:  
  • PAAS 318 with a minimum grade of B, and  
  • Academic Writing Requirement satisfied; or  
  • permission of the department.  
• For native speakers:  
  • Academic Writing Requirement satisfied.  

PAAS 459  Units: 1.5  Hours: 3-0-0  
Formerly: CHIN 461  
Directed Readings in Chinese Linguistics  
Advanced course taught in Mandarin. Intended for students who are prepared to read and discuss extensively in Mandarin. Covers aspects of the Chinese language within the general framework of modern linguistics. Topics covered may include Mandarin sound system, pinyin romanization, writing system, word structures, sentence structures, dialect research, national minority languages and language planning in the People’s Republic of China.  
**Note:** Credit will be granted for only one of PAAS 459, CHIN 461.  
**Prerequisite(s):**  
• For non-native speakers:  
  • PAAS 318; and  
  • Academic Writing Requirement satisfied; or  
  • permission of the department.  
• For native speakers:  
  • Academic Writing Requirement satisfied.  

PAAS 464  Units: 1.5  Hours: 3-0-0  
Formerly: PACI 413  
Topics in Studies of Australasia  
Examines issues and topics on Australia and adjacent areas.  
**Note:** Credit will be granted for only one of PAAS 464, PACI 413.  
**Prerequisite(s):**  
• Minimum third-year standing; and  
• Academic Writing Requirement satisfied.  

PAAS 484  Units: 1.5  Hours: 3-0-0  
Identity in Animated Japanese Cinema  
Analysis of the arguments various Japanese animated films make about the theme of identity and its relationship to individual, social, national and spiritual dimensions of contemporary Japan. Also considers the identity of genre in works of art.  
**Note:** Credit will be granted for only one of PAAS 484, PAAS 487 (if taken in Sep-Dec 2011), JAPA 324B.  
**Prerequisite(s):**  
• Minimum third-year standing; and  
• Academic Writing Requirement satisfied; or  
• permission of the department.  

PAAS 485  Units: 1.5  Hours: 3-0-0  
Thematic Study of Contemporary Chinese Literature  
A comparative multi-disciplinary survey of urban transition in Asia. Several case studies introduce patterns and processes which challenge conventional theories of urbanization, and highlight implications for the future of urban societies in Asia.  
**Prerequisite(s):**  
• Minimum third-year standing; and  
• Academic Writing Requirement satisfied; or  
• permission of the department.
PAAS 485 Units: 1.5 or 3.0 Hours: 3-0-0
Formerly: JAPA 358
Seminar in Japanese Language, Literature and Culture
Examines selected topics related to Japanese language, literature or cultural studies.
Notes:
• Credit will be granted for only one of PAAS 485, JAPA 358 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied.

PAAS 486 Units: 1.5 Hours: 3-0-0
Formerly: part of PAAS 394, also THEA 412
Modern Japanese Theatre
Surveys Japanese theatre history from the nineteenth century until the present day. Covers the reform of kabuki and emergence of such modern theatre genres as shingenta, shinjuku, and bunraku. Drama, dance and other performance arts are discussed.
Note: Credit will be granted for only one of PAAS 486, JAPA 320A, THEA 412 (if taken prior to May 2011).
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.

PAAS 487 Units: 1.5 Hours: 3-0-0
Formerly: JAPA 324B
Trends in Japanese Cinema, 1960 to Present
Topics in cinema.
Note: Credit will be granted for only one of PAAS 487, JAPA 324B.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.

PAAS 488 Units: 1.5 Hours: 3-0-0
Japanese Fantasy
Fantasy in Japanese literature, film, anime and science fiction.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.

PAAS 493 Units: 1.5 Hours: 3-0-0
Seminar in Buddhism in English
Buddhist literature from a variety of primary sources. Students will engage in a close reading of selected texts, with additional secondary literature and commentaries.
Note: Credit will be granted for only one of PAAS 493, RS 493.
Prerequisite(s):
• PAAS 204 or RS 208; and
• Academic Writing Requirement satisfied; or
• permission of the department.

PAAS 494 Units: 1.5 Hours: 3-0-0
Special Topics in Translating Asian Languages
Theories and processes of translation, from an Asian language into English. May be offered in Chinese, Indonesian, or Japanese.
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
Prerequisite(s): Academic Writing Requirement satisfied.

PAAS 495 Units: 1.5 Hours: 3-0-0
Advanced Topics in Pacific and Asian Studies
Offered in English.
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.

PAAS 496 Units: 1.5 Hours: 3-0-0
Directed Studies in Pacific and Asian Studies
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.

PAAS 497 Units: 1.5 Hours: 3-0-0
Special Topics in Asian Languages
Offered in Chinese, Japanese or Indonesian. Consult members of the faculty for subjects and availability.
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.

PAAS 498 Units: 1.5 Hours: 3-0-0
Japanese Fantasy
Fantasy in Japanese literature, film, anime and science fiction.
Prerequisite(s):
• Minimum third-year standing; and
• Academic Writing Requirement satisfied; or
• permission of the department.

PAAS 499 Units: 1.5 Hours: 3-0-0
Honours Thesis
The writing of an Honours Thesis of at least 10,000 words.
Note: Credit will be granted for only one of PAAS 499, PACI 490, PACI 490B.
Prerequisite(s):
• PAAS 400; and
• declared Honours in Pacific and Asian Studies; and
• Academic Writing Requirement satisfied.

PHIL 100 Units: 3.0 Hours: 3-0-0
Introduction to Philosophy
Central works in the history of Western philosophy, with a principal goal of fostering the capacity to think logically and critically. Questions will include: Does God exist? Is knowledge possible? Do humans have free will? What is justice? Figures studied may include: Plato, Aristotle, Descartes, Leibniz, Berkeley, Hume, Kant, Mill and Nietzsche.

PHIL 173 Units: 1.5 Hours: 3-0-0
Reasoning in the Sciences and Engineering
Develops critical thinking skills needed for understanding and evaluating arguments in the natural sciences and engineering. Topics covered will include: assessing the worth of causal and statistical hypotheses; evaluating evidence; apportioning the value of contentious ideas; examining the development of knowledge in the sciences and engineering.

PHIL 201 Units: 1.5 Hours: 3-0-0
Critical Thinking
An analysis of simple argument forms in natural language with close attention to the different uses of language in an argumentative context. A treatment of elementary principles of inductive logic, decision making, syllogistic reasoning, and informal fallacies.
Note: Designed as a first course in logic for students with little or no symbolic orientation; it may be taken before or after Phil 203.

PHIL 203 Units: 1.5 Hours: 3-0-0
Elementary Formal Logic
Explores the fundamentals of good reasoning by means of symbolic techniques in both propositional and predicate logic. Students will learn to translate English sentences into logical notation, as well as how to use truth tables and derivations to demonstrate the validity of arguments.
Note: Designed as a first course in logic for students with little or no symbolic orientation. May be taken before or after Phil 201.

PHIL 207A Units: 1.5 Hours: 3-0-0 or 2-1-0
Introduction to Ancient Philosophy
Central thinkers, topics and concepts in ancient Greek and Roman philosophy. Topics and figures may include: the teachings of the pre-Socratics (Parmenides, Heracleitus, and others), Plato and Aristotle; doctrines of the Hellenistic period such as Stoicism, Epicureanism and Skepticism; Neo-Platonic schools of thought; the ways these ancient philosophers and theories have continued to influence philosophy through medieval, modern and contemporary periods.
PHIL 208  Units: 1.5  Hours: 3-0-0
Introduction to Islamic Philosophy
Islamic philosophy from the 9th - 12th century CE. Topics include a brief introduction to ancient Greek philosophy that was influential on Muslim thinkers and an introduction to the thought of al-Farabi, Ibn Sina (Avicenna), al-Ghazali (Algazel) and Ibn Rushd (Averroes). Their influence on medieval European philosophy will also be discussed.
Recommendation(s): PHIL 207A recommended prior to PHIL 208.

PHIL 210  Units: 1.5 Hours: 3-0-0 or 2-1-0
Introduction to Early Modern Philosophy
Central thinkers, topics and concept in the early modern period of philosophy (1500-1799). Topics and figures covered may include Descartes, Malebranche, Locke, Hume, Berkeley, Spinoza, Leibniz; universals, space and time, knowledge, abstraction, concepts and substance.

PHIL 211  Units: 1.5 Hours: 3-0-0
Introduction to Existentialism
The themes and method of existentialism. Surveys the writings of a number of existentialists. Questions to be addressed include: Can the individual realize an authentic form of existence in a technological society dedicated to the ideals of comfort, efficiency, and security? Why have existentialists been so vehemently attacked and how have they responded?

PHIL 220  Units: 1.5 Hours: 3-0-0
Introduction to Philosophy of Science
The epistemological and ethical issues concerning science as a method of gaining knowledge about the world. Epistemological issues may include the distinction between science and non-science, the logic of explanation and the logic of confirmation. Ethical issues may include the ethics of experimentation with humans, animals, or the environment, the social consequences of scientific knowledge or technology and the community control of research.
Note: Credit will be granted for only one of PHIL 220, PHIL 222A, PHIL 222B.

PHIL 223  Units: 1.5 Hours: 3-0-0
Introduction to Philosophy of the Social Sciences
Philosophical issues in and raised by research in the social sciences. Topics may include: What is supposed to be scientific about the social sciences? How do the social sciences differ from the natural sciences and from the humanities? What makes a phenomenon “social”? Are some approaches and methodologies more suited to social investigation than others? Is objectivity possible or desirable in the study of social phenomena?

PHIL 225  Units: 1.5 Hours: 3-0-0
Death and Dying
Focuses on thinking about end of life issues from a philosophical perspective. Readings are drawn from the history of philosophy and from contemporary philosophy. Topics include the problem of defining death, whether death is an evil to be feared, the relationship between death and a meaningful life, the morality and rationality of suicide and the issue of physician assisted suicide and euthanasia.
Note: Credit will be granted for only one of PHIL 225, PHIL 290 (if taken as section A01 in Sep-Dec 2008, section A01 in Sep-Dec 2010, section A01 in Sep-Dec 2011, or as section A02 in Jan-Apr 2014, or as section A01 in Jan-Apr 2016, or as section A01 in Sep-Dec 2016).

PHIL 232  Units: 1.5 Hours: 3-0-0
Moral Problems of Contemporary Society
Philosophical introduction to a variety of controversial issues in contemporary society, focusing on understanding and critically assessing the practical ethical dimensions of such topics as abortion, euthanasia, the treatment of animals, violence and war, environmental protection, punishment, racism and free speech.

PHIL 235  Units: 1.5 Hours: 3-0-0 or 2-0-1
Ethics of Violence, War and Terrorism
A philosophical investigation of the moral problems that arise in the context of violence, war and terrorism. Topics may include: moral justifications for war and other forms of political violence; moral limits on tactics and weaponry; humanitarian intervention and the duty to prevent; the coherence and limits of moral distinctions between combatants and non-combatants; transitional justice; the ethics of torture.

PHIL 236  Units: 1.5 Hours: 3-0-0
Introduction to Social and Political Philosophy
The central concepts and issues in social and political philosophy. Topics may include: the origins and limits of political authority; the nature and limits of individual rights; the moral claims of communities and groups; the coherence of distinctions between public and private; the coherence of distinctions between natural and social.

PHIL 238  Units: 1.5 Hours: 3-0-0
Philosophy in Literature
Explores philosophical theories and themes as these find expression in literature. Readings may range over the literature of many countries and will not necessarily be confined to works in the Western tradition.

PHIL 239  Units: 1.5 Hours: 3-0-0
Philosophy and Feminism
An introduction to philosophical issues raised in and by feminist thought. Topics may include: the influence of feminist perspectives on the framing and study of philosophical problems; an examination of concepts, issues, and arguments underlying feminist claims; liberal feminism; Marxist feminism; radical feminism; feminism and race; an examination of current issues such as gender essentialism, pornography, mothering, and reproductive rights from a feminist perspective.
Note: Consult annual Departmental Handbook for details in any given year.

PHIL 240  Units: 1.5 Hours: 3-0-0
Introduction to Philosophy of Art
Questions to be addressed include: What is art? What makes art valuable? How is art to be evaluated? Is the value of art relative to audiences? Is art a source of knowledge? What moral issues arise in connection with the arts?
Note: Credit will be granted for only one of PHIL 240, PHIL 242.

PHIL 251  Units: 1.5 Hours: 3-0-0 or 2-0-1
Knowledge, Certainty and Skepticism
An introduction to central concepts, issues and theories in epistemology (the theory of knowledge). Topics will be drawn from the following list: knowledge, skepticism, evidence, rational belief, doubt, justification, certainty.
Note: Credit will be granted for only one of PHIL 251, PHIL 250.

PHIL 252  Units: 1.5 Hours: 3-0-0 or 2-0-1
Introduction to Metaphysics
An investigation of the ultimate nature of reality. Historical and contemporary writings deal with such topics as: substance; monism vs. pluralism; universals vs. particulars; realism vs. nominalism; mind and matter; God; causation and change; possibility and necessity; space and time.
Note: Credit will be granted for only one of PHIL 252, PHIL 250.

PHIL 260  Units: 1.5 Hours: 3-0-0
Introduction to Philosophy of Mind
An introduction to the study of mind and its place in nature. Typical issues: Is the mind physical or non-physical? How is the mind related to the body and the rest of nature? Are conscious mental processes just neurophysical processes? Is thought nothing but computation? Can we know the presence and nature of other minds? Are animals, plants, or machines conscious? Can the mind be explained scientifically?
Note: Credit will be granted for only one of PHIL 260, PHIL 414.

PHIL 261  Units: 1.5 Hours: 3-0-0
Philosophy of Religion
A consideration of some of the conclusions that have emerged from a philosophical examination of such religious questions as: the existence of God, survival after death, the problem of evil, the significance of religious ignorance, etc. Class discussion will be much emphasized.
Note: Credit will be granted for only one of PHIL 261, PHIL 214.

PHIL 290  Units: 1.5 or 3.0 Hours: 3-0-0 or 2-0-1
Introduction to Selected Topics
Introductory investigations of a selected philosophical topic.
Note: May be taken more than once for credit in different topics with permission of the department.

PHIL 301  Units: 1.5 Hours: 3-0-0
Plato
A philosophical examination of one or more Platonic dialogues.
Note: Credit will be granted for only one of PHIL 301, PHIL 421.
Prerequisite(s):
•  4.5 units of PHIL courses; or
•  permission of the department.
| COURSE LISTINGS PHIL | 549 |

**PHIL 303**

**Aristotle**
A study of one or more of the philosophical writings of Aristotle.

**Note:** Credit will be granted for only one of PHIL 303, PHIL 242.

**Prerequisite(s):**
- 4.5 units of PHIL courses; or
- permission of the department.

**PHIL 305A**

Formerly half of PHIL 305

Early Medieval Philosophy
An examination of the philosophical basis of early medieval thought and of major thinkers in the Christian, Islamic and Jewish traditions from the 5th to the 12th century CE.

**Note:** Credit will be granted for only one of PHIL 305A, PHIL 245, PHIL 305.

**Prerequisite(s):**
- 4.5 units of PHIL courses; or
- permission of the department.

**PHIL 305B**

Formerly half of PHIL 305

Later Medieval Philosophy
An examination of medieval philosophical thought in the 13th and 14th centuries.

**Note:** Credit will be granted for only one of PHIL 305B, PHIL 245, PHIL 305.

**Prerequisite(s):**
- 4.5 units of PHIL courses; or
- permission of the department.

**PHIL 306**

The Rationalists
Studies in depth the so-called "continental rationalists". Examines the positions of representative figures, and relates them to each other. Emphasis is on the rationalists' preoccupation with a priori necessary truths and the principle of sufficient reason vis-a-vis their theories of perception and knowledge.

**Prerequisite(s):**
- 4.5 units of PHIL courses; or
- permission of the department.

**PHIL 308**

The Empiricists
Studies the major writings of Locke, Berkeley and Hume, with emphasis on metaphysics and epistemology.

**Note:** Credit will be granted for only one of PHIL 308, PHIL 310.

**Prerequisite(s):**
- 4.5 units of PHIL courses; or
- permission of the department.

**PHIL 309**

Kant
Studies Kant's epistemology and metaphysics, principally as presented in The Critique of Pure Reason.

**Note:** Credit will be granted for only one of PHIL 309, PHIL 310.

**Recommendation(s):** PHIL 306 or PHIL 308 strongly recommended prior to PHIL 309.

**PHIL 311**

Existentialist Thinkers
Focuses on one or two of the great philosophers in the tradition of existentialism and phenomenology, such as Nietzsche, Sartre, Merleau-Ponty, Camus, Kierkegaard and Heidegger.

**Prerequisite(s):**
- PHIL 211; or
- permission of the department.

**PHIL 314**

19th-Century Philosophy
An examination of one or more figures or themes in 19th-century Philosophy.

**Prerequisite(s):**
- 4.5 units of PHIL courses; or
- permission of the department.

**PHIL 316**

History of Analytic Philosophy
An examination of several figures and/or ideas central to the development of 20th-century analytic philosophy.

**Prerequisite(s):**
- PHIL 203 and 3 units of PHIL courses; or
- permission of the department.

**PHIL 321**

Philosophy of Medicine
An examination of how our philosophical conceptions of the nature of mind and body affect the goals and practice of medicine. Topics covered may include: Is medicine an art or a science? What is health? What counts as disease? What is mental illness? Empiricism vs. Realism in medical thinking. Hemereneutics in medicine, causality in medicine, Western vs. Eastern medicine.

**Note:** May not be counted towards upper-level requirements in Honours or Major programs in Philosophy.

**PHIL 330**

Professional and Business Ethics
An examination of ethical issues arising in the contemporary professional and business setting; emphasis is on the mastery of representative ethical systems and concepts and their application to actual situations.

**Note:** May not be counted towards upper-level requirements in Honours or Major programs in Philosophy.

**PHIL 333**

Philosophy and the Environment
A philosophical investigation of the moral and conceptual dimensions of environmental problems. Different philosophies of the relation between humans and nature will be compared.

**Notes:**
- Credit will be granted for only one of PHIL 333, ES 314.
- May not be counted towards upper-level requirements in Honours or Major programs in Philosophy.

**Prerequisite(s):**
- Minimum third-year standing; or
- permission of the department.

**PHIL 335**

Contemporary Moral Philosophy
An inquiry into basic issues and theoretical perspectives in moral philosophy. Some classic texts in moral philosophy will be studied but emphasis will be on contemporary literature and debates. Topics may include consequentialism, Kantianism, contractarianism and contractualism.

**Note:** Credit will be granted for only one of PHIL 335, PHIL 302.

**Prerequisite(s):**
- 4.5 units of PHIL courses; or
- permission of the department.

**PHIL 336**

Philosophy of Law
An examination of relationships among law, politics and morality. Topics may include: the nature and foundations of law; how legal reasoning relates to moral and other reasoning; civil disobedience; the nature and foundation of legal obligations; theories of punishment; the nature and justification of individual and group rights; the nature and justification of international legal institutions.

**Note:** Credit will be granted for only one of PHIL 336, PHIL 328.

**Prerequisite(s):**
- 4.5 units of PHIL courses; or
- permission of the department.

**PHIL 337**

Ethics: Theory and Practice
A survey of the foundations of moral reasoning and judgment that examines the origins of contemporary normative theories and their relevance to practical ethical issues. Intended primarily for students pursuing the Minor in Applied Ethics, but is open to other students.

**Prerequisite(s):**
- PHIL 232; or
- permission of the department.

**PHIL 338**

Meta-ethics
An examination of philosophical issues and theories arising from consideration of the epistemic, metaphysical and semantic features of value judgments. Topics may include moral relativism, moral skepticism, non-cognitivism, nihilism, constructivism, moral realism and moral anti-realism.

**Prerequisite(s):**
- 4.5 units of PHIL courses; or
- permission of the department.
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<td><strong>Theory of Justice</strong></td>
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<td>An examination of problems in and approaches to contemporary political philosophy. Topics may include equality, freedom, structural injustice, the interrelationship between racial, gender, class and cultural oppression, injustices across borders and the coherence and cross-cultural justification of human rights.</td>
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| **PHIL 351**           | 1.5   | 3-0-0 |
| **Epistemology**       |       |       |
| An examination of current issues and theories in epistemology. Topics may include: theories of justification; internalism/externalism; foundationalism; coherenceism; naturalism; epistemic virtue; the goal of truth; relativism; social epistemology. |
| Prerequisite(s):       |       |       |
| • 4.5 units of PHIL courses; or |
| • permission of the department. |

| **PHIL 352**           | 1.5   | 3-0-0 |
| **Metaphysics**        |       |       |
| Metaphysics concerns the ultimate nature of reality. This course is an intermediate survey of some central issues in metaphysics, including: existence, matter, space, time, causation, emergence, universals, and possibility and necessity. |
| Prerequisite(s):       |       |       |
| • PHIL 203 and 3 units of PHIL courses; or |
| • permission of the department. |

| **PHIL 354**           | 1.5   | 3-0-0 |
| **Philosophy of Language** |       |       |
| An examination of topics in philosophy of language. Topics may include theories of reference and theories of meaning and theories of truth. |
| Prerequisite(s):       |       |       |
| • PHIL 203 and 3 units of PHIL courses; or |
| • permission of the department. |

| **PHIL 356**           | 1.5   | 3-0-0 |
| **Philosophy of Science** |       |       |
| An examination of problems in and approaches to science as a method of gaining knowledge about the world. Topics may include: the logic of explanation and the logic of confirmation; the ethics of experimentation; the social consequences of scientific knowledge or technology; community control of research. |
| Prerequisite(s):       |       |       |
| • 4.5 units of PHIL courses; or |
| • permission of the department. |

| **PHIL 358**           | 1.5   | 3-0-0 |
| **Theory of Perception** |       |       |
| A study of philosophical issues that pertain both to the psychology of perception and the theory of knowledge. Includes the respective merits of realist, representationalist and phenomenalist theories of perception. |
| Note:                  |       |       |
| Credit will be granted for only one of PHIL 358, PHIL 418, PHIL 453. |
| Prerequisite(s):       |       |       |
| • 4.5 units of PHIL courses; or |
| • permission of the department. |

| **PHIL 360**           | 1.5   | 3-0-0 |
| **Philosophy and Film** |       |       |
| Explores the portrayal of philosophical ideas in film, analyzing a selection of philosophical films with regard to their content, form and effect on the viewer. Readings from philosophy, film theory, aesthetics and cultural studies will complement viewing of films. |
| Notes:                 |       |       |
| • Credit will be granted for only one of PHIL 360, PHIL 290 (if taken as section A01 in Jan-Apr 2015 or as section A01 in Jan-Apr 2016). |

| **PHIL 362**           | 1.5   | 3-0-0 |
| **Philosophy of Mind** |       |       |
| An intermediate survey of philosophy of mind, focusing on two broad questions: what is the nature of various mental (especially conscious) states (such as beliefs, perceptual experiences, and emotions)? and what is the relationship between mind and body (or, is the mental part of the physical world)? |
| Note:                  |       |       |
| Credit will be granted for only one of PHIL 362, PHIL 342A. |
| Prerequisite(s):       |       |       |
| • 4.5 units of PHIL courses; or |
| • permission of the department. |

| **PHIL 370**           | 1.5   | 3-0-0 |
| **Theoretical Logic**  |       |       |
| Treatment and justification of formal logic from a theoretical point of view: ideal formal languages developed, and their relationship to natural languages discussed. Syntactic and semantic theories formalized for the analysis of complex deductive arguments. The metatheory of formal logic, relating the syntactic theories and the semantic theories, developed. Topics may include consistency, compactness, soundness and completeness. |
| Note:                  |       |       |
| Credit will be granted for only one of PHIL 370, PHIL 304A. |
| Prerequisite(s):       |       |       |
| • PHIL 203 or MATH 122; or |
| • permission of the department. |

| **PHIL 371**           | 1.5   | 3-0-0 |
| **Logic**              |       |       |
| Studies a particular branch of formal logic. Topics may include set theory, incompleteness and undecidability, modal or other non-classical logics. |
| Note:                  |       |       |
| Credit will be granted for only one of PHIL 371, PHIL 304B. |
| Prerequisite(s):       |       |       |
| • PHIL 203; or |
| • permission of the department. |

| **PHIL 375**           | 1.5   | 3-0-0 |
| **Philosophy of Mathematics** |       |       |
| Introduces problems in the philosophy of mathematics. Topics may include the nature of mathematical objects, the status of the infinite in mathematics, the relationship between mathematics and natural science/physical reality. |
| Note:                  |       |       |
| Credit will be granted for only one of PHIL 375, MATH 375. |
| Prerequisite(s):       |       |       |
| • One of PHIL 203, PHIL 304A, PHIL 370, MATH 122, MATH 360. |

| **PHIL 379**           | 1.5   | 3-0-0 |
| **Early Greek Thought** |       |       |
| Examination of early Greek thought as embodied in Hesiod and Presocratics such as Heraclitus, Anaxagoras, Parmenides and Democritus. These figures may be considered in the context of historical and literary writings of their society (e.g., works by Aeschylus, Herodotus, Thucydides). Topics may include: distinctions among myth, science and philosophy; notions of law, morality, and causality; the influence of early Greek thought on later thinkers. |
| Notes:                 |       |       |
| • Credit will be granted for only one of PHIL 379, PHIL 381, GRS 379, CLAS 379 |
| • Does not presuppose a background in either Greek and Roman studies or Philosophy. |
| Recommendation(s):     |       |       |
| Minimum third-year standing recommended. |

| **PHIL 383**           | 1.5   | 3-0-0 |
| **The Life and Times of Socrates** |       |       |
| Examination of a critical moment in Greek intellectual and political life, as seen from various points of view. Topics include: Socrates' trial and its background; the rise of the Socratic conception of philosophy and its relation to the methods of the Sophists; perceived Socratic challenges to religious and social mores; written vs. unwritten philosophy; types of Socratic literature. |
| Note:                  |       |       |
| Credit will be granted for only one of PHIL 383, GRS 380, CLAS 380. |
| Recommendation(s):     |       |       |
| Minimum third-year standing recommended. |

| **PHIL 390**           | 1.5-3.0| 3-0-0 |
| **Topics in Philosophy** |       |       |
| Investigations of a selected philosophical topic. |
| Note:                  |       |       |
| May be taken more than once for credit in different topics with permission of the department. |
| Prerequisite(s):       |       |       |
| • 6 units of PHIL courses; or |
| • permission of the department. |

| **PHIL 391**           | 1.5 or 3.0| 3-0-0 |
| **Directed Studies in Philosophy** |       |       |
| Under the supervision of a faculty member and with the approval of the Chair of the department. |
| Note:                  |       |       |
| Credit will be granted for only one of PHIL 391, PHIL 348 (if taken in the same topic). |
| Prerequisite(s):       |       |       |
| • 4.5 units of PHIL courses; or |
| • permission of the department. |

<p>| <strong>PHIL 420</strong>           | 1.5   | 3-0-0 |
| <strong>Advanced Topics in Philosophy of Science</strong> |       |       |
| Investigation of the methodology, epistemology and ontology of science. Topics may include the logic of explanation, the logic of confirmation, the rationality of theory acceptance, the rationality of scientific revolutions, the unity of science, or the reality of theoretical entities. |
| Note:                  |       |       |
| Credit will be granted for only one of PHIL 420, PHIL 222A, PHIL 320. |
| Prerequisite(s):       |       |       |
| • PHIL 356; or |
| • permission of the department. |</p>
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</table>

**PHIL 424 - Advanced Studies in Ancient Philosophy**
Investigation of central figures and/or topics in ancient philosophy. Philosophical figures in the ancient world from the time of the pre-Socratics through to the Hellenistic and Neo-Platonic schools may be considered. Topics may include the nature of reality, theories of truth, ethical theories, psychological issues, political theory, or issues in logic and theories of meaning.

**Prerequisite(s):**
- One of PHIL 301, PHIL 303, PHIL 307; or
- permission of the department.

**PHIL 425 - Advanced Studies in Plato**
Investigation of problems and topics in the philosophy of Plato including questions, issues and controversies related to Plato’s metaphysics, epistemology, ethics, political philosophy, moral psychology, cosmology, or his theories of language and perception. May also include Plato’s influence on successors in ancient philosophy.

**Prerequisite(s):**
- One of PHIL 301, PHIL 303, PHIL 307; or
- permission of the department.

**PHIL 426 - Major Figures in Ancient Philosophy**
Investigation of one or more major figures in ancient philosophy.

**Note:** Credit will be granted for only one of PHIL 426, PHIL 490 (if taken in the same topic).

**Prerequisite(s):**
- One of PHIL 301, PHIL 303, PHIL 307; or
- permission of the department.

**PHIL 427 - Advanced Studies in Early Modern Philosophy**
Investigation of a central topic or major figure in the early modern period of philosophy (1500-1799)

**Note:** Credit will be granted for only one of PHIL 427, PHIL 490 (if taken in the same topic).

**Prerequisite(s):**
- One of PHIL 306, PHIL 308, PHIL 309; or
- permission of the department.

**PHIL 430 - Advanced Ethics**
An advanced investigation of contemporary debates in ethical theory, including issues in normative ethics and metaethics.

**Prerequisite(s):**
- One of PHIL 335, PHIL 337, PHIL 338; or
- permission of the department.

**PHIL 431 - Advanced Biomedical Ethics**
An in-depth study of selected topics in biomedical ethics. Content will vary, but will usually include such topics as informed consent, experimentation, professional/client and professional/professional relationships, allocation of resources, administrative procedures, etc. Methodology will include the use of video tape role plays and student presentation/analysis.

**Prerequisite(s):**
- PHIL 331; or
- permission of the department.
PHYS 102B - PHYS 290

PHYS 102B  Units: 1.5  Hours: 3-3-0
Formerly: part of PHYS 102
General Physics II
Introductory algebra-based survey of physics including heat, sound, wave motion, light, electricity, magnetism, and modern physics. Life Science applications.
Note: Not open for credit to students registered in or with credit in any of PHYS 102, PHYS 111, PHYS 112, PHYS 125, PHYS 130.
Prerequisite(s): PHYS 102A
Recommendation(s): One of MATH 100, MATH 102, MATH 109 recommended prior to or in conjunction with PHYS 102B.

PHYS 110  Units: 1.5  Hours: 3-3-0
Formerly: Part of PHYS 112, PHYS 122
Introductory Physics I
Newton's laws; particle dynamics and curvilinear motion; force and momentum; kinetic and potential energy; circular and rotational motion; thermal physics; gravitational and electric forces. Engineering and Physical Science applications.
Notes:
• Students with credit for PHYS 112, PHYS 120, or PHYS 122 may not take PHYS 110 for credit.
• A basic course in physics for students planning a program of study in fields such as Physics, Astronomy, Chemistry, Earth and Ocean Sciences and Engineering.
• Students with a strong interest in Physics or Astronomy are encouraged to consider registering in PHYS 120.
Pre- or Corequisite(s): One of MATH 100, MATH 102, MATH 109.
Recommendation(s): A background equivalent to BC Physics 12 strongly recommended prior to PHYS 110. MATH 100 strongly recommended in conjunction with PHYS 110.

PHYS 130  Units: 1.5  Hours: 3-3-0
Introductory Geophysics
An introduction to seismology, gravity, geomagnetism, paleomagnetism and heat flow, and how they contribute to our understanding of whole Earth structure and plate tectonics.
Note: Credit will be granted for only one of PHYS 130, EOS 210.
Prerequisite(s): PHYS 120.
Pre- or Corequisite(s): MATH 101.

PHYS 210  Units: 1.5  Hours: 3-0-0
Also: EOS 210
Introductory Electricity and Magnetism
Electric and magnetic fields, Gauss' law, electric potential, capacitance, dielectrics, current and resistance, resistivity, magnetic inductance. Faraday's law of induction, Ampere's law, energy stored in electric and magnetic fields.
Note: Credit will be granted for only one of PHYS 216, ECE 216, ELEC 216.
Pre- or Corequisite(s): Either PHYS 110 and PHYS 111, or PHYS 120 and PHYS 130.

PHYS 229  Units: 1.5  Hours: 2-4-0
Introduction to Experimental Physics
Principals and techniques of experiment design and measurement, systematic and statistical uncertainties, data acquisition, analysis and the dissemination of knowledge. Laboratory experiments focus on the use of electronics, instrumentation, and optical systems fundamental to experimental physics.
Note: Credit will be granted for only one of PHYS 229, PHYS 214.
Prerequisite(s):
• Either PHYS 110 and PHYS 111, or PHYS 120 and PHYS 130.
• MATH 101.

PHYS 248  Units: 1.5  Hours: 3-3-0
Also: MATH 248
Computer Assisted Mathematics and Physics
Use of a high-level computer language for mathematical and scientific experimentation, simulation, and calculation. Programming of mathematics using available functions and routines and also writing short programs for symbolic and numerical computations, visualization, graphical output, and data management. The goal is to become competent with a high-level mathematics language and to practice programming in such a language. Emphasis on hands-on coding for experimentation in a variety of mathematical and physical contexts.
Note: Credit will be granted for only one of PHYS 248, MATH 248.
Prerequisite(s):
• MATH 110 or MATH 211; and
• MATH 200; and
• CSC 110 or CSC 111.

PHYS 280  Units: 1.5  Hours: 3-0-0
Special Topics in Physics
Occasional offerings dealing with a specific topic in Physics.
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s): 3 units of PHYS courses.

PHYS 290  Units: 1.0-3.0
Directed Studies
Prerequisite(s): Permission of the department.
PHYS 301 Units: 1.5 Hours: 3-0-0
Introductory Mathematical Physics
Note: Not open for credit to students registered in or with credit in PHYS 410.
Prerequisite(s): All of PHYS 215, PHYS 216, PHYS 248, MATH 200, MATH 204, MATH 211.

PHYS 303 Units: 1.5 Hours: 3-0-0
Origin of Space, Time and Matter in the Universe
For non-science students interested in expanding their understanding of the physical world. The aim is to combine topics in earth physics, particle physics, astronomy, and cosmology to study the nature and origin of space-time and matter, and the chemical composition of the earth, planets and stars. Highlights of larger issues, such as the nature of scientific knowledge, and the validity of science and the scientific method. A non-mathematical approach.
Note: Credit for this course will not be counted toward any Physics or Astronomy program requirement except as an elective.
Prerequisite(s):
• Minimum third-year standing; or
• Permission of the department.

PHYS 313 Units: 1.5 Hours: 3-0-0
Atomic and Molecular Physics
Notes:
• Credit will be granted for only one of PHYS 313, PHYS 413A, PHYS 413B.
• Normally offered in alternate years.
• Students are advised to consult the department to determine when the course is offered.
Prerequisite(s): MATH 204.
Pre- or Corequisite(s):
• PHYS 323 and
• one of PHYS 301, MATH 342, MATH 346.

PHYS 314 Units: 1.5 Hours: 3-0-0
Nuclear Physics and Radioactivity
Applications of quantum physics to atomic nuclei; nuclear properties, structure, models and modes of decay. Radioactivity and applications in industry, medicine, archaeology and cosmology. Fission and fusion.
Notes:
• Credit will be granted for only one of PHYS 314, PHYS 413B.
• Normally offered in alternate years.
• Students are advised to consult the department to determine when the course is offered.
Prerequisite(s): All of PHYS 215, PHYS 216, MATH 204.
Pre- or Corequisite(s): One of PHYS 301, MATH 342, MATH 346.
Recommendation(s): PHYS 323 strongly recommended prior to PHYS 314.

PHYS 317 Units: 1.5 Hours: 3-1-1
Thermodynamics
Note: Credit will be granted for only one of PHYS 317, PHYS 217.
Prerequisite(s): Either PHYS 110 and PHYS 111, or PHYS 120 and PHYS 130.
Pre- or Corequisite(s): MATH 204.

PHYS 321A Units: 1.5 Hours: 3-1-1
Classical Mechanics I
Oscillatory motion, motion under a central force, dynamics of a system of particles, gravitational potential theory.
Prerequisite(s):
• Either PHYS 110 and PHYS 111, or PHYS 120 and PHYS 130; and
• MATH 204.
Pre- or Corequisite(s): One of PHYS 301, MATH 342, MATH 346.

PHYS 321B Units: 1.5 Hours: 3-1-0
Classical Mechanics II
Rigid body dynamics, an introduction to analytical mechanics including Lagrange’s and Hamilton’s equations, theory of small oscillations.
Prerequisite(s): PHYS 321A.
Pre- or Corequisite(s): MATH 342 and MATH 346.

PHYS 323 Units: 1.5 Hours: 3-1-1
Quantum Mechanics I
Introduction to quantum mechanics, historical review, postulates, development of the theory and applications.
Note: Credit will be granted for only one of PHYS 323, PHYS 413A.
Prerequisite(s): PHYS 215 and MATH 204.
Pre- or Corequisite(s): One of PHYS 301, MATH 342, MATH 346.

PHYS 325 Units: 1.5 Hours: 3-3-0
Optics
Reflection and refraction at plane and spherical surfaces, thin lenses, lens aberrations, optical instruments, interference, diffraction, polarization.
Prerequisite(s):
• One of PHYS 216, ECE 216, ELEC 216; and
• MATH 204; and
• MATH 110 or MATH 211.
Recommendation(s): PHYS 346 recommended prior to or in conjunction with PHYS 325.

PHYS 326 Units: 1.5 Hours: 3-1-1
Electricity and Magnetism
Properties of electromagnetic fields using vector calculus, displacement current, Maxwell’s equations, plane electromagnetic waves with applications, transmission lines, and transients in LRC circuits.
Prerequisite(s): PHYS 216 and MATH 204.
Pre- or Corequisite(s): One of PHYS 301, MATH 342, MATH 346.

PHYS 328 Units: 1.5 Hours: 3-0-0
Solid State Physics I
Physics of solids including crystal structure and symmetry; thermal, electrical, elastic, and optical properties of solids.
Note: Credit will be granted for only one of PHYS 328, PHYS 428.
Pre- or Corequisite(s):
• PHYS 323 and PHYS 326, and
• One of PHYS 301, MATH 342, MATH 346.

PHYS 340 Units: 1.5 Hours: 3-0-2
Atmospheric Sciences
Introduction to the dynamic and thermodynamic processes governing the Earth’s weather and climate. Emphasis on energy and temperature; cloud and precipitation processes; winds and weather systems; ocean-atmosphere interaction; El Nino; and past, present and future climates.
Note: Credit will be granted for only one of PHYS 340, EOS 340.
Prerequisite(s):
• One of PHYS 102, PHYS 102A and PHYS 102B, PHYS 110 and PHYS 111, PHYS 120 and PHYS 130; or
• permission of the department.
Pre- or Corequisite(s):
• EOS 225, or MATH 204; and
• one of CHEM 245, PHYS 217, PHYS 317.

PHYS 410 Units: 1.5 Hours: 3-0-0
Topics in Mathematical Physics I
Mathematical methods applied to solving physical problems. Topics include: Finite dimensional and complex linear spaces; dimensional analysis; theory of distributions and applications to Fourier transforms and Green’s functions; variation and perturbation methods; nonlinear differential equations.
Pre- or Corequisite(s): All of PHYS 321A, PHYS 321B, MATH 346.
Recommendation(s): One of PHYS 313, PHYS 314, PHYS 323, and PHYS 326 recommended prior to PHYS 410.

PHYS 414 Units: 1.5 Hours: 3-0-0
Computational Modeling and Analysis
A combined lecture and laboratory course designed to introduce numerical methods and data analysis techniques of use in the physical sciences. These include basic statistical methods, methods for solving differential equations, Monte Carlo simulation, error analysis, parameter estimation, hypothesis testing and data visualization.
Note: Credit will be granted for only one of PHYS 342,
PHYS 242, CSC 242.
Pre- or Corequisite(s):
• Either PHYS 110 and PHYS 111, or PHYS 120 and PHYS 130; and
• CSC 110 or CSC 115; and
• MATH 200.

PHYS 417 Units: 1.5 Hours: 3-0-0
Thermal Physics
Thermal and Statistical physics.
Prerequisite(s):
• One of PHYS 301, MATH 342, MATH 346.
Pre- or Corequisite(s):
• MATH 204.

PHYS 418 Units: 1.5 Hours: 3-0-0
Mechanics of Deformable Solids
Elastostatics, elementary theories of plates, beams, shells; conservation laws, principles of virtual work, virtual energy, integral forms of equations of motion, Lagrangian and Hamiltonian formulations; uniqueness and stability of solutions; numerical methods; brief introduction to boundary element methods.
Prerequisite(s):
• One of PHYS 301, MATH 342, MATH 346.
Pre- or Corequisite(s):
• MATH 204.

PHYS 421 Units: 1.5 Hours: 3-0-0
Quantum Mechanics II
Introduction to quantum mechanics, historical review, postulates, development of the theory and applications.
Note: Credit will be granted for only one of PHYS 323, PHYS 413A.
Prerequisite(s): PHYS 215 and MATH 204.
Pre- or Corequisite(s): One of PHYS 301, MATH 342, MATH 346.

PHYS 422 Units: 1.5 Hours: 3-0-0
Electro and Magneto Statics
Electro and magnetostatics.
Prerequisite(s):
• One of PHYS 216, ECE 216, ELEC 216; and
• MATH 204; and
• MATH 110 or MATH 211.
Recommendation(s): PHYS 346 recommended prior to or in conjunction with PHYS 325.

PHYS 424 Units: 1.5 Hours: 3-1-0
Mathematical Methods for Modern Physics
Mathematical methods for modern physics. Topics include: Group theory, Lie algebras, Lie groups, applications to quantum mechanics, time-dependent wave equations, Green’s functions, angular momentum, number operators, complex variables, conformal mapping, the Schrödinger equation, perturbation theory, and the variational principle.
Pre- or Corequisite(s): PHYS 321A, PHYS 321B, MATH 346.
Recommendation(s): PHYS 323 and PHYS 326 recommended prior to PHYS 424.
PHYS 411 Units: 1.5 Hours: 3-0-0
Time Series Analysis
Continuous and discrete Fourier transforms, convolution and correlation, autocorrelation, spectral density estimation, deconvolution, linear filtering, frequency domain and two-dimensional filtering. Digital data processing and computer analysis are stressed.
Prerequisite(s):
• Two of PHYS 321A, PHYS 323, PHYS 326; and
• MATH 211 and MATH 346.

PHYS 415 Units: 1.5 Hours: 3-0-0
General Relativity and Cosmology
Introduction to Einstein's theory of gravitation and its experimental verification. Applications within the realms of astrophysics and cosmology.
Prerequisite(s):
All of PHYS 321A, PHYS 326, MATH 346.

PHYS 421 Units: 1.5 Hours: 3-0-0
Statistical Mechanics
Boltzmann, Bose-Einstein and Fermi-Dirac statistics.
Note: Intended for Honours students.
Prerequisite(s):
• PHYS 217 or PHYS 317; and
• PHYS 323 and MATH 301; and
• One of PHYS 301, MATH 342, MATH 346.
Recommendation(s): PHYS 321B strongly recommended prior to PHYS 421.

PHYS 422 Units: 1.5 Hours: 3-0-0
Electromagnetic Theory
Potential theory, Maxwell's equations, electromagnetic waves.
Note: Intended for Honours students.
Prerequisite(s):
All of PHYS 326, MATH 301, MATH 342, MATH 346.

PHYS 423 Units: 1.5 Hours: 3-0-0
Quantum Mechanics II
Further development of the theory and applications, angular momentum, linear vector spaces, perturbation theory, scattering.
Note: Intended for Honours students.
Prerequisite(s):
All of PHYS 321A, PHYS 323, MATH 301, MATH 342, MATH 346.

PHYS 424 Units: 1.5 Hours: 3-0-0
Particle Physics
Topics in particle physics.
Notes:
• Normally open to Honours students only, others by permission of the department.
• Normally offered in alternate years.
• Students are advised to consult the department to determine when the course is offered.
Prerequisite(s):
• PHYS 423; or
• permission of the department.

PHYS 426 Units: 1.5 Hours: 3-1-0
Fluid Mechanics
Flow kinematics, vorticity, the Navier-Stokes equations, Bernoulli's theorem, irrotational flow, viscous flow, dynamic similarity. Application to aerodynamics, water waves, low Reynolds number (very viscous) flow and other selected topics.
Prerequisite(s):
• PHYS 217 or PHYS 317; and
• PHYS 321A.
Pre- or Corequisite(s): MATH 346.

PHYS 427 Units: 1.5 Hours: 3-0-0
Also: EOS 427
Geophysics
Principles of seismology, gravity, geomagnetism, heat flow, and how they contribute to our understanding of whole Earth structure and plate tectonics.
Notes:
• Credit will be granted for only one of PHYS 427, EOS 427.
• Normally offered in alternate years.
• Students are advised to consult with the department to determine when the course is offered.
Prerequisite(s):
PHYS 321A and PHYS 326.
Pre- or Corequisite(s): MATH 346.

PHYS 429A Units: 1.5 Hours: 0-3-0
Honours Laboratory
Introduction to research, with several research-oriented experiments and with instruction on experimental techniques and theory of measurement.
Note: Normally open only to fourth-year Honours students, others by permission of the department.
Prerequisite(s):
• Minimum fourth-year standing; or
• permission of the department.

PHYS 432 Units: 1.5 Hours: 3-0-0
Medical Physics
Introduction to medical physics. Production and measurement of x-rays and charged particles for nuclear medicine, interaction of radiation with biological materials, radiation dosimetry, radiation safety, physics of medical imaging, magnetic resonance imaging.
Prerequisite(s): Either one of PHYS 313, PHYS 314, or PHYS 332; or BME 335 and MATH 204.

PHYS 437 Units: 1.5 Hours: 3-0-0
Solid State Physics II
Nanoscale physics, including semiconductor nanostructures and devices, nanomagnetism and spintronics, nanophotonics, molecular electronics, and superconductivity.
Prerequisite(s): PHYS 328.
### Political Science

**Department of Political Science**

**Faculty of Social Sciences**

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<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
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</table>
| POLI 101    | 1.5   | 3-0-1 | Canadian Politics
An introduction to the social bases of Canadian politics focusing on the distribution and exercise of political power. Topics include: regionalism, Québec nationalism, and economic inequality; political parties, voting, interest groups and the mass media; the policy process. **Note:** Credit will be granted for only one of POLI 101, POLI 100, POLI 470. |
| POLI 103    | 1.5   | 3-0-1 | The Worlds of Politics
Introduces students to the study of politics in three fields (comparative politics, international politics, and political theory). Each term will focus on a particular theme of broad interest to the three fields such as democracy, power and violence. |
| POLI 201    | 1.5   | 3-0-1 | Formerly POLI 102
Canadian Institutions of Government
Introduction to the Canadian system of government; the constitutional framework; parliamentary and federal political structures; institutional change and major constitutional developments and debates. **Note:** Credit will be granted for only one of POLI 201, POLI 100, POLI 102, POLI 470. |
| POLI 202    | 1.5   | 3-0-1 | An Introduction to Political Theory
Focuses on one or more topics in contemporary political theory such as the nature of democracy, the role of ideology, or the functions of the state. Different analyses will be compared, and students will be introduced to various models and techniques of theoretical inquiry. |
| POLI 210    | 1.5   | 3-0-1 | Comparative Politics
An introduction to the comparative study of politics and the basic structures and processes of modern political systems, with illustrations from around the world. |
| POLI 211    | 1.5   | 3-0-1 | European Integration and the European Union
An introduction to the study of the European integration process and the basic structures and processes of the European Union, including an examination of selected policies. |
| POLI 217    | 1.5   | 3-0-1 | Also: GDS 201
Global Development
An introduction to global development and contemporary issues facing the Global South (Africa, Latin America and Asia). Focuses on theoretical, historical and policy debates shaping global development. Topics may include: colonization and decolonization; post-colonial nation-state building; democratization; global poverty and inequality; food security; culture and development; international development assistance and the role of international organizations, NGOs and social movements in shaping development. **Note:** Credit will be granted for only one of POLI 217, GDS 201. |
| POLI 233    | 1.5   | 3-0-1 | Contemporary Political Problems
An examination of one or more contemporary political problems, such as economic inequality, environmental degradation, or ethno-religious conflict, which are common to many countries, including Canada. These problems will be considered in their local, regional, national, and global manifestations, from diverse perspectives in political science. **Note:** May be taken more than once for credit in different topics with permission of the department. |
| POLI 240    | 1.5   | 3-0-1 | International Politics
An introduction to the study and practice of international politics. Topics covered include the historical evolution of the international system, the major theoretical approaches to the study of international politics, state and non-state actors, and key contemporary issues in the areas of security and political economy. |
| POLI 263    | 1.5   | 3-0-1 | The Politics of Indigenous Peoples
An introduction to the politics of Indigenous Peoples in Canada, with an emphasis on Indigenous understandings and practices, as well as contemporary responses to the challenges of colonialism and imperialism. |
| POLI 300A   | 1.5   | 3-0-0 | Ancient and Medieval Political Thought
A survey of the main themes and assumptions of political theory in ancient Greece and medieval Europe, including study of Plato’s Republic and Aristotle’s Politics. **Note:** Credit will be granted for only one of POLI 300A, POLI 301, POLI 300 (if taken prior to Sep 1982 - Apr 1983). |
| POLI 300B   | 1.5   | 3-0-0 | Early Modern Political Thought
An examination of basic texts and persistent themes in Western political thought from the Renaissance to the Enlightenment, including study of texts by such key thinkers as Machiavelli, Hobbes, Locke, Hume and Kant. **Note:** Credit will be granted for only one of POLI 300B, POLI 300. |
| POLI 300C   | 1.5   | 3-0-0 | Post-Enlightenment Political Thought
An examination of basic texts and persistent themes in Western political thought from the Enlightenment to the late 19th century, including study of texts by such key thinkers as Rousseau, Hegel, Marx and J.S. Mill. **Note:** Credit will be granted for only one of POLI 300C, POLI 300. |
| POLI 305    | 1.5   | 3-0-0 | Democracy and Diversity
Examines the challenges that cultural and national diversity pose to liberal democracy. The analytical focus will be on both the normative desirability of recognizing cultural or national differences and on the political and legal ramifications of granting group and minority rights. **Prerequisite(s):** • POLI 103 or POLI 202; or • permission of the department. |
| POLI 306    | 1.5   | 3-0-0 | Introduction to Marxism
An overview of the thought of Karl Marx and Frederick Engels, focusing on its philosophical origins, key concepts and ideas of their historical materialism, critique of political economy, political theory and philosophy. The development of Marxism after Marx and Engels, particularly in the tradition of Western Marxism, will be traced in the case of each concept and idea. **Note:** Credit will be granted for only one of POLI 306, POLI 406. |
| POLI 309    | 1.5   | 3-0-0 | Democracy and Disobedience
Political thought and case studies about organized disobedience to law and policy as a form of political protest; connection between disobedience and legal and social change in contemporary states. |
| POLI 311    | 1.5   | 3-0-0 | Governments and Politics in Europe
Historical backgrounds to, institutional framework for, and players involved in, political conflict in European countries. Consideration will be given to contemporary policy issues and the process of European integration. **Prerequisite(s):** • POLI 211; or • permission of the department. |
| POLI 313A   | 1.5   | 3-0-0 | U.S. Politics: Parties, Elections, and Social Movements
An analysis of the political system of the United States, with an emphasis on elections, parties, political participation, and social movements. **Note:** Credit will be granted for only one of POLI 313A, POLI 313. |
| POLI 313B   | 1.5   | 3-0-0 | U.S. Politics: Public Policy, the Constitution, and Civil Liberties
An analysis of constitutional politics and public policy in the United States, with a particular focus on issues related to civil rights and civil liberties. **Note:** Credit will be granted for only one of POLI 313B, POLI 313. |
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<th>Course Code</th>
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<tr>
<td>POLI 313C</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Indigenous Politics and the U.S. Political System: An analysis of the relations between American Indian Nations and other native peoples with the United States of America.</td>
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<tr>
<td>POLI 318</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Government and Politics in East Asia: Government and politics in China, Japan, North and South Korea, and Taiwan, with special attention to state formation, political reform, institutions and ideology. <strong>Note:</strong> Credit will be granted for only one of POLI 318, HIST 438 (if taken in the same topic), HSTR 364 (if taken in the same topic).</td>
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<tr>
<td>POLI 319</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Issues in Comparative Politics: An analysis of contemporary issues in comparative politics. <strong>Note:</strong> May be taken more than once for credit in different topics with permission of the department.</td>
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<tr>
<td>POLI 320</td>
<td>1.5</td>
<td>3-0-0</td>
<td>The Canadian Constitution: An analysis of the Canadian Constitutional framework, including the Constitution acts of 1867 and 1982, the shaping of the federal system and the impact on Canadian society of the Charter of Rights and Freedoms. <strong>Note:</strong> Credit will be granted for only one of POLI 320, POLI 320A, POLI 320B.</td>
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<tr>
<td>POLI 321</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Introduction to Research Methods in Politics: Advanced introduction to the key empirical research methods used in the study of politics, including interpretive, historical, participatory, quantitative, case study and comparative. <strong>Note:</strong> Not open for credit to students with credit in POLI 339. <strong>Prerequisite(s):</strong> • POLI 101 or POLI 201; or • permission of the department.</td>
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<tr>
<td>POLI 322</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Issues in Politics: A lecture class in selected contemporary political issues. <strong>Note:</strong> Contact hours may vary depending on the topic. <strong>Note:</strong> May be taken more than once for credit in different topics with permission of the department.</td>
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<tr>
<td>POLI 327</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Political Economy in the Global South: Major themes and issues in political economy in the Global South (Africa, Latin America and Asia). Issues explored may include: globalization and work, debt and development, aid and trade, south-south migration, China’s role in Africa, the growing political and economic influence of the emerging economies (India, China, Brazil and South Africa), and the impact of international actors such as the World Bank and International Monetary Fund (IMF). Country-specific case studies will be used for illustration. <strong>Note:</strong> Credit will be granted for only one of POLI 327, POLI 317 (if taken in Sep 2013 - Apr 2014).</td>
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<tr>
<td>POLI 328</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Gender and International Relations: Examines gender inequalities from the standpoint of feminist international relations theories and through the study of key international relations concepts such as violence, globalization, democratization, transnational politics and ethnic nationalism. <strong>Note:</strong> Credit will be granted for only one of POLI 328, POLI 349 (if taken in the same topic).</td>
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<tr>
<td>POLI 329</td>
<td>1.5</td>
<td>3-0-0</td>
<td>The Political Foundations of International Law: An advanced introduction to the political nature of international law. Reviews the conceptual and analytical foundations of the field, as well as conventional and critical theoretical approaches to the study of international law. Also examines the main substantive areas of international law and practice.</td>
</tr>
<tr>
<td>POLI 330</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Urban Politics: An analysis of urban social movements, the politics of planning and development, and the political economy of cities in the era of globalization. <strong>Note:</strong> Credit will be granted for only one of POLI 332, POLI 332B, POLI 450.</td>
</tr>
<tr>
<td>POLI 331</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Gender and Politics: An introduction to key debates about the relation between gender and politics in the Western political tradition. Explores how gender has shaped and been shaped by key political ideas (including the public-private distinction, the idea of contract, political representation, rights, justice, identity and equality), as well as connections between conceptual debates and practical policy-oriented problems in law and politics.</td>
</tr>
<tr>
<td>POLI 332</td>
<td>1.5</td>
<td>3-0-0</td>
<td>The Modern State: An exploration of the modern state as a form of governance and a mode of political organization. Contemporary changes in the organization of the state will be considered in relation to earlier developments. The focus will be on North America and Western Europe, and particular attention will be given to the problematic relation between disciplinary governments, social movements and local communities. <strong>Note:</strong> Credit will be granted for only one of POLI 336, POLI 404.</td>
</tr>
<tr>
<td>POLI 333</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Ethics in International Relations: An exploration of the application of moral judgment to international politics. Introduces different moral theories and applies them to topical issues to help make reasoned judgments about important international issues. Topics include: just war, foreign aid, immigration control, spreading human rights, withdrawing humanitarian aid, and the use of torture.</td>
</tr>
<tr>
<td>POLI 334</td>
<td>1.5</td>
<td>3-0-0</td>
<td>The United Nations and Global Issues: The historical development of the modern states system with reference to its changing social, economic, and political environments, and to related theoretical developments.</td>
</tr>
<tr>
<td>POLI 335</td>
<td>1.5</td>
<td>3-0-0</td>
<td>International Political Economy: The politics of international economic relations in trade, investment, finance and macroeconomic policies from a variety of theoretical perspectives. <strong>Prerequisite(s):</strong> • Declared Honours in Political Science; or • permission of the department.</td>
</tr>
<tr>
<td>POLI 336</td>
<td>1.5</td>
<td>3-0-0</td>
<td>International Organization: The nature and function of international and regional governmental and non-governmental organizations.</td>
</tr>
<tr>
<td>POLI 337</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Discourses of World Politics: Contemporary debates about the nature and location of political community in relation to both the historical practices of state sovereignty and claims about the increasingly global context of political life.</td>
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<td>Course Code</td>
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<tr>
<td>POLI 348</td>
<td>1.5</td>
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<td>International Security</td>
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<tr>
<td>POLI 349</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Issues in International Politics</td>
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<tr>
<td>POLI 350</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Introduction to Public Administration</td>
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<tr>
<td>POLI 351</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Public Policy Analysis</td>
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<td>POLI 352</td>
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<td>POLI 352 POLI 374</td>
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<td>POLI 353</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Canadian Environmental Politics</td>
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<tr>
<td>POLI 354</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Canadian Federalism and Public Policy</td>
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<tr>
<td>POLI 355</td>
<td>1.5</td>
<td>3-0-0</td>
<td>British Columbia Political Economy</td>
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<td>POLI 356</td>
<td>1.5</td>
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<td>Canadian Political Economy</td>
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<td>POLI 357</td>
<td>1.5</td>
<td>3-0-0</td>
<td>The Politics of Race in Canada</td>
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<td>POLI 358</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Issues in Canadian Politics</td>
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<tr>
<td>POLI 359</td>
<td>1.5</td>
<td>3-0-0</td>
<td>The Politics of Surveillance</td>
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<tr>
<td>POLI 360</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Chinese Politics</td>
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<tr>
<td>POLI 361</td>
<td>1.5</td>
<td>3-0-0</td>
<td>American Politics</td>
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<tr>
<td>POLI 362</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Latin American Politics</td>
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<tr>
<td>POLI 363</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Comparative study of Latin America through an examination of the region’s history, politics and society. Themes may include development, revolution, militarism, social movements and democratization.</td>
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<tr>
<td>POLI 364</td>
<td>1.5</td>
<td>3-0-0</td>
<td>African Politics</td>
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<tr>
<td>POLI 365</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Survey of contemporary African politics. Broad overview of political developments in Africa, analyzing political conflict and change in terms of the economic, social and historical contexts of select African countries and regions.</td>
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<tr>
<td>POLI 366</td>
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<td>POLI 366 POLI 382</td>
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<td>POLI 367</td>
<td>1.5</td>
<td>3-0-0</td>
<td>The Politics of Race in Canada</td>
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<tr>
<td>POLI 368</td>
<td>1.5</td>
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<td>Issues in Canadian Politics</td>
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<tr>
<td>POLI 369</td>
<td>1.5</td>
<td>3-0-0</td>
<td>The Politics of Surveillance</td>
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<td>POLI 370</td>
<td>1.5</td>
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<td>Chinese Politics</td>
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<td>POLI 371</td>
<td>1.5</td>
<td>3-0-0</td>
<td>American Politics</td>
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<tr>
<td>POLI 372</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Latin American Politics</td>
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<tr>
<td>POLI 373</td>
<td>1.5</td>
<td>3-0-0</td>
<td>African Politics</td>
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<tr>
<td>POLI 374</td>
<td>1.5</td>
<td>3-0-0</td>
<td>The Political Economy of Modern Chinese Cities</td>
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<td>POLI 375</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Politics of India</td>
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<tr>
<td>POLI 376</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Comparative Federalism</td>
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<tr>
<td>POLI 377</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Issues in Contemporary European Politics</td>
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<tr>
<td>POLI 378</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Communication and Politics</td>
</tr>
<tr>
<td>POLI 379</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Politics of Mass Media in Latin America</td>
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<tr>
<td>POLI 380</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Politics and Religion</td>
</tr>
</tbody>
</table>
POLI 383 Units: 1.5 Hours: 3-0-0
Global Indigenous Nationalisms
Comparative analysis of Indigenous politics with primary focus on indigenous-state relations in Canada, United States, Australia, and New Zealand.
Note: Credit will be granted for only one of POLI 383, POLI 433 (if taken in the same topic).

POLI 384 Units: 1.5 Hours: 3-0-0
Comparative Political Thought
Critically engages different cultural, religious, and geographic traditions of political thought and questions about their contested boundaries. Main topics: overview of key traditions; exploration of emerging fields of comparative political inquiry; debates about how to compare and engage different traditions of political thinking; the significance of which thinkers, ideas, texts, and histories are conventionally discussed or not discussed in political theory; implications of engaging different political thought traditions for political theory as a whole.
Note: Credit will be granted for only one of POLI 384, POLI 319 (if taken in the same topic).
Prerequisite(s):
- POLI 103 or POLI 202; or
- permission of the department.

POLI 385 Units: 1.5 Hours: 3-0-0
Gender, Race and Power
Examination of conceptual and substantive debates in feminist political thought, including debates within and between radical, liberal, socialist feminists, as well as black, post-colonial and Indigenous feminist theorists. Issues discussed include violence against women, marriage and the family, women’s work, sexuality, representations of women in the media, intersectionality and the nature of oppression.

POLI 390 Units: 1.5 Hours: 3-0-0
Directed Experiential Learning
Individual examination of analytical issues in political science in relation to work or volunteer activities directly related to studying political science. Student must work with instructor to identify issues to be explored and methods of assessment before experiential learning opportunity begins. Learning opportunity must be independent of any previous or concurrent Co-op work-term placement. Must include at least 200 hours of work or volunteer activities. Assessment normally will involve a reflective journal and final paper.
Prerequisite(s):
- Minimum third-year standing;
- declared Honours or Major in Political Science; and
- permission of the department.

POLI 401 Units: 1.5 Hours: 3-0-0
Advanced Topics in Political Theory
An advanced seminar on contemporary issues and problems in political theory.
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s):
- One of POLI 300A, POLI 300B, POLI 300C; or
- permission of the department.

POLI 402 Units: 1.5 Hours: 3-0-0
Contemporary Themes in Political Thought
A seminar course covering major themes in contemporary political thought focusing especially on the interplay between theories of modernity and concepts of political identity and community.
Note: Credit will be granted for only one of POLI 402, POLI 302.
Prerequisite(s):
- One of POLI 300A, POLI 300B, POLI 300C; or
- permission of the department.

POLI 412 Units: 1.5 Hours: 3-0-0
Migration, Nationalism and Identity in Asia
Migration has greatly complicated and unsettled the post-WWII associations between people, places and identity. The seemingly simple question, “Who is Chinese?” or, “Who is Japanese?” is fraught with nuance and complexity. A seminar course aiming to help students critically analyze the complex political, economic, and cultural dynamics of migration, nationalism, and identity in Asia.
Note: Credit will be granted for only one of POLI 412, POLI 433 (if taken in the same topic).

POLI 414 Units: 1.5 Hours: 3-0-0
Politics in the European Union
A seminar course covering the politics, institutions, policy-making process, and the role of various nation-states in the European Union, in historical and contemporary contexts. Attention will also be given to theories of European integration.
Prerequisite(s):
- POLI 211 or POLI 311; or
- permission of the department.

POLI 430 Units: 1.5 Hours: 3-0-0
Media, Technology and Politics
A seminar course covering a critical examination of the impact of new electronic technologies of communication upon contemporary politics. Focuses on clashing perspectives on the digital future. Explores the meaning of power, information and identity in the 21st century. Particular attention is paid to both theoretical and multimedia approaches to understanding politics in the age of interactivity.

POLI 433 Units: 1.5 or 3.0 Hours: 3-0-0
Issues in Politics
A seminar course covering selected contemporary political issues.
Note: May be taken more than once for credit in different topics with permission of the department.

POLI 434 Units: 1.5 Hours: 3-0-0
The Politics of Class
A seminar course covering an exploration of how social and economic class affects politics and becomes a political issue in Canada and other western countries. Drawing from political history, sociology and political economy, topics will include debates over the conceptualization of class and classes, the historical trajectory of working class political parties, the formation and decline of working class identity, and the classed aspects of contemporary politics and social movements (e.g., the women’s movement, anti-racism, gay and lesbian politics, etc.).

POLI 436 Units: 1.5 Hours: 3-0-0
Politics of Human Rights in New Democracies
A seminar course covering comparative study of the politics of human rights in new democracies. Issues may include the meaning and history of human rights, human rights organizations, transitional justice, and institutional reform.

POLI 442 Units: 1.5 Hours: 3-0-0
International Law
A seminar course covering exploration of a number of selected areas and issues of international law and practice. Content varies from year to year, and may include international laws governing human rights, the use of force, the environment, indigenous peoples, criminality, economic relations and transactions.
Note: Credit will be granted for only one of POLI 442, POLI 342.
Prerequisite(s):
- POLI 329; or
- permission of the department.

POLI 444 Units: 1.5 Hours: 3-0-0
Governance in the Global Political Economy
International and transnational arrangements governing economic practices and interactions among countries in trade, investment, finance, monetary and fiscal policy, development, and taxation. Formal intergovernmental institutions and mechanisms of private transnational governance. Causes and consequences of global political-economic governance for national governments and groups within societies.
Prerequisite(s):
- POLI 344; or
- permission of the department.

POLI 456 Units: 1.5 Hours: 3-0-0
The Politics of the Internet
A seminar course covering a comparative analysis of some of the most prominent political issues shaping the character and governance of the Internet, including privacy, censorship and intellectual property.

POLI 458 Units: 1.5 Hours: 3-0-0
Topics in Environmental Politics
A seminar course covering examination of political factors shaping responses to selected global environmental issues.

POLI 462 Units: 1.5 Hours: 3-0-0
Intergovernmental Relations in Canada
A seminar course examining the nature of relations among federal, provincial, and municipal governments, and the impact of those relations on public policy. Includes discussion of topics such as the modalities of fiscal federalism and the concepts of executive federalism and intergovernmental governance.
Note: Credit will be granted for only one of POLI 462, POLI 433 (if taken in the same topic), ADMN 462, ADMN 490 (if taken in the same topic), ADMN 547.
Prerequisite(s): POLI 102 or POLI 201.
PORT

Portuguese
Department of Hispanic and Italian Studies
Faculty of Humanities

Native speakers of Portuguese may not obtain credit for 100- or 200-level courses. A native speaker is defined as a person who has spoken Portuguese since childhood and/or has received sufficient instruction in the language to be literate in it.

PORT 100A
Beginners' Portuguese I
Focuses on the acquisition of basic skills of pronunciation, reading, writing and conversation. Includes instruction in essential points of grammar, basic syntax and vocabulary for daily interaction.

PORT 100B
Beginners' Portuguese II
A continuation of 100A, with emphasis on the acquisition of basic skills. Vocabulary and grammatical concepts will be expanded.

Prerequisite(s):
- PORT 100A, or
- permission of the department.

PSYC

Psychology
Department of Psychology
Faculty of Social Sciences

PSYC 100A
Introductory Psychology I
An introduction to concepts, theories and research findings of modern psychology. Topics may include psychological research methods, biological bases of behaviour, perception, development, consciousness, learning and cognition.

Note: Credit will be granted for only one of PSYC 100A, PSYC 200.

PSYC 100B
Introductory Psychology II
An introduction to concepts, theories and research findings of modern psychology. Topics may include cognition, development, personality, health psychology, psychological disorders, psychological therapies, and social behaviour.

Note: Credit will be granted for only one of PSYC 100B, PSYC 100C.

PSYC 191
Psychology in Contemporary Society
Current knowledge from psychology applied to contemporary issues of social, personal, or societal relevance.

Note: May be taken more than once for credit in different topics to a maximum of 3 units.
### PSYC 251 - PSYC 339

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>PSYC 251</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Introduction to Mind and Brain&lt;br&gt;Examines how neural activity in the brain gives rise to mental experiences that constitute the human mind. Basic principles of cognition and methods used to reveal those principles will be presented. The influence of brain injury on mental functioning will also be considered. <strong>Prerequisite(s):</strong>&lt;br&gt;- PSYC 100A, and&lt;br&gt;- one of PSYC 100B, BIOL 184, BIOL 186.</td>
</tr>
<tr>
<td><strong>PSYC 260</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Introduction to Mental Health and Well-Being&lt;br&gt;Examines theory and research related to mental health and well-being in adulthood. Topics address various aspects of psychological distress (such as mood and anxiety disorders, personality disorders, substance use, and schizophrenia) and psychological well-being. Biological, learning, developmental, humanistic, and cross-cultural perspectives are used to understand the definitions and etiology of mental disorders and psychological well-being. <strong>Note:</strong> Credit will be granted for only one of PSYC 260, PSYC 360, PSYC 430. <strong>Prerequisite(s):</strong> PSYC 100A and PSYC 100B.</td>
</tr>
<tr>
<td><strong>PSYC 300A</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Statistical Methods in Psychology&lt;br&gt;Brief review of research methodology; univariate description, bivariate description, and an introduction to probability and inferential statistics as applied in Psychology. Introduction to microcomputer software and computer based analyses of the statistical procedures covered in the course. <strong>Notes:</strong>&lt;br&gt;- Credit will be granted for only one of PSYC 300A, PSYC 300B.&lt;br&gt;- See “Credit Limit - Beginning Level Statistics Courses”.&lt;br&gt;<strong>Prerequisite(s):</strong>&lt;br&gt;- PSYC 201; and&lt;br&gt;- Academic Writing Requirement satisfied.</td>
</tr>
<tr>
<td><strong>PSYC 300B</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Statistical Methods in Psychology II&lt;br&gt;Contains a brief review of the topics covered in 300A and deals with statistical analysis procedures for two-group and multi-group experimental designs. The focus is on t-tests and analysis of variance. The differences between repeated measures and independent groups designs and analyses are emphasized. Students are expected to analyze an experimental data set using the appropriate statistical procedures, and to prepare a research report. <strong>Note:</strong> Credit will be granted for only one of PSYC 300B, PSYC 300. <strong>Pre- or Corequisite(s):</strong> PSYC 300A.</td>
</tr>
<tr>
<td><strong>PSYC 317</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Sensation and Perception&lt;br&gt;Discusses the construction of our perceptual world from sensory input, with an emphasis on visual experience. Functional models of the sensory system and measurement of sensory experiences such as stimulus detection and discrimination are examined. Topics include the perception of motion, form, colour, and individual differences in perceptual experience. <strong>Note:</strong> Credit will be granted for only one of PSYC 317A, PSYC 317B. <strong>Prerequisite(s):</strong> PSYC 251.</td>
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<tr>
<td><strong>PSYC 320</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Evolutionary Psychology&lt;br&gt;Provides an overview and history of the field of evolutionary psychology and includes evolutionary perspectives on psychological topics such as learning, cognition, consciousness, social behaviour, families and culture. <strong>Prerequisite(s):</strong> PSYC 231 or PSYC 251.</td>
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<tr>
<td><strong>PSYC 325</strong></td>
<td>1.5</td>
<td>3-1.5-0</td>
<td>Environmental Psychology&lt;br&gt;Human interaction with the physical environment from a psychological perspective. Topics include environmental perception, cognition, and assessment; personality and environment; the dynamics of social space; the effects of temperature, sound, light and spatial arrangements in neighbourhoods, homes, schools and workplaces; mutual influences of individuals and the natural environment, the design of buildings, and resource management. <strong>Note:</strong> Credit will be granted for only one of PSYC 325, PSYC 350. <strong>Prerequisite(s):</strong> PSYC 100A and PSYC 100B.</td>
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<tr>
<td><strong>PSYC 330</strong></td>
<td>1.5</td>
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<td>Personality&lt;br&gt;An introduction to personality theory and its applications. A survey of several major strategies followed in conceptualizing personality, e.g., psychoanalytic, dispositional plus emphasis on measurement of personality, current research, and approaches to personality change. <strong>Prerequisite(s):</strong> PSYC 201 and PSYC 260.</td>
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<tr>
<td><strong>PSYC 332</strong></td>
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<td>Health Psychology&lt;br&gt;A study of health issues from the standpoint of biological, psychological, and social factors acting together. Topics include health promotion, approaches to health-behaviour change, stress and coping, patient-practitioner interaction, pain, psychological issues in chronic and terminal illness, death and bereavement, the role of psychological factors in disease and treatment. <strong>Prerequisite(s):</strong> One of PSYC 231, PSYC 251, PSYC 260.</td>
</tr>
<tr>
<td><strong>PSYC 333</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Consumer Psychology&lt;br&gt;Psychological processes in consumers: marketing strategies and behaviour, cognition, comprehension, learning, perception, motivation, attitudes, values, and decision making; environmental, cultural, and subcultural influences; ethical issues. <strong>Note:</strong> Credit will be granted for only one of PSYC 333, PSYC 334 (if taken in Sep 1970 - Apr 1972), PSYC 334B. <strong>Prerequisite(s):</strong> PSYC 231 or PSYC 251.</td>
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<tr>
<td><strong>PSYC 334</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Organizational Psychology&lt;br&gt;Individuals at work: personnel selection, training, motivation, attitudes, and appraisal; leadership, communication, management, productivity, work conditions, safety, and organizational development. <strong>Note:</strong> Credit will be granted for only one of PSYC 334, PSYC 334A, COM 120, COM 220. <strong>Prerequisite(s):</strong> PSYC 231.</td>
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<tr>
<td><strong>PSYC 335</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Infant and Child Development&lt;br&gt;Overview of developmental changes from conception through about 12 years of age; prenatal development, neurological development, physical growth, perceptual and motor development, cognitive, social, and emotional processes, language acquisition, personality development, parenting, and the socio-cultural context of development. <strong>Note:</strong> Credit will be granted for only one of PSYC 335, PSYC 333A. <strong>Prerequisite(s):</strong> PSYC 201 and PSYC 243.</td>
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<tr>
<td><strong>PSYC 336</strong></td>
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<td>Adolescent Development&lt;br&gt;Overview of important developments during adolescence, including neurological development and biological changes, physical growth, cognitive social, and emotional processes, psychopathology and the social-cultural context of adolescent development. <strong>Note:</strong> Credit will be granted for only one of PSYC 336, PSYC 333A. <strong>Prerequisite(s):</strong> PSYC 201 and PSYC 243.</td>
</tr>
<tr>
<td><strong>PSYC 338</strong></td>
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<td>Behavioural Interventions with Children and Adults&lt;br&gt;Introduces the science of behavioural principles and applied behaviour analysis (ABA). Reviews basic principles of classical and operant conditioning, including stimulus control, motivation, reinforcement, punishment, extinction, and schedules of reinforcement, using examples of everyday behaviours. Consideration is given to behavioural procedures for assessing and changing problem behaviours, with examples from both children and adults. <strong>Prerequisite(s):</strong> PSYC 201 and PSYC 260.</td>
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<tr>
<td><strong>PSYC 339</strong></td>
<td>1.5</td>
<td>3-0-0</td>
<td>Adult Development and Aging&lt;br&gt;Overview of research examining psychological processes during adulthood and aging. Topics will include biological processes, perceptual and cognitive processes, personality and social processes, sources of stress, psychopathology and death. <strong>Note:</strong> Credit will be granted for only one of PSYC 339, PSYC 333B. <strong>Prerequisite(s):</strong> PSYC 201 and PSYC 243.</td>
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<td>Course Code</td>
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| PSYC 341    | 1.5   | 3-0-0 | PSYC 441, PSYC 441C. | Women and Psychology
Examines social-historical changes in psychological theories and research concerning girls and women. The historical contributions of Freud, Thompson, Erickson, Chodorow, Gilligan, Baker-Miller and others are studied in the context of cultural norms for women that existed when these authors were writing. Considers the implications of women's current roles and representations in the media for research for the treatment of prevalent women's mental health concerns such as depression, anxiety, victimization, eating disorders and aggression. Note: Credit will be granted for only one of PSYC 341, PSYC 441, PSYC 441C. Prerequisite(s): PSYC 100A and PSYC 100B. |
| PSYC 345A   | 1.5   | 3-0-0 | PSYC 313, PSYC 313A, PSYC 313B. | Drugs and Behaviour
An introductory course designed to review the scientific literature on drugs, behaviour, and the central nervous system. Topics include introductions to pharmacology, neuropharmacology, the experimental analysis of behaviour, and the behavioural determinants of drug action. Note: Credit will be granted for only one of PSYC 345A, PSYC 345. Prerequisite(s): PSYC 251. |
| PSYC 351A   | 1.5   | 3-0-0 | PSYC 313 | Cognitive Psychology
Emphasizes a detailed understanding of mental processes using studies of human behavior such as verbal reports and speeded responses. Particular topics will vary depending on the course instructor but will include domains such as attention, memory, object identification, language processing, embodied cognition, problem solving, reasoning, and decision making. Note: Credit will be granted for only one of PSYC 351A, PSYC 313, PSYC 313A, PSYC 313B. Prerequisite(s): PSYC 201 and PSYC 251. |
| PSYC 351B   | 1.5   | 3-0-0 | PSYC 315 | Human Neuropsychology
Emphasizes insights into the relationship between mind and brain by studying the behavior of individuals who have suffered various forms of brain damage. Approaches to examining the brain-behavior relationship (e.g. neuroimaging) will be discussed. Covers the major domains of cognitive functioning (e.g. memory, language, executive skills) as well as neurological syndromes and disturbances resulting from brain damage in selected areas. Note: Credit will be granted for only one of PSYC 351B, PSYC 315. Prerequisite(s): PSYC 201 and PSYC 251. |
| PSYC 351C   | 1.5   | 3-0-0 | Fundamentals of Clinical Psychology
Concepts, methods, and professional issues; the historical development of the profession, the scientist/practitioner model of training and practice, current research and clinical methods, professional/ethical issues, may include other current topics. Note: Credit will be granted for only one of PSYC 351D, PSYC 333. Prerequisite(s): PSYC 201 and PSYC 251. |
| PSYC 351D   | 1.5   | 3-0-0 | PSYC 323 | Biopsychology
Emphasizes the study of the biological basis of behavior at the molecular, cellular, and neural systems level. Covers the fundamentals of neurophysiology and neuanoatomy from a functional perspective, with an emphasis on the anatomy of the human nervous system. Examines the physiological basis of behaviours through review of contemporary research in areas such as sleep, reproduction, aggression, ingestion, learning and memory, motivation, and mental disorders. Note: Credit will be granted for only one of PSYC 351D, PSYC 323. Prerequisite(s): PSYC 201 and PSYC 251. |
| PSYC 356    | 1.5   | 3-0-0 | PSYC 365 | Psychological Disorders of Childhood and Adolescence
Examines research and theory in clinical child psychology and developmental psychopathology. Discusses a variety of mental health challenges with respect to their description, etiology, treatment, and prevention. Multiple theoretical perspectives are covered to understand risk and protective factors across childhood and adolescence. Note: Credit will be granted for only one of PSYC 366, PSYC 436. Prerequisite(s): PSYC 201 and PSYC 260. |
| PSYC 365    | 1.5   | 3-0-0 | PSYC 260 | Psychological Disorders of Childhood and Adolescence
Examines research and theory in clinical child psychology and developmental psychopathology. Discusses a variety of mental health challenges with respect to their description, etiology, treatment, and prevention. Multiple theoretical perspectives are covered to understand risk and protective factors across childhood and adolescence. Note: Credit will be granted for only one of PSYC 366, PSYC 436. Prerequisite(s): PSYC 201 and PSYC 260. |
| PSYC 366    | 1.5   | 3-0-0 | PSYC 365 | Psychological Disorders of Childhood and Adolescence
Examines research and theory in clinical child psychology and developmental psychopathology. Discusses a variety of mental health challenges with respect to their description, etiology, treatment, and prevention. Multiple theoretical perspectives are covered to understand risk and protective factors across childhood and adolescence. Note: Credit will be granted for only one of PSYC 366, PSYC 436. Prerequisite(s): PSYC 201 and PSYC 260. |
| PSYC 370A   | 1.5   | 3-0-0 | LING 370A | Psycholinguistics
The psychology of language, examining the process of comprehension and production, including language and cognition, conversational discourse, and inference and semantics, among other topics. Note: Credit will be granted for only one of PSYC 370A, PSYC 370, LING 370, LING 370A. Prerequisite(s): PSYC 100A and PSYC 100B; or permission of the department. |
| PSYC 370B   | 1.5   | 3-0-0 | PSYC 369, LING 369, LING 370B. | Child Language Acquisition
The biological bases of language; the stage by stage acquisition of the phonology, morphology, syntax, and semantics of the child's first language; the child's developing metalinguistic abilities; and the child's growing awareness of the form and function of speech acts, as well as the discourse rules governing conversations. Note: Credit will be granted for only one of PSYC 370B, PSYC 369, LING 369, LING 370B. Prerequisite(s): PSYC 100A and PSYC 100B; or permission of the department. |
| PSYC 370C   | 1.5   | 3-0-0 | PSYC 470, LING 470 | Topics in Psycholinguistics
Notes: Credit will be granted for only one of PSYC 370C, LING 370C (if taken in the same topic). May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units. |
| PSYC 376    | 1.5   | 3-0-0 | PSYC 370D | Social Psychology of Sexuality
An introduction to social psychological theories, methods, and empirical findings (with an emphasis on experimental research) on human sexuality. Topics will include: sexual desire and motivation, social-sexual perception, sex and the self, sexual orientation, and sexual health promotion. Note: Credit will be granted for only one of PSYC 376, PSYC 391 (if taken in the same topic). Prerequisite(s): PSYC 201 and PSYC 231. |
PSYC 386 Units: 1.5 Hours: 3-0-0
Cultural Psychology
Explores how cultural context shapes cognition, motivation, emotion, self, personality, and development.
Prerequisite(s): PSYC 201 and PSYC 231.

PSYC 390 Units: 1.5 or 3.0
Independent Study in Psychology
Directed independent study intended primarily to allow students and a faculty supervisor to pursue a topic of mutual interest. Complete Pro Forma arrangements must be made with an instructor in the department before registering.
Prerequisite(s): PSYC 201; and
minimum third-year standing; and
minimum GPA of 5.5 in the last 15 units of coursework; and
permission of the department.

PSYC 391 Units: 1.5 Hours: 3-0-0
Special Topics in Psychology
Intensive examination of a specific topic or area in Psychology. Topic(s) and information will be provided in advance of registration.
Prerequisite(s): PSYC 201; and
minimum third-year standing; and
additional prerequisites set by department depending upon topic.

PSYC 400A Units: 1.5 Hours: 3-0-0
Advanced Statistical Methods
An introduction to advanced research designs and their underlying rationale. Experimental design and statistical techniques will be applied to problems in psychology. Extensive treatment will be applied to the use of the general linear model. Examines designs having multiple independent variables and a single dependent variable. Topics covered include correlation, multiple regression, analysis of variance and sampling.
Prerequisite(s): PSYC 300A with a minimum grade of B+ and PSYC 300B with a minimum grade of B+.
Pre- or Corequisite(s): PSYC 499.

PSYC 405 Units: 1.5 Hours: 3-0-0
Core Concepts in Psychology
Seminar format dealing with core issues in psychology from both a modern and historical perspective. Topics include, but are not restricted to: perception and action; language and cognition; emotion and reason; volition and unconscious processes.
Pre- or Corequisite(s): PSYC 499; or Permission of the department.

PSYC 425 Units: 1.5 Hours: 3-0-0
Formerly: PSYC 431E
Advanced Environmental Psychology
An in-depth analysis of how people’s thoughts, feelings, and interactions influence and are influenced by the built and natural environment.
Note: Credit will be granted for only one of PSYC 425, PSYC 431E.
Prerequisite(s): PSYC 325 or PSYC 350.

PSYC 431B Units: 1.5 Hours: 3-0-0
Social Cognition
Intensive examination of the social psychological literature emphasizing how people think about and make sense of their social experience. Topics may include how people create and maintain a sense of identity, close relationships, attitudes, persuasion, applications of social psychology.
Prerequisite(s): PSYC 300A; and
two of PSYC 330, PSYC 375, PSYC 376, PSYC 385, PSYC 386.
Pre- or Corequisite(s): PSYC 300B.

PSYC 431G Units: 1.5 Hours: 3-0-0
Self-Regulation and Goals
An examination of the ways people select and prioritize goals; how they are pursued; factors that lead to success or failure in achieving particular aims; and consequences for individual functioning and well-being. Contemporary theoretical, conceptual and methodological issues. Emphasis on social-cognitive approaches to goals and self-regulation.
Note: Credit will be granted for only one of PSYC 431G, PSYC 491 (if taken in the same topic).
Prerequisite(s): PSYC 300A and PSYC 385; and
one of PSYC 320, PSYC 330, PSYC 375, PSYC 376, PSYC 386.
Pre- or Corequisite(s): PSYC 300B.

PSYC 431H Units: 1.5 Hours: 3-0-0
Advanced Interpersonal Relationships
An in depth examination of social psychological research, methods, and theory on close relationships with a focus on adult romantic relationships. Topics include the self and close relationships, commitment and interdependence, and attachment theory.
Note: Credit will be granted for only one of PSYC 431H, PSYC 491 (if taken in the same topic).
Prerequisite(s): PSYC 300A and PSYC 375; and
one of PSYC 320, PSYC 330, PSYC 375, PSYC 385, PSYC 386.
Pre- or Corequisite(s): PSYC 300B.

PSYC 431I Units: 1.5 Hours: 3-0-0
Formerly: PSYC 380
Psychology and Law
Consideration of the contributions of psychological theory and research to the understanding of crime investigation, courtroom dynamics, and the legal system. Specific topics will vary from year to year but may include eyewitness testimony, police practices, judge and jury decision making, lie detection and confessions, expert testimony. Topics will be discussed from the perspectives of social and cognitive psychology.
Note: Credit will be granted for only one of PSYC 431I, PSYC 380.
Prerequisite(s): PSYC 300A; and
two of PSYC 320, PSYC 330, PSYC 375, PSYC 376, PSYC 385, PSYC 386.
Pre- or Corequisite(s): PSYC 300B.

PSYC 431J Units: 1.5 Hours: 3-0-0
The Self
Seminar review of current personality and social psychological research and theory concerning the self. Specific topics will vary from year to year but may include gender, identity, self-concept, self-esteem, motivation and the self, social interactions in close relationships, and cultural influences on the self.
Prerequisite(s): PSYC 300A; and
two of PSYC 320, PSYC 330, PSYC 375, PSYC 376, PSYC 385, PSYC 386.
Pre- or Corequisite(s): PSYC 300B.

PSYC 435A Units: 1.5 Hours: 3-0-0
Advanced Infant and Child Development
Seminar review of theory and research examining psychological development from infancy through childhood. Special topics include brain development, cognitive development, social and emotional development, personality/temperament, parent-child relations, and socialization processes. Emphasis on the interplay between biology and cultural context in individual development.
Prerequisite(s): PSYC 300A and PSYC 335; and
PSYC 336 or PSYC 339.
Pre- or Corequisite(s): PSYC 300B.

PSYC 435C Units: 1.5 Hours: 3-0-0
Advanced Adolescent Development
Seminar review of theory and research examining psychological processes during adolescence and in the transition to adulthood. Specific topics include brain development, biological maturation, cognitive development, social-emotional development, parent-adolescent relations, gender roles, sexuality, and problem behaviour. Attention will be given to the role of the social and cultural context in adolescent development.
Prerequisite(s): PSYC 300A and PSYC 336; and
PSYC 335 or PSYC 339.
Pre- or Corequisite(s): PSYC 300B.
PSYC 435E  Units: 1.5  Hours: 3-0-0
Advanced Adult Development and Aging
Seminar review of theory and research examining psychological processes during adulthood and old age. Topics may include neurological development, cognitive development, social-emotional development, personality changes, neurodegenerative diseases (e.g., dementia), wisdom, and successful aging.
Pre- or Corequisite(s):
• PSYC 300A; and
• PSYC 335 or PSYC 336.

PSYC 442  Units: 1.5  Hours: 3-0-0
Formerly: PSYC 342
History and Theories in Lifespan Developmental Psychology
Seminar review of major classical (e.g., psychoanalytic, behaviorist, organismic) and contemporary (e.g., dynamic systems, sociocultural) theoretical perspectives and their implications for the study of psychological development across the lifespan. Emphasis on differences among theoretical perspectives with respect to central developmental issues such as concepts of change, sources of development, and the universality of developmental laws and findings.

Note: Credit will be granted for only one of PSYC 442, PSYC 342, PSYC 325.

PSYC 450  Units: 1.5  Hours: 3-0-0
Developmental Disorders and Learning Disabilities
Survey of a number of learning and developmental disorders. Discussion of etiologies, assessment procedures, current education/treatment approaches, and in-depth examination of underlying brain function. Emphasis on role of early environment in brain developmental and learning disorders. It is recommended that non-psychology students have a strong background in the biological sciences.
Pre- or Corequisite(s):
• All of PSYC 300A, PSYC 338, PSYC 351B.

PSYC 451A  Units: 1.5  Hours: 3-0-0
Formerly: part of PSYC 413A, PSYC 413B, PSYC 413C, PSYC 413D, PSYC 413E
Topics in Advanced Cognitive Psychology
Detailed analysis of a specific topic in cognitive psychology will be presented. The topic will vary with the course instructor but specializations include human memory, cognitive control, decision making, visual processes, and embodied cognition.
Note: Credit will be granted for only one of PSYC 451A, PSYC 413A, PSYC 413B, PSYC 413C, PSYC 413D, PSYC 413E.
Pre- or Corequisite(s):
• PSYC 300A; and
• PSYC 351A or two of PSYC 351B, PSYC 351C, PSYC 351D.

PSYC 451B  Units: 1.5  Hours: 3-0-0
Formerly: PSYC 415A
Advanced Neuropsychology
Examines brain behaviour relationships by studying qualitative changes in cognitive performance following focal brain damage. Topics include localization of function, aphasia, agnosia, apraxia and amnesia. Methods of clinical testing and diagnosis will be presented.
Note: Credit will be granted for only one of PSYC 451B, 415A, PSYC 415.
Pre- or Corequisite(s):
• PSYC 300A; and
• PSYC 351B or two of PSYC 351A, PSYC 351C, PSYC 351D.

PSYC 451C  Units: 1.5  Hours: 3-0-0
Topics in Advanced Cognitive Neuroscience
Detailed analysis of a specific topic in cognitive neuroscience will be presented. The topic will vary with the course instructor but specializations include human memory, cognitive control, decision making, visual processes, and embodied cognition. The focus of the course will be on the connections between cognitive processes and their neural mechanisms.
Pre- or Corequisite(s):
• PSYC 300A; and
• PSYC 351C or two of PSYC 351A, PSYC 351B, PSYC 351D.

PSYC 451D  Units: 1.5  Hours: 3-0-0
Formerly: PSYC 415B
Advanced Biological Psychology
Extensive, research-oriented examination of contemporary topics in biological psychology. Topics may include the biopsychology of motivation, memory, neural plasticity and changes in function after brain injury.
Note: Credit will be granted for only one of PSYC 451D, 415B, PSYC 423.
Pre- or Corequisite(s):
• One of PSYC 300A, STAT 255, STAT 260; and
• PSYC 351D or two of PSYC 351A, PSYC 351B, PSYC 351C.

PSYC 451E  Units: 1.5  Hours: 3-0-0
Pre- or Corequisite(s): PSYC 300B.

PSYC 460  Units: 1.5  Hours: 3-0-0
Family Violence across the Lifespan
In-depth examination in a seminar format of violence within the family including child abuse and neglect, intimate partner violence, dating violence, and elder abuse. Theory and research on causes and effects of family violence are examined. Special topics include definitional issues, case studies, research methods, prevention, treatment, and cultural, legal, and social issues.
Note: Credit will be granted for only one of PSYC 460, PSYC 391 (if taken in the same topic), PSYC 491 (if taken in the same topic).
Pre- or Corequisite(s):
• PSYC 300A and PSYC 365; and
• one of PSYC 330, PSYC 338, PSYC 366.

PSYC 461  Units: 1.5  Hours: 1.5-0-0
Formerly: PSYC 361
Field Placement in Psychology
Provides firsthand experience with individuals who are challenged by physical, cognitive, emotional, and/or psychological disorders. Requires approximately 65 hours of participation in a volunteer field placement with a community agency (spread over at least 4 months), class attendance and preparation of assignments pertaining to the volunteer experience. Students will be responsible for obtaining the field placement site, with assistance and coordination of the instructor. Meets September to April.

Notes:
• Credit will be granted for only one of PSYC 461, PSYC 361, PSYC 430.
• Students must register in PSYC 461 in both Fall and Spring terms.

Pre- or Corequisite(s): PSYC 300B.

Grading: COM, N, F.

PSYC 462  Units: 1.5  Hours: 3-0-0
Clinical Interventions, Prevention, and Health Promotion
An in-depth exploration of current research and intervention knowledge related to a specific aspect of mental health and well-being. Specific mental health topic will vary. Course includes applied opportunities to design and/or implement an intervention, prevention, or health promotion program.
Pre- or Corequisite(s):
• PSYC 300A and PSYC 365; and
• PSYC 338 or PSYC 366.

PSYC 463  Units: 1.5  Hours: 3-0-0
Special Topics in Clinical Psychology
Advanced study of a clinically-relevant topic.
Note: May be taken more than once for credit in different topics to a maximum of 3.0 units.
Pre- or Corequisite(s): PSYC 300B.

PSYC 467  Units: 1.5  Hours: 3-0-0
Advanced Psychology of Sexuality
A seminar focusing on understanding and applying specific theoretical perspectives to the social psychological study of human sexuality. Topics include: unique challenges/opportunities of sexuality research, implicit social cognition and sexuality, relational perspectives on sexuality, gender and sexuality, sexual orientation and sexuality, and sexuality and the self. Emphasis on critiquing existing research, and designing new studies that can offer strong tests of social psychological theories of sexuality.
Note: Credit will be granted for only one of PSYC 476, PSYC 491 (if taken in the same topic).
Pre- or Corequisite(s):
• PSYC 300A and PSYC 376; and
• one of PSYC 320, PSYC 330, PSYC 385, PSYC 386.

Pre- or Corequisite(s): PSYC 300B.
PSYC 490  Units: 1.5 or 3.0

Advanced Independent Study in Psychology
Directed independent study for the advanced student intended primarily to allow students and a faculty supervisor to pursue a topic of mutual interest. Complete Pro Forma arrangements must be made with an instructor in the department before registering.

Prerequisite(s):
- PSYC 300A and PSYC 390; and
- minimum fourth-year standing; and
- minimum GPA of 5.5 in the last 15 units of coursework; and
- permission of the department.

PSYC 491  Units: 1.5  Hours: 3-0-0

Advanced Special Topics in Psychology
Note: May be taken more than once for credit in different topics.
Prerequisite(s):
- PSYC 300A; and
- minimum fourth-year standing; and
- additional prerequisites set by department depending upon topic.

PSYC 492  Units: 1.5  Hours: 2-1-0

Research Seminar in Psychology
A seminar and laboratory research course for Psychology Honours and Majors. Course content will vary with instructor.

Prerequisite(s):
- May be taken more than once for credit in different topics.
- PSYC 300A; and
- permission of the department.

PSYC 499  Units: 3.0  Hours: 1-2-1

Honours Thesis and Seminar
Students will attend a weekly seminar which includes oral presentation of their proposed thesis research in the first term and a progress report of the research in the second term. For the remainder of the program, the students will work closely with a faculty supervisor regarding details of the written thesis which is submitted in April.

Prerequisite(s): Declared Honours in Psychology.

RS 200  Units: 1.5  Hours: 3-0-0

Religious Studies Program
Religious Studies Program Faculty of Humanities

Also: GRS 200

Greek and Roman Mythology
Study of Greek and Roman myths, in the context of the culture and thought of Greece and Rome. Uses literary and artistic sources to establish and analyze the nature and function of myths in these cultures. Topics include the gods, heroes, local myths, political and cultural uses of myths and the origins of the influence of Greek and Roman myths on European culture.

Note: Credit will be granted for only one of RS 200, GRS 200, CLAS 200.

RS 200A  Units: 1.5  Hours: 3-0-0

Introduction to Judaism, Christianity and Islam
An introductory survey of the sources, beliefs and practices of Judaism, Christianity and Islam. The traditions will be studied in their cultural and political contexts from both historical and contemporary perspectives.

Also: PAAS 204

RS 200B  Units: 1.5  Hours: 3-0-0

Introduction to Asian Religions
A survey of the sources, beliefs and practices of Hinduism, Buddhism, Sikhism and the Chinese religions. The traditions will be studied in their cultural and political contexts from both historical and contemporary perspectives.

RS 260  Units: 1.5  Hours: 3-0-0

The Bible as Literature
Surveys basic stories and books in the Old and New Testaments (including Genesis, Exodus, 1 and 2 Kings, Job, Song of Songs, Psalms, Isaiah, select minor prophets, the Gospels, Acts, select Pauline epistles, Hebrews and Revelations). Focus on the intrinsic literary features of the biblical books themselves. Aims to familiarize students with important biblical stories, genres and references in literature and religious discourse.

Note: Credit will be granted for only one of RS 260, ENGL 260, ENGL 365 (if taken prior to December 1983), ENGL 409.

RS 305  Units: 1.5  Hours: 3-0-0

Magic, Mysticism and the Occult
Survey of mysticism and the occult as found in the history and literature of various religious traditions; critical analysis of the nature and significance of mystical experience; an exploration of belief in occult forces and figures; probing the connection between the occult and mysticism and the relationship between mysticism, the occult, and knowledge.

Prerequisite(s): Minimum second-year standing.

Recommendation(s): RS 200A or RS 200B recommended prior to RS 305.

RS 306  Units: 1.5  Hours: 3-0-0

Critics of Religion
Examines critiques of religion from the modern “new atheists” and their historical precursors; may include figures such as Freud, Durkheim, Marx, Weber and Nietzsche. Assessment of these criticisms in order to understand the situation of religions in relation to society in the contemporary period.

Prerequisite(s): Minimum second-year standing.

Recommendation(s): RS 200A or RS 200B recommended prior to RS 306.

RS 307  Units: 1.5  Hours: 3-0-0

Religion & The Environment
Surveys of the influence religious beliefs and practices have had upon humanity’s understanding of the environment (nature). A consideration of the contributions that religious ethics can make to our reflection on specific environmental issues.

Prerequisite(s): Minimum second-year standing.

Recommendation(s): RS 200A or RS 200B recommended prior to RS 307.

RS 308  Units: 1.5  Hours: 3-0-0

Religion and Society in Canada
Introduces the ways Canadians respond to the religious and spiritual diversity that remain fundamental features of an increasingly secular society. Explores the often controversial issues that arise when Canadian schools, hospitals, courts, newspapers, legislatures, social media and security forces encounter religious and spiritual ideas, practices and communities.

Note: Credit will be granted for only one of RS 308, RS 302 (if taken in the same topic).

Prerequisite(s): Minimum second-year standing.

Recommendation(s): RS 200A or RS 200B recommended prior to RS 308.

RS 309  Units: 1.5  Hours: 3-0-0

Religion and Sexuality
Explores the relationship between sexuality and religion. Topics include sexual and religious ethics, gender roles assigned by religious traditions, the ways these roles are changing and the effect of these changes on contemporary societal norms in Canada and elsewhere.

Prerequisite(s): Minimum second-year standing.

Recommendation(s): RS 200A or RS 200B recommended prior to RS 309.

RS 310  Units: 1.5  Hours: 3-0-0

Topics in the Study of Religion
Note: May be taken more than once for credit in different topics with permission of the program.

Prerequisite(s):
- Minimum second-year standing or;
- permission of the program.

Recommendation(s): RS 200A and RS 200B recommended prior to RS 310.
### RS 311  
Units: 1.5  Hours: 3-0-0  
Also: PAAS 367  
**Gandhi and the Ethics of Nonviolence**  
Centres upon the life and teachings of Mohandas K. Gandhi. Examines Gandhi’s religious thought with regard to ideals of nonviolence (ahimsā) and truth (satya), as well as his attempts to realize these principles in the personal, social and political spheres. Also covers a number of religious and political figures with comparable views, including B. R. Ambedkar, Martin Luther King Jr., Malcolm X, Krishnamurti, Thich Nhat Hanh, Aung San Suu Kyi and the Dalai Lama.  
**Note:** Credit will be granted for only one of RS 311, RS 301 (if taken in the same topic), PAAS 367.  
**Prerequisite(s):** Minimum third-year standing.

### RS 326  
Units: 1.5  Hours: 3-0-0  
Also: HSTR 326  
**Religion and Spirituality in Canada**  
Explores spirituality and organized religion in Canada from pre-contact Indigenous experiences to today. Focuses on social and cultural dimensions of religion and spirituality, and also explores relevant political issues. Examines the emergence of secular ideas and practices in Canada since the 19th century and ongoing tensions between religion and secularism. Interactions with gender, class, sexuality, ethnicity, race, indigeneity, regional differences and conflicts rooted in religion and spirituality will be central.  
**Note:** Credit will be granted for only one of RS 326, HSTR 326.

### RS 337B  
Units: 1.5  Hours: 3-0-0  
Also: HSTR 337B  
**Reformation and Religious War in Europe**  
Examination of the religious, political and social factors that led to the breakdown of medieval Christianity in the West and to the foundation of the modern Catholic and Protestant faiths.  
**Note:** Credit will be granted for only one of RS 337B, HSTR 337B, HSTR 361.

### RS 361  
Units: 1.5  Hours: 3-0-0  
Also: PAAS 305  
**Religions of East Asia**  
A survey of the religious literature and systematic thought of the traditions of China and Japan, including Confucianism, Daoism, Buddhism and Shinto. Note: Credit will be granted for only one of RS 361, PAAS 305.  
**Note:** Credit will be granted for only one of RS 361, PAAS 305.  
**Prerequisite(s):** RS 208B or PAAS 204.

### RS 362  
Units: 1.5  Hours: 3-0-0  
Also: PAAS 306  
**Tibetan Buddhism**  
A survey of the main systems of Indic-Tibetan religious thought, with reference to primary sources. Traditions covered may include the six orthodox Hindu schools, the various Indian heterodox systems, Bon and the main branches of Tibetan Buddhism.  
**Note:** Credit will be granted for only one of RS 362, PAAS 306.  
**Prerequisite(s):** RS 208B or PAAS 204.

### RS 363  
Units: 1.5  Hours: 3-0-0  
Also: PAAS 363  
**The Buddhist Tradition**  
Covers the development of Indian Buddhism from a doctrinal and historical perspective, beginning with the historical Buddha (c. 500 BCE) and ending with the period of Buddhism’s first transmission to Tibet (c. 800 C.E.). Examines the philosophical perspectives found in the texts of a number of prominent schools including the Theravada, Sarvastivada, Madhyamaka and Yogacara.  
**Note:** Credit will be granted for only one of RS 363, RS 303 (if taken in the same topic), PAAS 363.

### RS 365  
Units: 1.5  Hours: 3-0-0  
Also: ENGL 365  
**17th-Century Poetry and Prose in an Age of Revolution**  
A study of how writers in 17th-century England responded to and participated in significant changes in science, politics, religion and art by re-imagining anew their Christian and classical inheritance. Authors to be studied include John Donne, Ben Jonson, Aemelia Lanyer, George Herbert, Andrew Marvell, Francis Bacon, Thomas Hobbes, Sir Thomas Browne, Margaret Cavendish and others working in poetry and prose.  
**Note:** Credit will be granted for only one of RS 365, RS 303, ENGL 365, ENGL 361.

### RS 369  
Units: 1.5  Hours: 3-0-0  
Also: Milton: Major Poetry and Selected Prose  
A study of Paradise Lost, Samson Agonistes and other poems and prose.  
**Note:** Credit will be granted for only one of RS 369, ENGL 369.

### RS 370  
Units: 1.5  Hours: 3-0-0  
Also: HSTR 370A  
**Intersections of Law and Religion from Ancient to Current Worlds**  
Comparative global exploration of relationships among law and religion, across multiple historical contexts and traditions. Includes theistic worldviews like Judaism, Christianity and Islam, with sources and manifestations of law unfolding from the biblical to contemporary worlds. Diverse understandings of law in non-theistic traditions like Hinduism and Buddhism. Within modern settings, emphasis on secularist outlooks that re-embodies, rather than eliminate, overlaps between law and religion, and on debates involving states’ attempts to monopolize control over religion.  
**Note:** Credit will be granted for only one of RS 370, HIST 468 (if taken in the same topic), HSTR 370A.

### RS 380  
Units: 1.5  Hours: 3-0-0  
Also: HSTR 380  
**Religion and the Making of the Modern Middle East**  
Examines the modern historical contexts within which various religions (e.g., Islam, Judaism, Christianity) and denominations (e.g., Sunni, Shi'a) have overlapped with, and been mobilized by state as well as non-state actors across the broader region. Comparative study of relevant developments within key countries (e.g., Arab states, Israel, Iran, Turkey, Afghanistan), as well as with respect to aspiring nationalist communities (e.g., Palestinians, Kurds) and political or social movements (e.g., Muslim Brotherhood, Hezbollah, IS).  
**Note:** Credit will be granted for only one of RS 380, HIST 443, HIST 468 (if taken in the same topic), HIST 469 (if taken in the same topic), HSTR 380, HIST 479.

### RS 401  
Units: 1.5  Hours: 3-0-0  
**Selected Topics in Religious Studies**  
Application of critical and analytic methods in Religious Studies to a particular religious topic. Topics may include: religion and death, religion and environment.  
**Note:** May be taken more than once for credit in different topics with permission of the program to a maximum of 6 units.  
**Prerequisite(s):**  
- Minimum fourth-year standing; or  
- permission of the program.

### RS 403  
Units: 1.5  Hours: 3-0-0  
**Studies in Religion and Society**  
Course study based on events at or organized by the Centre for Studies in Religion and Society, including weekly lectures by Centre Fellows, daily discussions, distinguished speaker series, faculty symposia and interdisciplinary research projects.  
**Note:** May be taken more than once for credit in different topics with permission of the program to a maximum of 6 units.  
**Prerequisite(s):**  
- RS 200A and RS 200B; and  
- RS 301 or RS 302; or  
- permission of the program.

### RS 450  
Units: 1.5  Hours: 3-0-0  
**Capstone Seminar**  
Graduating Major’s research project consisting of readings and assignments based on what has been learned from the academic study of religion in the program and focused on the relationship of religion and society. Designed to develop as well as measure the student’s integration of the various aspects of the discipline of Religious Studies.  
**Prerequisite(s):**  
- RS 200A and RS 200B; and  
- two of RS 303, RS 305, RS 306, RS 307, RS 308, RS 309, RS 310; and  
- minimum fourth-year standing; and  
- declared Major in Religious Studies;  
- or permission of the program.
RS 464          Units: 1.5          Hours: 3-0-0
Also: ENGL 464
Formerly: part of ENGL 409

The Bible and Literature in English
The relationship between the Bible and the canon of literature in English, and especially intertextual relationships between biblical and literary texts. Topics include the history of biblical translation, the Bible and popular culture, the combination of biblical and classical mythologies in the creation of Western cultural ideals, the impact of biblical interpretation on literary theory. May include literary works by Shakespeare, Milton, Melville, Faulkner, Atwood.
Note: Credit will be granted for only one of RS 464, ENGL 469 ENGL 464.

RS 479          Units: 1.5          Hours: 3-0-0
Also: HSTR 479

Religion and State in the Modern Middle East
Examines the historical junctures and socio-economic conditions in which modern Islamic movements have emerged. Comparative study of the politicization of Christian and Jewish communities in the Middle East (the Arab East, plus Iran, Israel, Turkey) and North Africa; reflection on the political influence of religion in neighbouring areas.
Note: Credit will be granted for only one of RS 479, HIST 443, HIST 468 (if taken in the same topic), HIST 469 (if taken in the same topic), HIST 388, HISTR 479.
Recommendation(s): HSTR 112, or HSTR 112A and HISTR 112B recommended prior to HSTR 479.

RS 490          Units: 1.5          Hours: 3-0-0

Directed Reading
Students wishing to pursue a course of directed readings should, together with a faculty member willing to supervise such a course, formulate a proposal describing both the content of the course and a suitable means of evaluating the student’s work.
Note: May be taken more than once for credit in different topics with permission of the program; however, a maximum of 3 units are applicable to the Major in Religious Studies.
Prerequisite(s): Permission of the program.

RS 493          Units: 1.5          Hours: 3-0-0
Also: PAAS 493

Seminar in Buddhism in English
Buddhist literature from a variety of primary sources. Students will engage in a close reading of selected texts, with additional secondary literature and commentaries.
Note: Credit will be granted for only one of RS 493, PAAS 493.
Prerequisite(s):
• RS 268 or PAAS 204; or
• permission of the department.

SCIE

Science

Faculty of Science

SCIE 190          Units: 1.5
Individual Study
Granted only by special permission of the Dean of Science, on recommendation of the department and only in situations involving extenuating circumstances, illness, accident or family affliction.

SCIE 290          Units: 1.5
Individual Study
Granted only by special permission of the Dean of Science, on recommendation of the department and only in situations involving extenuating circumstances, illness, accident or family affliction.

SCIE 390          Units: 1.5
Individual Study
Granted only by special permission of the Dean of Science, on recommendation of the department and only in situations involving extenuating circumstances, illness, accident or family affliction.

SENG

Software Engineering

Software Engineering

Faculty of Engineering

Some Faculty of Engineering courses are only open to students in the faculty or in specific programs. Courses and applicable restrictions are listed at www.uvic.ca/engineering/courseaccess.php
Courses offered by the Faculty of Engineering are also found under the following course codes: BME (Biomedical Engineering), CIVE (Civil Engineering), CSC (Computer Science), ECE (Electrical and Computer Engineering), ENGR (Engineering) and MECH (Mechanical Engineering).

SENG 265          Units: 1.5          Hours: 3-1.5-0
Software Development Methods
Systematic methods for designing, coding, testing and documenting medium-sized programs. Tools and techniques to promote programming productivity and software quality. Topics include specifications, code review and inspection techniques, testing and debugging methods and tools, file system navigation, scripting languages, software tools, environments, instrumenting and profiling and the fundamentals of software configuration management.
Note: Credit will be granted for only one of SENG 265, CSC 265.
Prerequisite(s): CSC 115 or CSC 116.

SENG 275          Units: 1.5          Hours: 3-2-0
Software Testing
An introduction to the testing of large-scale systems. Software specification, unit testing, integration testing, test driven development, black box testing, code inspection, model-based testing, software defect tracking and tools for automated testing. A software project gives experience with larger scale testing.
Prerequisite(s): SENG 265.

SENG 310          Units: 1.5          Hours: 3-2-0
Human Computer Interaction
Understanding human behaviour as it applies to user interfaces: work activity analysis, observational techniques, questionnaire administration and obtrusive measures. Operating parameters of the human cognitive system, task analysis and cognitive modelling techniques and their application to designing interfaces. Interaction design principles and prototyping techniques. Evaluation techniques including cognitive walkthroughs, usability studies and verbal protocol analysis are used to evaluate interface design. Case studies of specific user interfaces.
Prerequisite(s): One of SENG 221, SENG 265, CENG 241, ECE 241.

SENG 321          Units: 1.5          Hours: 3-3-0
Requirements Engineering
Combines a range of topics integral to the analysis of requirements, design, implementation, and testing of a medium-scale software system with the practical experience of implementing such a project as a member of a software engineering team. Introduces requirements engineering, specifications, software life cycle models and methods for requirements engineering.
Prerequisite(s): SENG 265.

SENG 330          Units: 1.5          Hours: 3-0-0
Object-Oriented Software Development
Introduction to the discipline of object-oriented software design. Topics include encapsulation, polymorphism, inheritance, inversion of control, testing object-oriented code, concurrency, and design patterns. Development of practical skills using modern tools and techniques based on current research and practice in software engineering.
Prerequisite(s): SENG 265.

SENG 350          Units: 1.5          Hours: 3-3-0
formerly SENG 271, SENG 299
Software Architecture and Design
An introduction to analysis and design of software architectures with architecture description languages and their subsequent synthesis at the program level. Topics include requirements analysis, analysis and design of static and dynamic view points of architectures and model driven engineering. Architectural styles and tactics are introduced and applied as solutions to recurring design problems. Students are familiarized with component reuse, event-driven programming and computer-aided software engineering tools. The course includes a major design project.
Note: Credit will be granted for only one of SENG 350, SENG 271, SENG 299.
Prerequisite(s):
• SENG 275 and
• minimum second-year standing.
### SENG 360 - Security Engineering
**Units:** 1.5  **Hours:** 3-2-0

**Topics:** Include basic cryptography, security protocols, access control, multilevel security, physical and environmental security, network security, application security, e-services security, human aspects and business continuity planning. Discusses applications which need various combinations of confidentiality, availability, integrity and covertness properties; mechanisms to incorporate and test these properties in systems. Policy and legal issues are also covered.

**Prerequisite(s):**
- SENG 265, and
- minimum third-year standing in the Software Engineering or Computer Engineering or Computer Science program.

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### SENG 371 - Software Evolution
**Units:** 1.5  **Hours:** 3-2-0

**Introduces:** Problems and solutions of long-term software maintenance/evolution and large-scale, long-lived software systems. Topics include software engineering techniques for programming-in-the-large, programming-in-the-many, legacy software systems, software architecture, software evolution, software maintenance, reverse engineering, program understanding, software visualization, advanced issues in object-oriented programming, design patterns, antipatterns, and client-server computing. Culminates in a team project.

**Note:** Credit will be granted for only one of SENG 371, SENG 420.

**Prerequisite(s):** One of SENG 271, SENG 275, SENG 299, SENG 327.

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### SENG 401 - Social and Professional Issues
**Units:** 1.5  **Hours:** 3-0-0

**Introduces:** Students to the larger societal context across Software Engineering and Computer Science. Topics include: the impact of software and hardware systems on privacy and柄 handling of personal and proprietary information; the roles of encryption and interception of confidentiality, availability, integrity and covertness of information; trust in computers; democracy, free speech and civil discourse; intellectual property; computer crime; computers in the workplace; professional ethics and responsibilities; sustainable development and environmental stewardship; social ethics and relationships; economic exchange.

**Prerequisite(s):** Minimum fourth-year standing.

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### SENG 411 - Advanced Methods for Human Computer Interaction
**Units:** 1.5  **Hours:** 3-3-0

**Laboratory course building on the interaction design process.** Theory and application of advanced methods for design and evaluation, including interface prototyping and design techniques; experiments and observational studies both in the laboratory and in the field; methods for statistical and qualitative analysis. Advanced topics: underlying models of human computer interaction; new trends in interaction design; and research frontiers. Students undertake a major team project.

**Prerequisite(s):**
- SENG 310, and
- one of STAT 252, STAT 254, STAT 255, STAT 260.

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### SENG 421 - Global Software Engineering
**Units:** 1.5  **Hours:** 3-2-0

**Overview:** The methods, tools and strategies used in developing software in large and geographically distributed teams. Topics include: agile development methodologies, activities of communicating with the clients to gather and analyze requirements, project planning and estimation in agile projects, distributed version control, communicating across cultural and time zone boundaries. Students will work in distributed project teams and experience global software development environments.

**Note:** Credit will be granted for only one of SENG 421, SENG 480A (if taken in the same topic), SENG 480B (if taken in the same topic), SENG 480C (if taken in the same topic), SENG 480D (if taken in the same topic).

**Prerequisite(s):**
- SENG 265, and
- minimum fourth-year standing.

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### SENG 422 - Advanced Software Architecture
**Units:** 1.5  **Hours:** 3-3-0

**Architectural design of complex software systems and systems of systems.** Techniques for designing, evaluating and implementing software system structures. Cloud computing paradigm, technology model, and programming framework. Cloud software architecture and application structure. Students must complete a project that involves substantial software design. Students work in teams. The coursework includes: a preliminary design review; presentation; demonstration of the design; a final report.

**Prerequisite(s):** One of SENG 271, SENG 299, SENG 330, SENG 350.

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### SENG 426 - Software Quality Engineering
**Units:** 1.5  **Hours:** 3-2-0

**Emphasizes:** This field as an integral facet of software development, from requirements through delivery and maintenance. The students will learn and apply the principles of modern software engineering practices, such as DevOps and Site Reliability Engineering (SRE), with an emphasis on automation, continuous delivery and deployment. Topics will include how to plan and achieve quality assurance goals such as reliability, security, performance and scalability for complex software systems.

**Prerequisite(s):** One of SENG 321, SENG 371, CENG 356, ECE 356.

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### SENG 435 - Computer-Supported Cooperative Work
**Units:** 1.5  **Hours:** 3-0-0

**Understanding of how work involves extensive coordination and communication that is mediated through technology.** Successful cooperative software designs require social psychological insight into group processes and online communities; computer science insight into mechanisms to organize information, coordinate, share, and communicate; and HCI design insights to achieve successful designs for modern collaboration, coordination and communication tools. Examines problems and solutions in group coordination and systems including group decision support, organizational memory, virtual spaces, and collaborative design.

**Prerequisite(s):** SENG 310.

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### SENG 440 - Embedded Systems
**Units:** 1.5  **Hours:** 3-1-0

**Characteristics and design of embedded systems.** Formal models and specification languages for capturing system behaviour. Techniques for specification, exploration and refinement. System partitioning and hardware/software co-design. Tools for validation, verification and simulation. Quality and performance metrics.

**Prerequisite(s):** One of CENG 355, CENG 355, ECE 355.

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### SENG 460 - Practice of Information Security and Privacy
**Units:** 1.5  **Hours:** 3-0-0

**Aims to present:** A holistic view of various security engineering topics through practical case studies. Topics include enterprise security architecture, security threat and risk assessment, education and awareness, monitoring, investigation and forensics, application security, media handling and intellectual property, privacy, physical and environmental security, and business continuity planning. Also introduces information security-related certification and relevant professional associations.

**Prerequisite(s):** Minimum fourth-year standing in the Faculty of Engineering.

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### SENG 461 - Network Security
**Units:** 1.5  **Hours:** 3-1-0

**Surveys the challenges, principles and practice of modern network security.** Topics include: network security vulnerabilities and threats, network security risk analysis techniques and countermeasures; design and implementation of secure network architecture; intrusion detection and prevention models and technologies, firewall architectures and technologies, network security protocols, Virtual Private Networks (VPNs), principles, techniques and practice of network forensics.

**Prerequisite(s):** One of SENG 460, CSC 361, ECE 458.

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### SENG 468 - Software System Scalability
**Units:** 1.5  **Hours:** 3-0-1

**Introduction to scalability issues within modern distribution software systems.** Middleware and cloud-based systems. Workload and system performance characterization, modelling, and testing. Identification and resolution of bottlenecks. Completion of a project is required.

**Note:** Credit will be granted for only one of SENG 468, SENG 462.

**Prerequisite(s):**
- CSC 360 and CSC 370, or
- CENG 356 or ECE 356, and CENG 460 or ECE 458.

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### SENG 474 - Data Mining
**Units:** 1.5  **Hours:** 3-1-0

**An introduction to data mining.** Data preparation, model building, and data mining techniques such as clustering, decision trees and neural networks will be discussed and applied to case studies. Data-mining software tools will be reviewed and compared.

**Prerequisite(s):**
- SENG 265, and
- MATH 110 or MATH 211, and
- one of STAT 252, STAT 254, STAT 255, STAT 260, and
- minimum third-year standing.
**Advanced Programming Techniques for Robust Efficient Computing**

Advanced programming techniques for robust high-efficiency computing are explored in the context of a single programming language, such as C++ or Swift. Topics covered may include: concurrency, parallelism, and vectorization; cache-efficient coding; compile-time versus run-time computation; generic programming techniques; resource/memory management; copy and move semantics; exception-safe coding; techniques for writing correct, efficient, and optimizer-friendly code. Application areas considered may include: signal/geometry processing, computer graphics, and numerical analysis.

**Prerequisite(s):**
- One of SENG 265, CENG 255, CSC 230, CSC 349A, ECE 255, or permission of the department.

**SENG 480A Units: 1.5 Hours: 3-0*-0**

Formerly: SENG 480

**Topics in Software Engineering**

Presents material in an emerging field or one not covered in regular offerings. Topics depend primarily on the interests of the instructor. Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.

* Lab hours may vary depending on the topic.

**Notes:**
- Credit will be granted for only one of SENG 480A, SENG 480B (if taken in the same topic), SENG 480C (if taken in the same topic), SENG 480D (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

**SENG 480B Units: 1.5 Hours: 3-0*-0**

Formerly: SENG 480

**Topics in Software Engineering**

Presents material in an emerging field or one not covered in regular offerings. Topics depend primarily on the interests of the instructor. Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.

* Lab hours may vary depending on the topic.

**Notes:**
- Credit will be granted for only one of SENG 480A, SENG 480B (if taken in the same topic), SENG 480C (if taken in the same topic), SENG 480D (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

**SENG 480C Units: 1.5 Hours: 3-0*-0**

Formerly: SENG 480

**Topics in Software Engineering**

Presents material in an emerging field or one not covered in regular offerings. Topics depend primarily on the interests of the instructor. Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.

* Lab hours may vary depending on the topic.

**Notes:**
- Credit will be granted for only one of SENG 480C, SENG 480A (if taken in the same topic), SENG 480B (if taken in the same topic), SENG 480D (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

**SENG 480D Units: 1.5 Hours: 3-0*-0**

Formerly: SENG 480

**Topics in Software Engineering**

Presents material in an emerging field or one not covered in regular offerings. Topics depend primarily on the interests of the instructor. Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.

* Lab hours may vary depending on the topic.

**Notes:**
- Credit will be granted for only one of SENG 480D, SENG 480A (if taken in the same topic), SENG 480B (if taken in the same topic), SENG 480C (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

**SENG 490 Directed Studies**

**Note:** May be taken more than once for credit in different topics with permission of the department.

**Prerequisite(s):** Permission of the department.

**SENG 498 Honours Thesis**

A major engineering design and research project under the supervision of a faculty member. The work involves independent study of the current literature and independent research and design. At the end of the term, each student submits a report and discusses the findings in an oral presentation.

**Note:** Normally taken over two terms. This course may only be taken once replacing two technical electives, one of which can be SENG 499.

**Prerequisite(s):**
- All of Year 3 courses in Software Engineering; and
- minimum cumulative GPA of 5.0; and
- permission of the department.

**Grading:** INP, standard grade.

**SENG 499 Design Project II**

The student is required to pursue a team-based project under the supervision of a faculty member. The project involves independent study of the current literature and independent research and design. At the end of the term, each student submits a report and discusses the findings in an oral presentation.

**Note:** Credit will be granted for only one of SENG 499, CENG 499, ECE 499, ELEC 499.

**Prerequisite(s):**
- SENG 299 or SENG 350; and
- ENGR 002, and
- minimum fourth-year standing in the Software Engineering program.

**SJS Social Justice Studies**

**Interdisciplinary Programs**

**SJS 100 Units: 1.5 Hours: 3-0-0**

**Introduction to Theories of Social Justice**

An interdisciplinary, team-taught study focusing on the central theoretical frameworks utilized by scholars. Introduces key thinkers associated with social justice studies.
SLST

Slavic Studies
Department of Germanic and Slavic Studies
Faculty of Humanities

SLST 100  Units: 1.5  Hours: 3-0-0
Introduction to Russian Society and Culture
Introduction to Russian society and culture from earliest times to the present. Explores Russian historical ties to other Slavic cultures, Asia and Europe. Discussion of the Russian national character as a cultural phenomenon by examining its geographical, historical and political sources.
Note: No knowledge of Russian required.

SLST 101  Units: 1.5  Hours: 3-0-0
Formerly: RUSS 100A
Beginning Russian I
For students with no previous knowledge of Russian. Covers the basics of Russian grammar, reading and conversation at the beginner’s level resulting in an ability to communicate in selected typical situations. Introduction to various aspects of everyday Russian life and culture through the language.
Note: Credit will be granted for only one of SLST 101, RUSS 100, RUSS 100A.

SLST 102  Units: 1.5  Hours: 3-0-0
Formerly: RUSS 100B
Beginning Russian II
Continuation of the development of basic reading, writing and conversational skills. Introduction to various aspects of everyday Russian life and culture through the language.
Note: Credit will be granted for only one of SLST 102, RUSS 100, RUSS 100B.
Prerequisite(s):
• SLST 101 or RUSS 100A; or
• permission of the department.

SLST 111  Units: 1.5  Hours: 3-0-0
Formerly: UKR 100A
Beginning Ukrainian I
Introduction to the essential points of grammar and basic vocabulary for everyday interaction, as well as reading and writing.
Note: Credit will be granted for only one of SLST 111, UKR 100A.

SLST 112  Units: 1.5  Hours: 3-0-0
Formerly: UKR 100B
Beginning Ukrainian II
Expands knowledge and skills acquired in SLST 111. Progress toward command of the spoken and written language.
Note: Credit will be granted for only one of SLST 112, UKR 100B.
Prerequisite(s):
• SLST 111 or UKR 100A; or
• permission of the department.

SLST 160  Units: 1.5  Hours: 3-0-0
Formerly: RUSS 161
The Culture of the Russian Revolution
An exploration of the literature, film and art produced by the revolution that shook the world. Introduction to Russia’s rich contribution to modern world culture and an investigation of the experiments of the Russian avant-garde.
Notes:
• Credit will be granted for only one of SLST 160, RUSS 161.
• No knowledge of Russian required.

SLST 180  Units: 1.5  Hours: 3-0-0
Formerly: SLST 462
Magic and the Fairy Tale World
An introduction to Russian folk beliefs and magic, as well as the fairy tale in the Russian, Soviet and post-Soviet context. Topics may include shared world fairy tale themes and popular folk and fairy tale figures in literature, animation and live-action film.
Notes:
• Credit will be granted for only one of SLST 180, SLST 462.
• No knowledge of Russian required.

SLST 201  Units: 1.5  Hours: 3-0-0
Formerly: RUSS 200A
Intermediate Russian I
Expands and enhances spoken and written knowledge and skills. Grammatical features, vocabulary, sentence structure and insight into Russian life and culture.
Note: Credit will be granted for only one of SLST 201, RUSS 200, RUSS 200A.
Prerequisite(s):
• One of SLST 102, RUSS 100, RUSS 100B; or
• permission of the department.

SLST 202  Units: 1.5  Hours: 3-0-0
Formerly: RUSS 200B
Intermediate Russian II
Furthers knowledge of grammar and vocabulary at the intermediate level with continued reading, writing, listening and speaking in Russian while learning about Russian life and culture.
Note: Credit will be granted for only one of SLST 202, RUSS 200, RUSS 200B.
Prerequisite(s):
• SLST 201 or RUSS 200A; or
• permission of the department.

SLST 203  Units: 1.5  Hours: 3-0-0
Formerly: RUSS 203
Pronunciation and Colloquial Russian
Focuses on Russian pronunciation, phonetics and intonation as well as colloquial language. Aims to build a foundation for confidence in spoken Russian. Proverbs and sayings, tongue-twisters, nursery rhymes, songs and cartoons provide an insight into Russian popular culture.
Note: Credit will be granted for only one of SLST 203, RUSS 203.
Prerequisite(s):
• One of SLST 101, RUSS 100, RUSS 100A; or
• permission of the department.

SLST 210  Units: 1.5  Hours: 3-0-0
Special Topics
Note: May be taken more than once for credit in a different topic with permission of the department to a maximum of 4.5 units.

SLST 300  Units: 1.5  Hours: 3-0-0
Slavic Cultural Studies
Provides case studies in the cultural history of Slavic and other Eastern European countries in which students analyze texts, films, media, as well as visual and material objects and spaces from a variety of approaches and perspectives.
Note: No knowledge of Russian or Ukrainian is required.

SLST 301  Units: 1.5  Hours: 3-0-0
Formerly: RUSS 300A
Advanced Russian
For advanced-to-intermediate students of Russian. Focus on understanding advanced grammar features and developing communication skills while learning about Russian literature and culture.
Note: Credit will be granted for only one of SLST 301, RUSS 300A, RUSS 302.
Prerequisite(s):
• SLST 201 and SLST 202; or
• RUSS 200; or
• RUSS 200A and RUSS 200B; or
• permission of the department.

SLST 303  Units: 1.5  Hours: 3-0-0
Formerly: RUSS 303
Russian Popular Culture (in Russian)
For advanced to intermediate students of Russian. Focuses on improving mastery of the spoken language and comprehension and study of Russian popular culture in the original language.
Note: Credit will be granted for only one of SLST 303, RUSS 300B, RUSS 302, RUSS 303.
Prerequisite(s):
• One of SLST 201 and SLST 202, RUSS 200, RUSS 200A and RUSS 200B; or
• permission of the department.

SLST 345  Units: 1.5  Hours: 3-0-0
Also: HSTR 345
The Eastern Front in the First and Second World Wars
Examines the military, political, and social aspects of the Eastern Front in Europe during both World Wars. Aims to analyze the Eastern Front’s difference from the warfare in the West, and how this specificity explains the origins of revolutionary violence and genocide.
Note: Credit will be granted for only one of SLST 345, SLST 410 (if taken as section A02 in Sep-Dec 2014), HSTR 340 (if taken as section A02 in Sep-Dec 2014), HSTR 345.

COURSE LISTINGS SLST
SLST 360  Units: 1.5  Hours: 3-0-0  
Major Figures of Russian Culture and History
An overview of the most influential people in Russian culture and history, such as Peter the Great, Catherine the Great, Lenin, Gorbachev, Putin, Lomonosov, Tchaikovsky, Pushkin, Tolstoy and Solzhenitsyn. Discussion of the role of the individual in the development of a nation.
Note: No knowledge of Russian required.

SLST 361  Units: 1.5  Hours: 3-0-0  
Also: HSTR 351  
Formerly: SLAV 374, HIST 374  
Imperial Russia, 1689-1917
A history of Russian Empire from Peter the Great to the fall of the monarchy. Traces Russia's response to the challenge of the West, with special attention to political reforms, social transformation and cultural change. Discussion of whether Late Imperial Russia was history's dead end or a promise cut short by revolutionary violence.
Notes:  
• Credit will be granted for only one of SLST 361, SLAV 374, HIST 374, HSTR 351.  
• No knowledge of Russian required.

SLST 362  Units: 1.5  Hours: 3-0-0  
Also: HSTR 352  
Formerly: SLAV 376, HIST 376  
The Soviet Union and Its Successor States, 1917-2000
A history of the Soviet Union and its aftermath. Examines political, economic, social and cultural transformations that shaped the Soviet socialist experiment, as well as the causes of its collapse and the difficulties of post-communist transition in Russia and non-Russian republics. Emphasis on social history, gender and everyday life.
Notes:  
• Credit will be granted for only one of SLST 362, SLAV 376, HIST 376, HSTR 352.  
• No knowledge of Russian required.

SLST 363  Units: 1.5  Hours: 3-0-0  
Also: HSTR 353  
Formerly: SLAV 377, HIST 377  
Modern Ukraine and Russian-Ukrainian Conflict
Examines the formation of the modern Ukrainian nation with special emphasis on its historical relations with Russia. Discusses popular revolutions in Ukraine and the ensuing Russian-Ukrainian conflict in the wider historical context of imperial disintegration.
Notes:  
• Credit will be granted for only one of SLST 363, SLAV 377, HIST 377, HSTR 353.  
• No knowledge of Ukrainian required.

SLST 364  Units: 1.5  Hours: 3-0-0  
Eastern Europe Through Western Eyes
A study of Western literary and cinematic representations of Eastern Europe, as well as Eastern European cultural reactions to these. Focus on the period from the 18th century to the present, with special attention to the 20th-century mass culture and the redefinition of the European “East” in the wake of communism’s collapse.
Notes:  
• May count towards a Minor in Film Studies.  
• No knowledge of Russian required.

SLST 365  Units: 1.5  Hours: 3-0-0  
Formerly: SLST 262, RUSS 261  
Stalinism
A survey of social processes and cultural life in the Soviet Union under Stalin (1922-1953). Combines a historical study of Stalinism with an introduction to the literature, films and visual art of the period.
Notes:  
• Credit will be granted for only one of SLST 365, SLST 262, RUSS 261.  
• No knowledge of Russian required.

SLST 401  Units: 1.5  Hours: 3-0-0  
Formerly: RUSS 400A  
Advanced Russian Practice
For advanced students of Russian. Stresses written composition, translation and stylistic analysis, and focuses on enhancing reading skills.
Note: Credit will be granted for only one of SLST 401, RUSS 400A, RUSS 406.
Prerequisite(s):  
• One of SLST 301, SLST 303, RUSS 300A, RUSS 300B, RUSS 303; or  
• permission of the department.

SLST 403  Units: 1.5  Hours: 3-0-0  
Topics in Russian Culture, Literature, Film (in Russian)
For advanced students of Russian. Focuses on conversational fluency, comprehension and written composition.
Notes:  
• Credit will be granted for only one of SLST 403, RUSS 403, RUSS 427.  
• May be taken more than once for credit in different topic with permission of the department to a maximum of 4.5 units.
Prerequisite(s):  
• One of SLST 301, SLST 303, RUSS 300A, RUSS 303; or  
• permission of the department.

SLST 410  Units: 1.5  Hours: 3-0-0  
Formerly: RUSS 434  
Special Topics
Notes:  
• Credit will be granted for only one of SLST 410, RUSS 434 (if taken in the same topic).  
• May be taken more than once for credit in different topic with permission of the department to a maximum of 4.5 units.

SLST 450  Units: 1.5  Hours: 3-0-0  
Cold War on Film
A study of the enemy’s image in Soviet and Western films of the Cold War era. Analysis of films and related literary and political texts tracing the cultural construction of Cold War animosity from 1945 to the recent renewal of geopolitical rivalry between Russia and the West.
Notes:  
• May count towards a Minor in Film Studies.  
• No knowledge of Russian required.

SLST 451  Units: 1.5  Hours: 3-0-0  
Formerly: RUSS 416  
Stalinist Cinema
Focuses on the interaction of art, mass entertainment and socialist propaganda in the Stalinist film industry. Major films of the time will be analyzed against the background of contemporary political and social developments.
Notes:  
• Credit will be granted for only one of SLST 451, RUSS 416.  
• May count towards a Minor in Film Studies.  
• No knowledge of Russian required.

SLST 452  Units: 1.5  Hours: 3-0-0  
Fantasy and Science Fiction in Russia
A survey of Russian fantasy and science fiction. Introduction to the best Russian authors of the genre, their works and to films that foreground Science Fiction and fantasy plots. Discussion of the historical background of 20th century Russia in relation to the development of the genre.
Note: No knowledge of Russian required.

SLST 460  Units: 1.5  Hours: 3-0-0  
History and Memory in Eastern European Cultures
A study of the construction of historical memory through literary and artistic representations of the past in several Eastern European nations. Focus on the role of historical novels in the cultural work of modern nationalism and cinematic treatment of the 20th-century wars and ethnic conflicts.
Note: No knowledge of Russian required.

SLST 461  Units: 1.5  Hours: 3-0-0  
Putin’s Russia
An exploration of Russian culture and politics under the controversial leadership of Vladimir Putin. Topics may include Putin’s rise to power, the Pussy Riot scandal, LGBT rights under Putin, the Sochi Olympics and Russian-Ukrainian conflict.
Notes:  
• Credit will be granted for only one of SLST 461, SLST 410 (if taken in the same topic).  
• No knowledge of Russian required.

SLST 480  Units: 1.5  Hours: 3-0-0  
Formerly: RUSS 310  
Tolstoy and the Age of Anna Karenina
The major works of Tolstoy, studied against the background of his life and times, with a special emphasis on the novel Anna Karenina and its many film adaptations.
Notes:  
• Credit will be granted for only one of SLST 480, RUSS 310, RUSS 412, RUSS 413, RUSS 414.  
• No knowledge of Russian required.

SLST 481  Units: 1.5  Hours: 3-0-0  
Formerly: RUSS 311  
Existence and Anxiety in Dostoevsky
The major works of Dostoevsky, studied against the background of his life and times.
Notes:  
• Credit will be granted for only one of SLST 481, RUSS 310, RUSS 311, RUSS 412, RUSS 413, RUSS 414, SLAV 334 (if taken in the same topic).  
• No knowledge of Russian required.
SLST 482 - Units: 1.5 - Hours: 3-0-0
Twentieth-Century Genocides in Eastern Europe
Examines the common and unique features of genocides, ethnic cleansings, and forced population transfers in twentieth-century Eastern Europe including the Ukrainian Famine, the Holocaust and the Bosnian War.
Notes:
• Credit will be granted for only one of SLST 482, SLST 410 (if taken in the same topic), SLST 581.
• No knowledge of any Slavic languages required.
• May be offered as a joint undergraduate and graduate class.

SLST 490 - Units: 1.5 - Hours: 3-0-0
Directed Studies
Directed readings and written assignments under the supervision of a faculty member.
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
Prerequisite(s): Permission of the department.

SLST 499 - Units: 1.5
Honours Thesis
During either semester of the final year of their Honours program, students will write a graduating thesis of approximately 7,500 words under the direction of a member of the department. An oral examination covering the topic of the thesis will be given by a departmental committee.

SMGT - Service Management
Peter B. Gustavson School of Business
Courses offered by the Peter B. Gustavson School of Business are also found under the following course codes: COM (Commerce), ENT (Entrepreneurship), IB (International Business), MBA (Master’s of Business Administration).

SMGT 415 - Units: 1.5 - Hours: 3-0-0
Formerly: HSM 415
Customer Experience Management
Focuses on what it takes to successfully design and deliver a superior experience to customers. Among the topics covered are: service design, integrated marketing communication, customer loyalty and relationship management; managing customer participation, service pricing and understanding consumer decision making.
Note: Credit will be granted for only one of SMGT 415, HSM 415.
Prerequisite(s):
• All of COM 315, COM 316, COM 321, COM 322, COM 331, COM 341, COM 351, COM 361, COM 362, COM 371; or
• permission of the school.
Corequisite(s): SMGT 416 and SMGT 417.

SMGT 416 - Units: 1.5 - Hours: 3-0-0
Formerly: HSM 416
Service Operations and Quality Management
Explores the key challenge in managing specific service processes and also considers quality management frameworks and principles. Topics to be examined are: defining and measuring service quality, quality economics and customer worth, designing and planning for service quality, QFD and the House of Quality, service capacity planning and waiting line management, service control and service quality improvement.
Note: Credit will be granted for only one of SMGT 416, HSM 416.
Prerequisite(s):
• All of COM 315, COM 316, COM 321, COM 322, COM 331, COM 341, COM 351, COM 361, COM 362, COM 371; or
• permission of the school.
Corequisite(s): SMGT 415 and SMGT 417.

SMGT 417 - Units: 1.5 - Hours: 3-0-0
Formerly: HSM 417
Service Human Resource Management
In services companies, the interaction between the customer and the employee is both an opportunity and a challenge for management. An examination of the unique aspects of building an excellent human resource management system in hospitality and services. Topics include: the role of the servant leader, creating a service culture, attracting, developing and retaining high performers, reward systems in service organizations and designing systems to support service delivery.
Note: Credit will be granted for only one of SMGT 417, HSM 417.
Prerequisite(s):
• All of COM 315, COM 316, COM 321, COM 322, COM 331, COM 341, COM 351, COM 361, COM 362, COM 371; or
• permission of the school.
Corequisite(s): SMGT 415 and SMGT 416.

SOCI 100B - Units: 1.5 - Hours: 3-0-1
Introduction to Sociology: Understanding Contemporary Society
Introduction to the study of contemporary society through the sociological lens. Topics may include gender, families, religion, ethnicity, education, social media, social determinants of health and environmental sociology.
Note: Credit will be granted for only one of SOCI 100B, SOCI 100.
Recommendation(s): Recommend for students to first enrol in SOCI 100A, although SOCI 100A and SOCI 100B may be taken in either order or concurrently.

SOCI 103 - Units: 1.5 - Hours: 3-0-0
Canadian Society
The origins, development, and structure of Canadian society analyzed through a sociological lens. Examines topics such as immigration, nation building, ethnic diversification, language, war and peacekeeping, work, education, Canadian identity, and citizenship rights.
Note: Credit will be granted for only one of SOCI 103, SOCI 200.

SOCI 202 - Units: 1.5 - Hours: 3-0-0
Constructing Social Problems
Examines the social construction of social problems. Topics may include terrorism, breast cancer awareness, halloween sadism, surveillance, moral panics, public shaming, mass and social media framing, infectious disease, homelessness, crime, drug use, police violence, and debates about childhood vaccines.
Recommendation(s): Recommended prior to SOCI 206, SOCI 307, SOCI 313, and SOCI 401.

SOCI 204 - Units: 1.5 - Hours: 3-0-0
Formerly: SOCI 304
Self, Identity and Society
An exploration of the sociology of social interaction, with an emphasis on understanding the way self-identity is formed in social context and social activity. Explores the ways in which society, culture, inequality, and history affect how individuals define their experiences and themselves.
Note: Credit will be granted for only one of SOCI 204, SOCI 304.

SOCI 205 - Units: 1.5 - Hours: 3-0-0
Formerly: SOCI 305A
Sociological Perspectives on Family Relationships
Examines theory and research on the dynamics of family relationships over the life course. Topics include the formation of intimate relationships; becoming a parent; parent-child relationships and their influence on children’s social and emotional development; and the ways in which families respond to tensions and conflict within relationships, focusing on the effects of separation and divorce and adult children’s return to the “empty nest”.
Note: Credit will be granted for only one of SOCI 205, SOCI 305, SOCI 305A.
Recommendation(s): Recommended prior to SOCI 305B, SOCI 343, and SOCI 433.
SOCI 206  Units:  1.5  Hours:  3-0-0
Formerly: SOCI 306
Crime and Deviance
Introduction to the sociology of crime and deviance. Considers strategies on how to communicate criminological research to the general public. Topics may include homicide, serial killers, animal cruelty, cybercrimes, aboriginal justice, environmental pollution, street crimes and victimology.
Note: Credit will be granted for only one of SOCI 206, SOCI 301, SOCI 306.

SOCI 209  Units:  1.5  Hours:  3-0-0
SOCI 300, SOCI 308.

SOCI 210  Units:  1.5  Hours:  3-0-0
Classical Social Theorizing
An examination of the emergence of Sociology, emphasizing the founding ideas and theorists. Outlines the main ideas, concepts, and schools of thought that compose the history of the discipline, as well as the social and historical context from which it developed. In this course, emphasis is placed on developing students’ abilities to theorize the social world.
Note: Credit will be granted for only one of SOCI 210, SOCI 209, SOCI 300, SOCI 308.
Pre- or Corequisite(s): SOCI 100A and SOCI 100B.

SOCI 211  Units:  1.5  Hours:  3-0-0
Introduction to Sociological Research
An introduction to the key concepts, strategies, and techniques of social research, including conceptualization and measurement, research design, sampling, the collection and analysis of quantitative and qualitative data.
Note: Credit will be granted for only one of SOCI 211, SOCI 209, SOCI 375, SOCI 375A, SOCI 375B.
Pre- or Corequisite(s): SOCI 100A and SOCI 100B.

SOCI 215  Units:  1.5  Hours:  3-0-0
Class and Social Inequality
Introductory examination of the shifting patterns, determinants, and consequences of social inequality, with an emphasis on class, gender, race and ethnicity, region, and domination and resistance. Surveys key theories of inequality in global and comparative perspective.
Recommendation(s): Recommended prior to SOCI 331 and SOCI 436.

SOCI 220  Units:  1.5  Hours:  3-0-0
Formerly: SOCI 320
Media and Contemporary Society
Explores the relationship between information technology, society and the individual. Emphasizes how mass communications, popular culture, and social media platforms (e.g. Facebook, Google, Instagram, Twitter, Snapchat, Tinder, Pinterest, LinkedIn, YouTube, etc.) influence our relationships with friends, family members, society, and ourselves. Examines various collectivities including virtual communities and social networks and how they shape contemporary relationships.
Note: Credit will be granted for only one of SOCI 220, SOCI 320, SOCI 390 (if taken in the same topic).

SOCI 271  Units:  1.5  Hours:  3-1-0
Introduction to Social Statistics
Descriptive statistics, probability distributions, statistical inference, including estimation and significance tests, and an introduction to bivariate analysis. Computer assisted analysis of sociological data.
Notes:
• Credit will be granted for only one of SOCI 271, SOCI 371, SOCI 371A.
• See "Credit Limit - Beginning Level Statistics Courses".
Pre- or Corequisite(s): SOCI 100A and SOCI 100B.

SOCI 281  Units:  1.5  Hours:  3-0-0
Formerly: SOCI 381
Sociology of Genders
Introduction to sociological perspectives on genders. Examines both the gendering of everyday social interactions and the role of genders in structuring major social institutions. Topics may include the relation of genders to sexuality, bodies, work, race and ethnicity, sports, media, education, politics, violence, and/or other ways of organizing social interactions. Intersections between genders and other forms of social inequalities will be considered.
Note: Credit will be granted for only one of SOCI 281, SOCI 381.
Recommendation(s): Recommended prior to SOCI 382, SOCI 389, and SOCI 435.

SOCI 285  Units:  1.5  Hours:  3-0-0
Health over the Life Course
Notions of health, wellness and who is deserving of health care are socially-constructed concepts. An examination of some of the main sociological ways of conceptualizing and studying health across the life course, leading into the social factors and social institutions that shape individual health trajectories. Concludes with a discussion of interventions to promote equitable health across the life course.
Recommendation(s): Recommended prior to SOCI 327, SOCI 385, and SOCI 432.

SOCI 305B  Units:  1.5  Hours:  3-0-0
Families and Social Change
Considers the relationship between families and society, looking at continuity and change in contemporary Canadian family forms in the context of other cultures and periods. Emphasizes how social, economic and demographic changes in Canadian society have reshaped family forms and practices over the past century; discusses current family trends and evaluates their social policy implications.
Note: Credit will be granted for only one of SOCI 305B, SOCI 305.
Recommendation(s): SOCI 205 recommended prior to SOCI 305B.
Recommended prior to SOCI 443.

SOCI 307  Units:  1.5  Hours:  3-0-0
Regulation and Social Control
Examines forms of regulation and social control. Emphasizes how power operates in organizations and how regulation and control happens in everyday life. Topics may include surveillance, crime, policing, morality, bureaucracy, ethics, whistle-blowing and corruption.
Note: Credit will be granted for only one of SOCI 307, SOCI 301.
Recommendation(s): SOCI 202 recommended prior to SOCI 307. Recommended prior to SOCI 434.

SOCI 309  Units:  1.5  Hours:  3-0-0
Contemporary Social Theorizing
An examination of major modes of theorizing that are influential in contemporary sociology. Covers important developments in social theory over the past 50 years and concepts such as power, ideology, rationality, social structure, agency, freedom, identity, gender, postcolonialism, and globalization. Emphasis is placed on developing students’ abilities to theorize contemporary social issues.
Prerequisite(s): SOCI 210.

SOCI 310  Units:  1.5  Hours:  3-0-0
Religion in Society
Cultural, social, and institutional impacts of religion in modern societies. Foundational and classical approaches to religion are considered, along with contemporary phenomena pertaining to the social role of religious institutions and beliefs. These may include millenarian and evangelical movements, denominational religion in the Anglo-American context, popular religious movements, liberation theology, cults, and the process of secularization.

SOCI 312  Units:  1.5  Hours:  3-0-0
White-Collar Crime
An examination of the neglected problem of white-collar crime. Topics include corporate crime, financial fraud, occupational crime, cybercrime, worker safety, environmental crime, consumer victimization, professional misconduct, and the corruption of science.
Recommendation(s): SOCI 100A and SOCI 100B recommended prior to SOCI 312.

SOCI 313  Units:  1.5  Hours:  3-0-0
Formerly: SOCI 401
Sociology of Law
The interrelationships of law and other social institutions, socio-economic origins and class interests of legal functionaries, and law as social conflict are analyzed in Canadian and cross-cultural contexts.
Note: Credit will be granted for only one of SOCI 313, SOCI 401.
Recommendation(s): SOCI 202, and SOCI 306 or SOCI 307 recommended prior to SOCI 313.

SOCI 316  Units:  1.5  Hours:  3-0-0
Social Movements
A study of social movements in the making of modernity and its ongoing transformations. Exploration of how movements arise and are maintained, of why certain kinds of movements emerge in specific contexts, and of what impact they have upon socio-political relations and cultural discourses, both globally and locally. Specific social movements such as feminism, ecology, gay and lesbian liberation, Aboriginal activism, the peace movement, labour, socialism, and religious fundamentalism will be examined.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 318</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Social Change</td>
</tr>
<tr>
<td>SOCI 318</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Inquiry into the social structures, cultural practices, and political economic transitions associated with social change, emphasizing and implications. Topics include reform and revolution, globalization “from above” and “from below”, and changing conceptions of social justice and community.</td>
</tr>
<tr>
<td>SOCI 318</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Note: Credit will be granted for only one of SOCI 318, SOCI 418.</td>
</tr>
<tr>
<td>SOCI 321</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Work, Employment and Society</td>
</tr>
<tr>
<td>SOCI 321</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Explores the sociology of work and occupations, followed by a historical overview of work in human societies, methods of training people for work, and the sociological study of the world of work in the 21st century. Also examines current employment patterns and trends, the nature of labor markets, the gendered arrangements of work, the organization and management of work, the conditions of unions and industrial relations, and the personal context of work.</td>
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<tr>
<td>SOCI 326</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Social Networks</td>
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<tr>
<td>SOCI 326</td>
<td>1.5</td>
<td>3-0-0</td>
<td>The major models, methods, and findings of network analysis. The following areas may be discussed: friendship, social influence and status, small groups, communication and diffusion of information, corporate and community organization, social and economic mobility, and computer analysis of network data.</td>
</tr>
<tr>
<td>SOCI 327</td>
<td>1.5</td>
<td>3-0-0</td>
<td>International Perspectives on Inequities in Health and Healthcare</td>
</tr>
<tr>
<td>SOCI 327</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Offers a critical appraisal of the institutional economic, and political determinants of health and illness from a cross-national perspective. Explores the unequal distribution of diseases and injuries between and within countries in the context of poverty and economic marginalization, and draws on case studies from around the world to examine the consequences of health inequity.</td>
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<tr>
<td>SOCI 331</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Politics and Society</td>
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<tr>
<td>SOCI 331</td>
<td>1.5</td>
<td>3-0-0</td>
<td>An introduction to key topics such as parties and movements, changing electoral arrangements, welfare states, reform and revolution, political violence and terrorism, policymaking, state formation, nationalism and imperialism.</td>
</tr>
<tr>
<td>SOCI 335</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Racialization and Ethnicity</td>
</tr>
<tr>
<td>SOCI 335</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Examines theory and research in the area of ethnic and race relations. Topics include: French-English dualism, demography of ethnic and racial groups, ethnic and racial inequality, international migration, identity and multiculturalism, racism, Indigenous and non-Indigenous relations, and ethnic conflict.</td>
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<tr>
<td>SOCI 335</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Recommendation(s): SOCI 215 recommended prior to SOCI 335.</td>
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<tr>
<td>SOCI 345</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Sociology of Mental Health</td>
</tr>
<tr>
<td>SOCI 345</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Topics may include: theoretical foundations of the sociology of mental health; the social conditions that influence mental well-being; the experience and social meaning of mental illness and its treatment; the social construction of mental disorders; and the processes of institutionalization and deinstitutionalization.</td>
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<tr>
<td>SOCI 345</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Recommendation(s): SOCI 285 recommended prior to SOCI 345.</td>
</tr>
<tr>
<td>SOCI 355</td>
<td>1.5</td>
<td>3-0-0</td>
<td>The Corporation, Capitalism, and Globalization</td>
</tr>
<tr>
<td>SOCI 355</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Drawing on world systems, Marxist, network, and postcolonial perspectives, the course examines capitalism and the contradictions and conflicts that shape it. Topics include: the role of transnational corporations and financial markets; the development of transnational classes, governance and the culture industry; and social alternatives ranging from localization to post-capitalism on a global scale.</td>
</tr>
<tr>
<td>SOCI 355</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Recommendation(s): SOCI 215 recommended prior to SOCI 355.</td>
</tr>
<tr>
<td>SOCI 355</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Strongly recommended prior to SOCI 419 or SOCI 445.</td>
</tr>
<tr>
<td>SOCI 382</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Sociology of Sexualities</td>
</tr>
<tr>
<td>SOCI 382</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Examination of sociological, theoretical and historical perspectives on sexualities. Topics may include medicalization of sexualities; research methods in the study of sexualities; sexualities of children and teens; heterosexualities; lesbian, gay and queer sexualities; bisexuality, asexuality, pansexualities, and polyamory; trans sexualities; sexually transmitted infections; consent; sex for sale; sex positivity. Intersections between sexualities and other forms of social inequalities will be considered.</td>
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<tr>
<td>SOCI 382</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Recommendation(s): SOCI 281 recommended prior to SOCI 382.</td>
</tr>
<tr>
<td>SOCI 383</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Feminisms in Theory and Practice</td>
</tr>
<tr>
<td>SOCI 383</td>
<td>1.5</td>
<td>3-0-0</td>
<td>An examination of feminist thinking through a contemporary sociological lens. Topics may include food and the politics of fat, prostitution, militarism, troubling the boundaries between nature and culture, Indigenous women’s organizing around climate change, ecological feminisms, feminist economics, materialism, epistemologies and ontologies. Contemporary feminisms challenge social convention.</td>
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<tr>
<td>SOCI 383</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Prerequisite(s):</td>
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<tr>
<td>SOCI 383</td>
<td>1.5</td>
<td>3-0-0</td>
<td>• 1.5 units of 300- or 400-level SOCI course; or</td>
</tr>
<tr>
<td>SOCI 383</td>
<td>1.5</td>
<td>3-0-0</td>
<td>• permission of the department.</td>
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<tr>
<td>SOCI 388</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Sociology of Aging</td>
</tr>
<tr>
<td>SOCI 388</td>
<td>1.5</td>
<td>3-0-0</td>
<td>An overview of the sociology of aging, including theoretical perspectives, methodological challenges, and substantive topic areas such as the gendered nature of aging, cultural comparisons, families and intergenerational relations, and health and healthcare.</td>
</tr>
<tr>
<td>SOCI 388</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Recommendation(s): SOCI 285 recommended prior to SOCI 385.</td>
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<tr>
<td>SOCI 388</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Strongly recommended prior to SOCI 445.</td>
</tr>
<tr>
<td>SOCI 389</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Sociology of Food and Eating</td>
</tr>
<tr>
<td>SOCI 389</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Examines what you eat and where it comes from through various lenses including gender, justice, power, animal rights and ecology. The examination moves beyond criticism and explores progressive social movements that are changing how we see food.</td>
</tr>
<tr>
<td>SOCI 389</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Note: Credit will be granted for only one of SOCI 388, SOCI 390 (if taken in the same topic).</td>
</tr>
<tr>
<td>SOCI 389</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Recommendation(s): SOCI 215 recommended prior to SOCI 388.</td>
</tr>
<tr>
<td>SOCI 399</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Death and Dying</td>
</tr>
<tr>
<td>SOCI 399</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Sociological approaches to death and dying, emphasizing cross-cultural differences in the construction of the meaning of death and dying, the rituals accompanying these processes, and their legal, economic and political aspects. The course also focuses on how death is accounted for and processed by state and health agencies.</td>
</tr>
<tr>
<td>SOCI 399</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Note: Credit will be granted for only one of SOCI 389, SOCI 488.</td>
</tr>
<tr>
<td>SOCI 399</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Recommendation(s): SOCI 281 recommended prior to SOCI 389.</td>
</tr>
</tbody>
</table>
SOCI 390 - SOCI 490

SOCI 390  Units: 1.5  Hours: 3-0-0*
Special Topics in Sociology
Presentation of current interests of various faculty members.
* Contact hours may vary depending on the topic.
Notes:
• May be taken more than once for credit to a maximum of 3 units.
• Students interested in this course should inquire at registration when the course is to be offered and what the substantive presentation will involve.

SOCI 431  Units: 1.5  Hours: 3-0-0
Issues in Social Theorizing
In-depth study of issues in social theory. Topics may include particular theories, theorists, current issues and debates.
Notes:
• Credit will be granted for only one of SOCI 431, SOCI 402, SOCI 412, SOCI 481.
• May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• SOCI 210; and
• minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.
Recommendation(s): SOCI 309 recommended prior to SOCI 431.

SOCI 432  Units: 1.5  Hours: 3-0-0
Issues in Health and Aging
In-depth examination of contemporary issues relating to the sociology of health and aging. Topics may include: widowhood, caregiving and social support, housing and long term care, dementia and personhood, intergenerational relationships, ethnicity and immigration, indigenous, elder abuse, and technology.
Notes:
• Credit will be granted for only one of SOCI 432, SOCI 445.
• May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.
Recommendation(s): SOCI 385, and SOCI 345 or SOCI 385 recommended prior to SOCI 432.

SOCI 433  Units: 1.5  Hours: 3-0-0
Issues in Demography and Families
In-depth examination of contemporary population trends and their effects on human well-being, issues relating to families, and social policy responses. Topics may include: population growth, sustainable development, and the environment; population aging, dating and mating, marriage, cohabitation and divorce; new reproductive technologies; parenting, work and family life, stress and violence, population and immigration, indigenous families, urbanization and human crowding.
Notes:
• Credit will be granted for only one of SOCI 433, SOCI 340, SOCI 342, SOCI 443.
• May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.
Recommendation(s): SOCI 205, and SOCI 305B or SOCI 343 recommended prior to SOCI 433.

SOCI 434  Units: 1.5  Hours: 3-0-0
Issues in Deviance, Crime, Law and Social Control
Topics may include: community service and/or experiential learning opportunities.
Notes:
• Credit will be granted for only one of SOCI 434, SOCI 401.
• May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.
Recommendation(s): SOCI 202, and SOCI 206 and/or SOCI 307 recommended prior to SOCI 434.

SOCI 435  Units: 1.5  Hours: 3-0-0
Issues in Gender, Sexuality and Trans Communities
Note: May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.
Recommendation(s): SOCI 281 and/or SOCI 382 recommended prior to SOCI 435.

SOCI 436  Units: 1.5  Hours: 3-0-0
Issues in Sociology and Social Justice
In-depth examination of sociology's relationship with social control, public policy, social reform and social activism. Topics may include community service and/or experiential learning opportunities.
Notes:
• Credit will be granted for only one of SOCI 436, SOCI 450.
• May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.
Recommendation(s): SOCI 215, and one of SOCI 315, SOCI 331, SOCI 335, SOCI 355 recommended prior to SOCI 436.

SOCI 437  Units: 1.5  Hours: 3-0-0
Issues in Environmental Sociology and Climate Change
In-depth examination of sociological explanations of the causes and social consequences of environmental degradation and climate change with a focus on solutions and alternatives. Topics may include: social movements around environmental justice, climate change and climate justice, alternative and diverse economies including food sovereignty, "fair trade" and ethical consumption, and ecological feminisms.
Notes:
• Credit will be granted for only one of SOCI 437, SOCI 465.
• May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.

SOCI 438  Units: 1.5  Hours: 3-0-0
Issues in Contemporary Sociology
Note: May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.

SOCI 471  Units: 1.5  Hours: 3-1-0
Formerly: SOCI 371B
Intermediate Social Statistics
An introduction to multivariate relationships, including multiple regression and correlation, analysis of variance and covariance and other topics of the general linear model. Computer-assisted analysis of sociological data.
Notes:
• Credit will be granted for only one of SOCI 471, SOCI 371B, SOCI 372.
• If space permits, other students may be permitted to register.
Prerequisite(s):
• SOCI 271; and
• Declared Honours, Major, or General Program in Sociology, or admission to MA program in Leisure Service Administration; or
• permission of the department.

SOCI 490  Units: 1.5-3.0
Directed Studies
May be submitted for an elective course in Sociology in the fourth year of the program with permission of the department.
Notes:
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
• Pro Forma required.
SOCI 499 - SOCW 350A

SOCW 304 - Units: 4.5 - Hours: 1.5-0-0
Social Work Practicum I
Students practice social work under supervision in an agency setting. They apply, integrate and translate theories into practice, and experience the economic, political and policy constraints on practice. The practicum is 350 hours.

Notes:
• Credit will be granted for only one of SOCW 304, SOCW 304A.
• Students must submit an application for practicum approximately two terms in advance of registration in order to ensure adequate time is available for planning and organizing their practicum (see Social Work web site for dates).
• Social Work accreditation standards require that students spend the hours noted above in practice. Students may be required to complete training prior or during their practicum. Training can only be counted as practicum hours in exceptional circumstances and with the permission of the faculty liaison.
• A concurrent seminar or approved equivalent will be required.
Prerequisite(s): SOCW 311 and SOCW 312.
Grading: INP, COM, N, F.
SOCW 304A - Units: 4.5 - Hours: 3-0-0
Social Work Practicum by Prior Learning Assessment (PLA)
Students with significant work or volunteer experience in social work may complete the first BSW practicum by Prior Learning Assessment. Students present evidence of their prior learning and practice which specifically demonstrates their anti-oppressive practice and their acquisition of the skills and knowledge required in 304.

Notes:
• Credit will be granted for only one of SOCW 304A, SOCW 304.
• Students must submit an application for PLA approximately two terms in advance of registration in order to ensure adequate time is available for review (see Social Work web site for dates).
Prerequisite(s): SOCW 311 and SOCW 312.
Grading: COM, N, F.
SOCW 311 - Units: 1.5 - Hours: 3-0-0
Understanding Oppression
Examines key concepts such as 'whiteness', 'oppression', 'marginalization', 'difference', 'rank' and 'power' that animate the practice of social work within a difference-centred, social justice framework. Critical theoretical and conceptual insights from frameworks such as Indigenous, feminist, anti-racist, queer, and postmodern theories are explored in order to arrive at a nuanced understanding of critical social work.

Note: Credit will be granted for only one of SOCW 311, SOCW 323.

SOCW 312 - Units: 1.5 - Hours: 3-0-0
Collaborative Conversations: Working within Communities
Focuses on developing social work practice skills with individuals and communities in ways that are both difference-centred and collaborative in nature. Students critically analyze and develop their own individual practice skills in various community contexts, within a social justice framework. Examples of these include social service agencies and their clientele, the classroom, and grass roots organizations. Students examine ways to further anti-oppressive skills that are effective, participatory and collaborative.

Notes:
• Credit will be granted for only one of SOCW 312, SOCW 323.
• On-campus component required.
Pre- or Corequisite(s): SOCW 311.
SOCW 319 - Units: 1.5 - Hours: 3-0-0
Research for Social Change
An introduction to research as social justice work. Students learn about a range of qualitative and quantitative methodologies, with an emphasis on Indigenous, critical and anti-oppressive approaches. Students engage in critical analysis of what counts as knowledge, develop alternative ways of understanding social issues, redefine the relationship between researchers and participants, and develop skills in data collection, data analysis and proposal writing.

Note: Credit will be granted for only one of SOCW 319, SOCW 318.
Pre- or Corequisite(s): SOCW 311 and SOCW 312.
SOCW 350A - Units: 1.5 - Hours: 3-0-0
Social Work, Social Justice and the Law
Provides an overview of critical perspectives on social justice, law, the legal system, and the legal processes that impact on social work practice. Students critically examine and self-reflect on the interplay between marginalization and structural inequalities and law. Areas examined may include child welfare, mental health, human rights, youth justice, poverty and restorative practices.

Notes:
• Credit will be granted for only one of SOCW 350A, SOCW 350, CYC 350A.
• Students not majoring in Social Work but in their third or fourth year may request permission to register in the course.
Prerequisite(s):
• Admission to Bachelor of Social Work program; or
• permission of the school.
### SOCW 350B - SOCW 404

**SOCW 350B**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Legal and Social Justice Skills for Social Workers**  
Focuses on the development of legal skills in an anti-oppressive framework. Emphasizes a critical analysis of the skills necessary to practice in statutory settings such as child welfare, and may include dispute resolution, advocacy, mediation, investigation, evidence-giving and report writing.  
**Notes:**  
- Credit will be granted for only one of SOCW 350B, SOCW 350, CYC 350B.  
- Students not majoring in Social Work but in their third or fourth year may request permission to register in the course.  
**Prerequisite(s):**  
- SOCW 350A; and  
- admission to Bachelor of Social Work program; or  
- permission of the school.

**SOCW 354**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Indigenous Perspectives on Practice Issues**  
Critically examines the historical process of colonization in Canada, the resulting barriers embedded in policy and practice, and alternative ways of viewing the social-psychological position of Indigenous peoples in Canadian Society. Contemporary issues and the movement toward self-determination are discussed in relation to social work theory and practice.  
**Note:** Credit will be granted for only one of SOCW 354, SOCW 454.  
**Pre- or Corequisite(s):** SOCW 311 and SOCW 312.

**SOCW 356**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Human Development and the Social Environment in a Global Context**  
An overview of human development within a global context with a focus on social justice and diversity related to gender, race, class, ethnicity, culture, sexual orientation and disability. In particular, focuses on how the cultural, global, spiritual and natural worlds people inhabit impacts on their understanding of lifespan development and the implications of this for social work practice.  
**Notes:**  
- Students not majoring in Social Work but in their third or fourth year may request permission to register in the course.  
- This course meets the Child Welfare Specialization requirements for a development course.  
**Prerequisite(s):**  
- Admission to Bachelor of Social Work program; or  
- permission of the school.

**SOCW 390**  
**Units:** 1.5 or 3.0  
**Directed Studies**  
Students must consult with the Director prior to registration. The intent is to allow students the opportunity to concentrate in a particular field of social welfare such as corrections, gerontology or mental health.

**SOCW 391**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Indigenous Approaches to Healing and Helping**  
Through direct interaction with Indigenous elders, political leaders and human service workers, students explore traditional and contemporary approaches used by Indigenous peoples to help and heal in their communities. Students are challenged to integrate these approaches into their own lives and social work practices.  
**Note:** Limited to Indigenous students of North America or with permission of the department.  
**Pre- or Corequisite(s):** SOCW 311 and SOCW 312.

**SOCW 400**  
**Units:** 1.5  
**Hours:** 3-0-0  
**Introduction to Social Work in the Health Care Sector**  
Examines the knowledge and skills required for social workers to be effective advocates while carrying out a range of responsibilities in the health sector within a practice framework that focuses on the social determinants of health. The challenges and opportunities of the cultural and organizational contexts of practice are an important focus while examining inter-professional practice. Particular aspects of practice such as appropriate documentation, informed consent and community development are included.  
**Prerequisite(s):** SOCW 311 and SOCW 312.

**SOCW 402**  
**Units:** 4.5  
**Hours:** 1.5-0-0  
**Social Work Practicum II**  
Students have a further opportunity to develop, refine and apply generalist practice knowledge, skills, values and ethics under supervision in an agency setting. Generalist practice can include individual family, group and community work, organizational development and policy change. The practicum is 350 hours.  
**Notes:**  
- Credit will be granted for only one of SOCW 402, SOCW 402A, SOCW 404.  
- Students must submit an application for practicum approximately two terms in advance of registration in order to ensure adequate time is available for planning and organizing their practicum (see Social Work web site for dates).  
- A concurrent seminar or approved equivalent will be required.  
- Students completing a 3.0 unit SOCW 304 practicum must complete a 420 hour SOCW 404.  
- Social Work accreditation standards require that students spend the hours noted above in practice. Students may be required to complete training prior or during their practicum. Training can only be counted as practicum hours in exceptional circumstances and with the permission of the faculty liaison.  
- Students may be required to complete a Ministry of Children and Family Development or Indigenous Delegated Authority Partial Delegation Exam prior to or during their practicum placement. Non-BC students may be required to meet the requirements applicable in other jurisdictions.  
**Prerequisite(s):**  
- SOCW 304 or 304A; and  
- all of SOCW 319, SOCW 350A, SOCW 350B, SOCW 354, SOCW 356, SOCW 475; and  
- one of SOCW 469 or SOCW 471 for students in the Child Welfare Specialization; or  
**Pre- or Corequisite(s):**  
- For students in the Child Welfare Specialization:  
  - All of SOCW 413, SOCW 451, SOCW 476.  
  - For students in the Indigenous Child Welfare Specialization:  
  - SOCW 413 and SOCW 451.  
**Grading:** INP, COM, N, F.

**SOCW 404**  
**Units:** 4.5  
**Hours:** 1.5-0-0  
**Child Welfare Specialization Child Protection Practicum**  
Students will have further opportunity to develop, refine and apply generalist practice knowledge, skills, values and ethics. Under supervision in a mandated child protection setting, students will apply child welfare law and policy to direct practice in child protection investigation, interviewing, assessment and court procedures; guardianship and care plans; and various aspects of case management. The practicum is 350 hours.  
**Notes:**  
- Credit will be granted for only one of SOCW 404, SOCW 404A, SOCW 402.  
- Students must submit an application for practicum approximately two terms in advance of registration in order to ensure adequate time is available for planning and organizing their practicum (see Social Work web site for dates).  
- A concurrent seminar or approved equivalent will be required.  
- Students completing a 3.0 unit SOCW 304 practicum must complete a 420 hour SOCW 404.  
- Social Work accreditation standards require that students spend the hours noted above in practice. Students may be required to complete training prior or during their practicum. Training can only be counted as practicum hours in exceptional circumstances and with the permission of the faculty liaison.  
- Students may be required to complete a Ministry of Children and Family Development or Indigenous Delegated Authority Partial Delegation Exam prior to or during their practicum placement. Non-BC students may be required to meet the requirements applicable in other jurisdictions.  
**Prerequisite(s):**  
- SOCW 304 or 304A; and  
- all of SOCW 319, SOCW 350A, SOCW 350B, SOCW 354, SOCW 356, SOCW 475; and  
- one of SOCW 469 or SOCW 471 for students in the Child Welfare Specialization; or  
**Pre- or Corequisite(s):**  
- For students in the Child Welfare Specialization:  
  - All of SOCW 413, SOCW 451, SOCW 476.  
  - For students in the Indigenous Child Welfare Specialization:  
  - SOCW 413 and SOCW 451.  
**Grading:** INP, COM, N, F.
SOCW 404A  
**Units:** 4.5  
**Hours:** 1.5-0-0  
**Child Welfare Specialization Child Welfare Practicum**  
Students have a further opportunity to develop, refine and apply generalist practice knowledge, skills, values and ethics while working under supervision in a child and/or youth and/or family serving agency with those who are affected by child welfare law, policy and practice. The practicum is 350 hours.

**Notes:**
- Credit will be granted for only one of SOCW 404A, SOCW 404, SOCW 460.
- Students must submit an application for practicum approximately two terms in advance of registration in order to ensure adequate time is available for planning and organizing their practicum (see Social Work web site for dates).
- Students completing a 3.0 unit SOCW 304 practicum must complete a 420 hour SOCW 404A.
- Social Work accreditation standards require that students spend the hours noted above in practice. Students may be required to complete training prior or during their practicum. Training can only be counted as practicum hours in exceptional circumstances and with the permission of the faculty liaison.
- A concurrent seminar or approved equivalent will be required.

**Prerequisite(s):**
- SOCW 304 or 304A, and
- all of SOCW 319, SOCW 350A, SOCW 350B, SOCW 354, SOCW 356, SOCW 475, and
- one of SOCW 469 or SOCW 471 for students in the Child Welfare
  - Specialization; or
  - SOCW 491 and SOCW 492 for students in the Indigenous Child Welfare
  - Specialization.

**Pre- or Corequisite(s):**
- For students in the Child Welfare Specialization:
  - All of SOCW 413, SOCW 451, SOCW 476.
- For students in the Indigenous Child Welfare Specialization:
  - SOCW 413 and SOCW 451.

**Grading:** INP, COM, NF.

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**SOCW 433  Units:** 1.5  
**Hours:** 3-0-0  
**Working with Trauma**  
Examines current theories and practices regarding trauma work. This includes the neurobiological impact as well as the intrapsychic, interpersonal, and the sociopolitical/cultural dimensions of traumatic experiences. Emphasis is placed on concrete skills and strategies that apply to a wide variety of contexts. As well, students explore how to reduce the prevalence of secondary traumatization on themselves, colleagues, agencies and communities.

**Notes:**
- Credit will be granted for only one of SOCW 433, SOCW 460 (if taken in the same topic), SOCW 533.

**Prerequisite(s):**
- SOCW 311 and SOCW 312.

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**SOCW 435  Units:** 1.5  
**Hours:** 3-0-0  
**Critical Perspectives in Mental Health Practice**  
Examines the concepts of mental health and mental illness from a critical perspective. Provides an overview of key areas in knowledge and theory, as well as practical information about how to work within various service contexts. Particular attention is given to the historical, socio-cultural, and political connections to mental illness and addictions - and this information is presented in a way that reflects a diversity of paradigms and standpoints.

**Prerequisite(s):**
- SOCW 311 and SOCW 312.

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**SOCW 451  Units:** 1.5  
**Hours:** 3-0-0  
**Indigenous Policy Analysis in Social Work**  
Builds on the structural theories and perspectives of social work practice introduced in 354. Focuses on in-depth exploration and critical analysis of past and present policies of Canadian governments that affect the lives of Indigenous peoples. Contemporary responses and initiatives of Indigenous peoples through their own policies and practices will also be discussed.

**Prerequisite(s):**
- SOCW 354.

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**SOCW 452  Units:** 1.5  
**Hours:** 3-0-0  
**Teaching and Learning for Social Change**  
What does it mean to think of social workers as educators for social justice? Students will develop a conceptual and experiential understanding of education, teaching and learning. Knowledge and power will be explored from multiple perspectives, including critical, Indigenous, and anti-oppressive perspectives. Opportunities for hands-on application will be an integral part of the course.

**Notes:**
- Students not majoring in Social Work but in their third- or fourth year may request permission to register in the course.

**Prerequisite(s):**
- Admission to Bachelor of Social Work program; or
- permission of the school.

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**SOCW 460  Units:** 1.5 or 3.0  
**Hours:** 3-0-0  
**Special Topics in Social Work and Social Welfare**  
Special issues in social welfare and approaches to social work practice.

**Notes:**
- May be taken more than once for credit to a maximum of 3 units.
- Offered as resources permit.

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**SOCW 465  Units:** 1.5  
**Hours:** 3-0-0  
**Interdisciplinary Practice with Children and Families**  
Opportunities for applying the skills, knowledge and beliefs essential for effective interdisciplinary practice with children and families. Explores the rationale for and a critical analysis of interdisciplinary practice. The contributions of different disciplines to addressing issues in child and family work will be featured.

**Notes:**
- Credit will be granted for only one of SOCW 465, HSD 465.
- Students not majoring in Social Work but in their third- or fourth year may request permission to register in the course.

**Prerequisite(s):**
- Admission to Bachelor of Social Work program; or
- permission of the school.

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**SOCW 469  Units:** 1.5  
**Hours:** 3-0-0  
**Re-defining Abilities in the Context of Theory and Practice**  
A critical analysis of theory, policy and practice in the area of disability, focusing on issues affecting children, youth and adults with disabilities. Examination of current issues in human rights, ethics and attitudes toward disability, highlighting the skills and knowledge required for anti-ablist practice. Examination of approaches to the planning and delivery of services, emphasizing those that facilitate consumer choice and decision making.

**Notes:**
- Credit will be granted for only one of SOCW 469, HSD 464.
- Students not majoring in Social Work but in their third- or fourth year may request permission to register in the course.

**Prerequisite(s):**
- Admission to Bachelor of Social Work program; or
- permission of the school.

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**SOCW 471  Units:** 1.5  
**Hours:** 3-0-0  
**Addictions in Society: Theory, Practice and Policy**  
Critically examines the theoretical perspectives on practice, programs, and policy in the field of addictions. Addiction and recovery will be examined as transactional processes that take place within larger socio-cultural contexts. Places particular emphasis on the historical, social, geographic, and political contexts of addictions among women, youth, seniors, Indigenous peoples, and members of other marginalized social groups. Examines issues in the regulation and control of substances and relevant trends in policy and program development. Students are expected to use critical reflection to articulate their own perspectives on addiction.

**Notes:**
- Credit will be granted for only one of SOCW 471, SOCW 479.
- Students not majoring in Social Work but in their third- or fourth year may request permission to register in the course.

**Prerequisite(s):**
- Admission to Bachelor of Social Work program; or
- permission of the school.
### SOCW 475 - Units: 1.5 - Hours: 3-0-0
**Child Welfare Practice**
Explores all aspects of child welfare practice with a particular focus on balancing the powers of authority and helping approaches, identifying and resolving ethical dilemmas, and developing community-based approaches to serving families and children. Students explore their own conceptual and philosophical orientation to child welfare practice.
**Prerequisite(s):** SOCW 311 and SOCW 312.

### SOCW 476 - Units: 1.5 - Hours: 3-0-0
**Family and Child Welfare Policy**
Critically examines assumptions in family and child welfare policy including notions of family, substitute care, conceptions about violence and neglect, how family and child welfare policy is developed and administered and the political role of social work.
**Prerequisite(s):** SOCW 311 and SOCW 312.

### SOCW 490 - Units: 1.5 or 3.0
**Directed Studies**
Students must consult with the Director prior to registration. The intent is to allow students the opportunity to concentrate in a particular field of social welfare such as corrections, gerontology or mental health.

### SOCW 491 - Units: 1.5 - Hours: 3-0-0
**Integration of Indigenous Approaches to Healing and Helping**
Students will continue to explore traditional and contemporary approaches to helping and healing in their communities that they began in 391. Indigenous elders, political leaders and human service workers will again play a central role in this course. Students will also be challenged to critically and holistically integrate these approaches into an examination, articulation and development of their own ethical perspectives.
**Note:** Limited to Indigenous students of North America or with permission of the department.
**Prerequisite(s):** SOCW 391.

### SOCW 492 - Units: 1.5 - Hours: 3-0-0
**Protecting Indigenous Children**
An opportunity to explore the unique policy and practice considerations to providing child and family services in Indigenous communities in British Columbia. Students will be challenged to synthesize the demands of provincial child welfare legislation with emerging Indigenous practices and policies in a way that protects the identity, cultures, and social structure of Indigenous children and families.
**Note:** Limited to Indigenous students of North America or with permission of the department.
**Prerequisite(s):** SOCW 391.

### SOCW 493 - Units: 1.5 - Hours: 3-0-0
**Working in the Community**
An interdisciplinary community service learning course combining classroom study of community organizations, civic engagement, and related philosophical and ethical issues; the development of professional competencies needed to work effectively in the community; a practicum consisting of a minimum of 40 hours of voluntary work with a community organization or on a community project; and critical reflection from social science perspectives on the practicum experience.
**Note:** Since the class meets once a week and involves community partnerships, joining the course after the second week may compromise learning and securing community placements.
**Prerequisite(s):**
- Minimum third-year standing, and
- one of ECON 225, ENGL 135 with a minimum grade of C+, ENGL 146 with a minimum grade of C+, ENGL 147 with a minimum grade of C+, ENGR 240; and
- permission of the faculty.

### SOCW 300 - Units: 1.5 - Hours: 3-0-0
**Selected Topics in Social Sciences**
Interdisciplinary examination of selected topics of interest to two or more disciplines in Social Sciences.
**Note:** May be taken more than once for credit in different topics to a maximum of 3 units.

### SPAN 100A - Units: 1.5 - Hours: 3-0-0
**Beginners’ Spanish I**
Introduction to Spanish for students with no previous knowledge of Spanish. Acquisition of language and intercultural competencies equivalent to the A1.2 level of the European Common Framework for Languages.
**Notes:**
- Credit will be granted for only one of SPAN 100A, SPAN 100B, SPAN 149.
- Not open to students with credit in Spanish 12.
- Not open to native or near-native speakers of Spanish.

### SPAN 100B - Units: 1.5 - Hours: 3-0-0
**Beginners’ Spanish II**
Acquisition of language and intercultural competencies equivalent to the A1.2 level of the European Common Framework for Languages.
**Notes:**
- Credit will be granted for only one of SPAN 100B, SPAN 100A, SPAN 149.
- Not open to students with credit in Spanish 12.
- Not open to native or near-native speakers of Spanish.
**Prerequisite(s):**
- SPAN 100A; or
- permission of the department.
SPAN 150 Units: 1.5 Hours: 3-0-0
Intermediate Spanish I
Also: ITAL 150
Famous and Infamous Hispanic and Italian Figures (in English)
Introduction to the culture of the Hispanic and Italian world focusing on a limited selection of key political, artistic, and/or literary figures. May include figures such as Montezuma, Christopher Columbus, Leonardo da Vinci, Lucrezia Borgia, Maria Montessori, Benito Mussolini, Frida Kahlo, Evita Perón, La Pasionana, Fidel Castro, or Umberto Eco.
Note: Credit will be granted for only one of SPAN 150, ITAL 150.

SPAN 185 Units: 1.5 Hours: 3-0-0
Hispanic Culture Through Film (in English)
Introductory overview of Latin American films and its relationship to social and historical contexts. Exploration of some key figures, such as Pedro Almodóvar, Fabian Bielinsky, Iciar Bollain, Daniel Burman, Juan Jose Campanella, Alfonso Cuaron, Guillermo del Toro, Alejandro Gonzalez Inarritu, Tomas Gutierrez Alea, Pablo Larrain, Sebastian Leilo, Miguel Littin, Lucoteca Martinez, Pablo Trapero, and Andres Wood.

SPAN 204 Units: 1.5
Experimental Learning
Students present a project, determined in advance by the department, based on work, research, or volunteering while living in a Spanish-speaking country.
Prerequisite(s): Permission of the department.
Grading: COM, N, F.

SPAN 205 Units: 1.5 Hours: 3-0-0
Intermediate Topics in Hispanic Culture (in English)
Themes and cultural trends in Latin America or Spain.
Note: May be taken more than once for credit in different topics with permission of the department.

SPAN 249 Units: 3.0 Hours: 6-0-0
Intensive Intermediate Spanish
Acquisition of intermediate language and intercultural competencies equivalent to the A2.1 level of the European Common Framework for Languages. Equivalent of SPAN 250A and SPAN 250B. Taught mostly in Spanish.
Note: Credit will be granted for only one of SPAN 249, SPAN 250, SPAN 250A, SPAN 250B.
Not open to native or near-native speakers of Spanish.
Prerequisite(s):
One of Spanish 12, SPAN 100B, SPAN 149 or permission of the department.

SPAN 250A Units: 1.5 Hours: 3-0-0
Intermediate Spanish I
Acquisition of intermediate language and intercultural competencies equivalent to the A2.1 level of the European Common Framework for Languages. Taught mostly in Spanish.
Note: Credit will be granted for only one of SPAN 250A, SPAN 249, SPAN 250.
Not open to native or near-native speakers of Spanish.
Prerequisite(s):
One of Spanish 12, SPAN 100B, SPAN 149 or permission of the department.

SPAN 250B Units: 1.5 Hours: 3-0-0
Intermediate Spanish II
Acquisition of intermediate language and intercultural competencies equivalent to the A2.2 level of the European Common Framework for Languages. Taught in Spanish.
Notes:
Credit will be granted for only one of SPAN 250B, SPAN 249, SPAN 250.
Not open to native or near-native speakers of Spanish.
Prerequisite(s): SPAN 250A.

SPAN 265 Units: 1.5 Hours: 3-0-0
Introductory Written Spanish (Study Abroad Program)
Expands the student’s ability to communicate in Spanish in various written forms (essays and close textual analyses). Explores and uses a variety of texts that will serve as examples for the written assignments.
Note: Credit will be granted for only one of SPAN 265, SPAN 280 if taken for 6 units.
Prerequisite(s): SPAN 250A and SPAN 250B.

SPAN 270 Units: 1.5 Hours: 3-0-0
Introduction to Hispanic Literature
A study of selections from major authors of Latin America and Spain in the genres of narrative, drama and poetry. Introduction to basic techniques of literary criticism.
Note: Credit will be granted for only one of SPAN 270, SPAN 260, SPAN 260, SPAN 280 if taken for 6 units.
Corequisite(s): SPAN 250B.

SPAN 280 Units: 4.5 Hours: 6-0-0
Spanish Immersion
Taken in conjunction with 250A/B and/or 350A/B as part of the Study Abroad Program. Combines conversation with an introduction to the culture of Latin America.
Note: Open to students with credit in SPAN 307.
Prerequisite(s):
SPAN 100A and SPAN 100B; or permission of the department.

SPAN 304 Units: 1.5 Hours: 3-0-0
Indigenous Latin America, Social Justice, Environment (in English)
Focuses on the intersection of social and environmental issues as well as the indigenous peoples in countries such as Bolivia, Brazil, Guatemala, Mexico, and Peru. In-depth study of themes including colonization, education, and social mobilization. Lectures, film excerpts, and interactive exercises. Taught in Spanish.
Note: Credit will be granted for only one of SPAN 304, SPAN 305 if taken in the same topic.
Prerequisite(s): Minimum second-year standing.

SPAN 305A Units: 1.5 Hours: 3-0-0
Upper Intermediate Spanish I
Formerly: part of SPAN 305
Upper Intermediate Topics in Hispanic Culture (in English)
Themes and cultural trends in Latin America or Spain.
Note: Credit will be granted for only one of SPAN 305A, SPAN 305 if taken in the same topic.
May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s): Minimum second-year standing.

SPAN 305B Units: 1.5 Hours: 3-0-0
Formerly: part of SPAN 305
Upper Intermediate Topics in Hispanic Culture (in Spanish)
Themes and cultural trends in Latin America or Spain.
Notes:
Credit will be granted for only one of SPAN 305B, SPAN 305 if taken in the same topic.
May be taken more than once for credit in different topics with permission of the department.
Pre- or Corequisite(s):
SPAN 305A; or permission of the department.

SPAN 306 Units: 1.5 Hours: 3-0-0
Formerly: SPAN 208A
Spanish Culture (in English)
An overview of the culture of Spain. Consideration of the artistic, literary, intellectual, social and political trends in Spain from pre-Roman times to the present.
Note: Credit will be granted for only one of SPAN 208A, SPAN 306.

SPAN 307 Units: 1.5 Hours: 3-0-0
Formerly: SPAN 208B
Latin American Culture Through Music (in English)
Overview of the cultures of the Spanish-speaking countries of Latin America through the analysis of song lyrics, audio recordings, music videos and feature films. Exploration of some key figures, such as Salvador Allende, Simon Bolivar, Fidel Castro, Pope Francis I, Ernesto “Che” Guevara, Miguel Hidalgo, Frida Kahlo, La Malinche, Jose Marti, Rigoberta Menchu, Mothers of Plaza de Mayo, Pablo Neruda, Violeta Parra, Evita Peron, Diego Rivera, Mercedes Sosa, Chavela Vargas, Pancho Villa and Emiliano Zapata.
Note: Credit will be granted for only one of SPAN 208B.

SPAN 340 Units: 3.0 Hours: 6-0-0
Spanish Immersion Literature
This course, to be taken in conjunction with 350A/B, is the second part of the Study Abroad Program, and combines conversation with an introduction to the culture and literature of Spain and Latin America.
Prerequisite(s): SPAN 280.

SPAN 350A Units: 1.5 Hours: 3-0-0
Formerly: part of SPAN 350
Upper Intermediate Spanish I
Acquisition of upper-intermediate language and intercultural competencies equivalent to the B1.1 level of the European Common Framework for Languages. Taught in Spanish.
Notes:
Credit will be granted for only one of SPAN 350A, SPAN 350.
Not open to native or near-native speakers of Spanish.
Prerequisite(s):
SPAN 249, or SPAN 250B; or permission of the department.
SPAN 350B - Upper Intermediate Spanish II

Units: 1.5 Hours: 3-0-0

Acquisition of upper-intermediate language and intercultural competencies equivalent to the B1.2 level of the European Common Framework for Languages. Taught in Spanish.

Notes:
- Credit will be granted for only one of SPAN 350B, SPAN 350A, or SPAN 350.
- Not open to native or near-native speakers of Spanish.

Prerequisite(s):
- SPAN 350A; or
- permission of the department.

SPAN 355 - Communicating in Spanish

Units: 1.5 Hours: 3-0-0

This optional companion course to 350B will focus on developing reading, listening, and speaking skills in Spanish at an upper-intermediate level, using a variety of literary texts and films.

Note: Not open to native and near-native speakers of Spanish.

Pre- or Corequisite(s): SPAN 350B.

SPAN 390 - Hispanic Literature I

Units: 1.5 Hours: 3-0-0

Introduces students to the literature of Latin America from 1492 to the present. Surveys the most representative male and female writers, works and movements in relation to their cultural, political and historical contexts.

Note: Credit will be granted for only one of SPAN 390, SPAN 380, SPAN 385.

Pre- or Corequisite(s):
- SPAN 350A; or
- permission of the department.

SPAN 391 - Hispanic Literature II

Units: 1.5 Hours: 3-0-0

Introduces students to the literature of Spain from Medieval times to the present. Surveys the most representative male and female writers, works and movements in relation to their cultural, political and historical contexts.

Note: Credit will be granted for only one of SPAN 391, SPAN 370, SPAN 375.

Pre- or Corequisite(s):
- SPAN 350A; or
- permission of the department.

SPAN 395 - Directed Reading

Units: 1.5 Hours: 3-0-0

Note:
- May be taken more than once for credit in different topics with permission of the department.
- Pro forma required.

Pre-requisite(s):
- SPAN 250B with a minimum grade of B-; or
- permission of the department.

SPAN 408B - Advanced Topics in Spanish Culture

Units: 1.5 Hours: 3-0-0

Explores the artistic, literary, intellectual, social and political trends in Spain from the Middle Ages to the present.

Note: May be taken more than once for credit in different topics with permission of the department.

Pre-requisite(s):
- SPAN 350A; or
- permission of the department.

SPAN 408B - Advanced Topics in Latin American Culture

Units: 1.5 Hours: 3-0-0

Explores the artistic, literary, intellectual, social and political trends in Latin America.

Note: May be taken more than once for credit in different topics with permission of the department.

Pre-requisite(s):
- SPAN 350A; or
- permission of the department.

SPAN 417 - Global Perspectives in the Spanish-speaking World

Units: 1.5 Hours: 3-0-0

Exploration of global dynamics in the Spanishspeaking world aiming to improve students’ critical skills as well as reading, writing and speaking skills. An analysis of contemporary issues, such as globalization, internationalization with particular focus on migration, environment, gender, media and society.

Pre-requisite(s):
- SPAN 350A; or
- permission of the department.

SPAN 450A - Advanced Spanish I

Units: 1.5 Hours: 3-0-0

Acquisition of advanced language and intercultural competencies equivalent to the B2.1 level of the European Common Framework for Languages. Taught in Spanish.

Notes:
- Credit will be granted for only one of SPAN 450A, SPAN 450B, SPAN 450C.
- Not open to native or near-native speakers of Spanish.

Pre-requisite(s):
- SPAN 350A; or
- permission of the department.

SPAN 450B - Advanced Spanish II

Units: 1.5 Hours: 3-0-0

Acquisition of advanced language and intercultural competencies equivalent to the B2.2 level of the European Common Framework for Languages. Taught in Spanish.

Notes:
- Credit will be granted for only one of SPAN 450B, SPAN 450C.
- Not open to native or near-native speakers of Spanish.

Pre-requisite(s):
- SPAN 450A; or
- permission of the department.

SPAN 450C - Advanced Spanish III

Units: 1.5 Hours: 3-0-0

Acquisition of advanced language and intercultural competencies equivalent to the B2.3 level of the European Common Framework for Languages. Taught in Spanish.

Notes:
- Credit will be granted for only one of SPAN 450B, SPAN 450C.
- Not open to native or near-native speakers of Spanish.

Pre-requisite(s):
- SPAN 450A; or
- permission of the department.

SPAN 460 - Hispanic Poetry

Units: 1.5 Hours: 3-0-0

Studies the development of poetry in Latin America and Spain. Emphasis on the cultural, political, and social impact of poetry.

Pre-requisite(s):
- SPAN 350A; or
- permission of the department.

SPAN 469 - Advanced Topics in Hispanic Literatures

Units: 1.5 Hours: 3-0-0

Variable content course focusing attention on themes, literary and cultural trends, countries or authors.

Note: May be taken more than once for credit in different topics.

Pre-requisite(s):
- SPAN 350A; or
- permission of the department.

SPAN 470 - Medieval Literature

Units: 1.5 Hours: 3-0-0

Studies the literature of medieval Spain and its interaction with culture and society.

Notes:
- Credit will be granted for only one of SPAN 470, SPAN 470A, SPAN 470B.
- May be taken more than once for credit in different topics to a maximum of 3 units.

Pre-requisite(s):
- SPAN 350A; or
- permission of the department.

SPAN 472 - Cervantes’ Don Quixote

Units: 1.5 Hours: 3-0-0

A study of Don Quixote in the context of Cervantes’ life and times. Generally given in Spanish.

Note: Open to native and near-native speakers.

Pre-requisite(s):
- If taken in Spanish, SPAN 350A; or
- permission of the department.
- If taken in English, minimum second-year standing.

SPAN 473 - Spanish Golden Age Literature

Units: 1.5 Hours: 3-0-0

Formerly part of 473A and 473C

Studies the literature of the Spanish Renaissance and Baroque from the 16th and 17th centuries and its interaction with culture and society.

Notes:
- Credit will be granted for only one of SPAN 473, SPAN 474A, SPAN 474B, SPAN 474C, SPAN 478A, SPAN 478B.
- May be taken more than once for credit in different topics to a maximum of 3 units.

Pre-requisite(s):
- SPAN 350A; or
- permission of the department.

SPAN 478 - 20th and 21st Century Spanish Literature

Units: 1.5 Hours: 3-0-0

Formerly part of 476C, 478A, 478B, 478C

Studies the literature of Spain from the 20th and 21st centuries and its interaction with culture and society.

Notes:
- Credit will be granted for only one of SPAN 478, SPAN 476C, SPAN 478A, SPAN 478B.
- May be taken more than once for credit in different topics to a maximum of 3 units.

Pre-requisite(s):
- SPAN 350A; or
- permission of the department.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Pre- or Corequisite(s)</th>
<th>Notes</th>
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<td>SPAN 479B</td>
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<td>SPAN 480</td>
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<td>Must have taken SPAN 479A, ITAL 479A if taken in same topics.</td>
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<td>SPAN 483C</td>
<td>1.5</td>
<td>3-0-0</td>
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<td>SPA 484C</td>
<td>1.5</td>
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<td>Must have taken SPAN 479A, ITAL 479A if taken in same topics.</td>
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<td>SPAN 484D</td>
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<td>Must have taken SPAN 479A, ITAL 479A if taken in same topics.</td>
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<td>Must have taken SPAN 479A, ITAL 479A if taken in same topics.</td>
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<td>SPAN 485B</td>
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<td>SPAN 487</td>
<td>1.5</td>
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<td>SPAN 350A; or permission of the department.</td>
<td>Must have taken SPAN 479A, ITAL 479A if taken in same topics.</td>
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<tr>
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<td>SPAN 489</td>
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<td>Must have taken SPAN 479A, ITAL 479A if taken in same topics.</td>
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<td>SPAN 490A</td>
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<td>SPAN 495</td>
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<td>SPAN 350A; or permission of the department.</td>
<td>Must have taken SPAN 479A, ITAL 479A if taken in same topics.</td>
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<td>SPAN 499</td>
<td>1.5</td>
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<td>SPAN 350A; or permission of the department.</td>
<td>Must have taken SPAN 479A, ITAL 479A if taken in same topics.</td>
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</tbody>
</table>
Statistics
Department of Mathematics and Statistics
Faculty of Science

STAT 123
Units: 1.5  Hours: 3-1-0
Data Science
A marriage of computational and inferential thinking that enables analysts to use data to make good decisions. Introduces and develops the foundational skills required to tackle complex data science projects. Topics covered include: R programming, data visualization in R, data wrangling, statistical foundations and introductory regression modeling.

Notes:
- Not open for credit to students with credit in 300- or 400-level STAT course.
- Cannot be counted towards the 3-unit credit limit for lower-level statistics courses.

Prerequisite(s):
- One of MATH 120, Pre-calculus 12 with a minimum grade of C+ (67%); Principles of Mathematics 12 with a minimum grade of C+ (67%); or permission of the department.

STAT 252
Units: 1.5  Hours: 3-0-0
Statistics for Business
Descriptive statistics, probability, random variables, discrete and continuous probability distributions, random sampling and sampling distributions, point and interval estimation, hypothesis testing, statistical inference for comparing samples from two populations, simple linear regression, contingency tables. Examples will be taken from business applications. Students will be expected to analyze data using computing facilities.

Notes:
- Credit will be granted for only one of STAT 252, STAT 255.
- Not open to students registered in or with credit in one of STAT 254, STAT 250, STAT 260.
- See "Credit Limit - Beginning Level Statistics Courses".
- Intended primarily for Business students.

Prerequisite(s): MATH 151.

STAT 254
Units: 1.5  Hours: 3-0-1
Probability and Statistics for Engineers
Probability axioms, properties of probability, counting techniques, conditional probability, independence, random variables, discrete and continuous probability distributions, expectation, variance, binomial, hypergeometric, negative binomial, Poisson, uniform, normal, gamma and exponential distributions; discrete and continuous joint distributions, independent random variables, expectation of functions of random vectors, covariance, random samples and sampling distributions, central limit theorem; point and interval estimation; hypothesis testing; linear regression and correlation.

Notes:
- Credit will be granted for only one of STAT 254, STAT 250, STAT 260.
- See "Credit Limit - Beginning Level Statistics Courses".

Prerequisite(s): Admission to BEng program.
Corequisite(s): MATH 200.

STAT 255
Units: 1.5  Hours: 3-0-0
Statistics for Life Sciences I
Descriptive statistics; probability; random variables and probability distributions; expectation; binomial, Poisson, and normal distributions; random sampling and sampling distributions; point and interval estimation; classical hypothesis testing and significance testing. Statistical examples and applications from life sciences will be emphasized.

Notes:
- Credit will be granted for only one of STAT 255, STAT 252.
- Not open to students registered in or with credit in one of STAT 254, STAT 250, STAT 260.
- See "Credit Limit - Beginning Level Statistics Courses".
- Intended primarily for students in Biochemistry, Microbiology, Biology, Environmental Studies combined with a Science discipline, Kinesiology, and Combined Computer Science and Health Information Science.

Prerequisite(s):
- One of MATH 120, Pre-calculus 12 with a minimum grade of C+ (67%); Principles of Mathematics 12 with a minimum grade of C+ (67%); or permission of the department.

STAT 256
Units: 1.5  Hours: 3-1-0
Statistics for Life Sciences II
Estimation and hypothesis testing; analysis of variance and the design of experiments; regression and correlation; analysis of categorical data; distribution-free procedures. Statistical examples and applications from life sciences will be emphasized.

Notes:
- Credit will be granted for only one of STAT 256, STAT 251, STAT 261.
- Intended primarily for students in Biochemistry, Microbiology, Biology, and Environmental Studies.

Prerequisite(s):
- One of MATH 252, STAT 254, STAT 255, STAT 260.

STAT 260
Units: 1.5  Hours: 3-0-0
Introduction to Probability and Statistics I
Descriptive statistics; elementary probability theory; random variables, discrete and continuous probability distributions, expectation, joint, marginal and conditional distributions; linear functions of random variables; random sampling and sampling distributions; point and interval estimation; classical hypothesis testing and significance testing. The mathematical foundations of statistical inference will be introduced and illustrated with examples from a variety of disciplines.

Notes:
- Credit will be granted for only one of STAT 260, STAT 250, STAT 254.
- See "Credit Limit - Beginning Level Statistics Courses".

Pre- or Corequisite(s):
- MATH 101 or MATH 208.

STAT 261
Units: 1.5  Hours: 3-1-0
Introduction to Probability and Statistics II
Estimation and hypothesis testing; normal sampling distribution theory; analysis of variance and the design of experiments; regression and correlation; analysis of categorical data; distribution-free procedures. The mathematical foundations of statistical inference will be introduced and illustrated with examples from a variety of disciplines.

Note: Credit will be granted for only one of STAT 261, STAT 251, STAT 256.

Prerequisite(s):
- STAT 254 or STAT 260; and
- MATH 101 or MATH 208.

STAT 321
Units: 1.5  Hours: 3-0-1
Data Management and Presentation
Data acquisition by scraping and other means. Data storage, cleaning and wrangling. Database administration, design and queries. Presentation of data in tabular, graphical summary, and interactive formats, including special methods for spatial and multivariate data. Statistical analysis, programming, and simulation.

Prerequisite(s): 1.5 units of STAT course.
Recommendation(s): Experience in computer programming recommended prior to STAT 321.

STAT 350
Units: 1.5  Hours: 3-0-0
Mathematical Statistics I
Discrete and continuous probability models, random variables and their distributions, mathematical expectation, moment generating functions, sums of random variables, limit theory, and sampling distributions. Emphasis on the probability theory needed for 450.

Prerequisite(s):
- One of STAT 252, STAT 254, STAT 255, STAT 260; and
- MATH 200 or MATH 205.

STAT 353
Units: 1.5  Hours: 3-0-0
Applied Regression Analysis
An outline of linear regression theory with applications; multiple linear regression, polynomial regression, model adequacy checking, variable transformation, variable selection, indicator variable, diagnostics for leverage and influential observations, multicollinearity problem, model selection, stepwise regression, prediction and inference.

Prerequisite(s):
- STAT 256 or STAT 261; and
- MATH 110 or MATH 211; or
- permission of the department.

STAT 354
Units: 1.5  Hours: 3-0-0
Sampling Techniques
Principal steps in planning and conducting a sample survey. Sampling techniques including stratification, systematic sampling and multistage sampling. Practical survey designs with illustrations. Nonsampling errors.

Prerequisite(s):
- One of STAT 256, STAT 261, STAT 355, STAT 359; or
- permission of the department.

STAT 355
Units: 1.5  Hours: 3-0-0
Statistical Methods in Health Sciences
Rates and comparison of rates: case-control studies; odds ratios; regression models; Poisson and logistic regression; dose-response models; Cox’s regression analysis.

Prerequisite(s): 1.5 units of STAT course.
STAT 359  Units: 1.5  Hours: 3-0-0  
Data Analysis  
An introductory data analysis course for students who have had an introduction to descriptive statistics, probability distributions, estimation, hypothesis testing and confidence intervals. Emphasis is placed on proper use of computer software, interpretation of output and assumptions required for use of each statistical method. Topics may include: linear and nonlinear regression, time series analysis, analysis of variance, design of experiments, generalized linear models, repeated measures analysis, survival analysis, methods for multivariate data, and nonparametric methods.  
Prerequisite(s):  
• One of STAT 252, STAT 254, STAT 255, STAT 260, ECON 245, GEOG 226, PSYC 309A, SOCO 371A; or  
• permission of the department.  
STAT 450  Units: 1.5  Hours: 3-0-0  
Mathematical Statistics II  
Brief introduction to decision theory, point and interval estimation, hypothesis testing, regression and correlation, analysis of variance. Emphasis on the mathematics of statistics.  
Note: Credit will be granted for only one of STAT 450, STAT 351.  
Prerequisite(s):  
• STAT 256 or STAT 261; and  
• STAT 350  
STAT 453  Units: 1.5  Hours: 3-0-0  
The Design and Analysis of Experiments  
An introduction to the principles of experimental design and the techniques of analysis of variance. A discussion of experimental error, randomization, replication, and local control. Analysis of variance is developed for single factor and multifactor experiments. The use of concomitant observations. Multiple comparisons and orthogonal contrasts.  
Prerequisite(s):  
• One of STAT 251, STAT 256, STAT 261; and  
• STAT 353; or  
• permission of the department.  
STAT 454  Units: 1.5  Hours: 3-0-0  
Topics in Applied Statistics  
Possible topics include: Bayesian statistics, bioinformatics, biostatistics, clustering methods, longitudinal data analysis, mixture models, robust statistics, spatial statistics, sampling theory and methods, statistics for imaging, and statistical computing. Information on the topics available in any given year may be obtained from the department.  
Note: May be taken more than once for credit in different topics with permission of the department.  
Prerequisite(s): Permission of the department.  
STAT 455  Units: 1.5  Hours: 3-0-0  
Distribution-Free Statistics  
Tests based on the binomial distribution; contingency tables; methods based on ranks; statistics of the Kolmogorov-Smirnov type; resampling methods; empirical likelihood methods.  
Note: Students with credit for STAT 454 require permission of the department.  
Prerequisite(s):  
• STAT 256 or STAT 261; and  
• STAT 350  
STAT 456  Units: 1.5  Hours: 3-0-0  
Multivariate Analysis  
Multivariate normal distribution; multivariate analysis of variance; regression; discriminant analysis; classification analysis; principal component analysis; cluster analysis; and factor analysis.  
Note: Students with credit for STAT 454 require permission of the department.  
Prerequisite(s): STAT 350 and STAT 353.  
STAT 457  Units: 1.5  Hours: 3-0-0  
Time Series Analysis  
Stationary time series; Box-Jenkins methodology; autoregressive, moving-average and ARIMA models; smoothing, time series regression; spectral analysis and linear filters.  
Note: Students with credit for STAT 454 require permission of the department.  
Prerequisite(s):  
• For students with declared Major in Combined Financial Mathematics and Economics:  
  • STAT 350 and ECON 366.  
• For students without declared Major in Combined Financial Mathematics and Economics:  
  • STAT 350 and STAT 353.  
STAT 458  Units: 1.5  Hours: 3-0-0  
Generalized Linear Models  
Nonlinear regression models; logit and probit models for binomial responses; log-linear models for counts; quasi-likelihoods and generalized estimating equations for non-normal data.  
Note: Students with credit for STAT 454 require permission of the department.  
Prerequisite(s): STAT 350 and STAT 353.  
STAT 459  Units: 1.5  Hours: 3-0-0  
Survival Analysis  
Analysis of time-to-failure data; censoring; survival, hazard rate and mean residual life functions; nonparametric estimation and comparisons of survival functions; covariates; parametric models, semi-parametric (Cox) regression model; time-dependent covariates.  
Note: Students with credit for STAT 454 require permission of the department.  
Prerequisite(s): STAT 350 and STAT 353.  
STAT 460  Units: 1.5  Hours: 3-0-0  
Bayesian Statistics  
Bayesian modelling, prior distributions; Jeffreys prior, posterior distributions, single and multi-parameter models; Bayesian point and interval estimation; Bayes factors and point null hypothesis testing; Bayesian computation; decision theory. Other topics may include: hierarchical modeling, Bayesian model selection.  
Notes:  
• Credit will be granted for only one of STAT 460, STAT 454 (if taken in the same topic).  
• May be offered as a joint undergraduate and graduate class.  
Prerequisite(s): STAT 350 or permission of the department.  
STAT 464  Units: 1.5  Hours: 3-0-0  
Statistical Computing  
Computer representation of numbers, univariate optimization, multivariate optimization, combinatorial optimization, genetic algorithms, EM algorithm, random number generation, numerical integration, simulation and Monte Carlo integration, Gibbs sampling, Metropolis-Hastings algorithm, bootstrapping. Other topics may include: permutation tests, smoothing, reversible jump MCMC, importance sampling, hybrid Gibbs sampling.  
Notes:  
• Credit will be granted for only one of STAT 464, STAT 454 (if taken in the same topic).  
• May be offered as a joint undergraduate and graduate class.  
Prerequisite(s):  
• MATH 211; and  
• STAT 261 or STAT 359; and  
• STAT 350 with a minimum grade of C+; or  
• permission of the department.  
STAT 465  Units: 1.5  Hours: 3-0-0  
Statistical Methods for Genomic Data  
Introduction to genomic data and statistical methodology for its analysis; examples of data may include single-nucleotide polymorphisms or gene expression levels, generated from microarrays or next-generation sequencing. Statistical techniques may include data preprocessing, filtering, normalization, exploratory methods, visualization, dimension reduction, differential expression, generalized linear models, corrections for multiple comparisons, clustering, gene ontology analyses, genome-wide association studies.  
Note: May be offered as a joint undergraduate and graduate class.  
Prerequisite(s):  
• STAT 350 and STAT 353; or  
• permission of the department.  
STAT 466  Units: 1.5  Hours: 3-0-0  
Robust Statistics  
Influence function and breakdown point; efficiency and robustness; robust location and scale estimation; robust regression; robust covariance matrix estimation; robust k-means clustering; robust principal component analysis; outlier detection.  
Note: May be offered as a joint undergraduate and graduate class.  
Prerequisite(s):  
• STAT 350 and STAT 353; or  
• permission of the department.  
STAT 498  Units: 1.5  Hours: 1.5 - 4.5-0  
Seminar and Independent Project  
Seminar and research project in statistics under the direction of a faculty member. The student is required to pursue an independent project, to prepare a written report, and to give a talk in the statistics seminar describing the work. Only available in areas of faculty interest.  
Prerequisite(s): Permission of the department.
### THEA 101A - THEA 225

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 101A</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Introduction to Western Theatre I - A practical and theoretical introduction to play analysis, dramatic criticism, theatrical form and the principles of stage production from Ancient Greece to the Neoclassical Era. Not open to Theatre Majors.</td>
</tr>
<tr>
<td>THEA 101B</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Introduction to Western Theatre II - A practical and theoretical introduction to play analysis, dramatic criticism, theatrical form and the principles of stage production from the Restoration Era to the modern day. Not open to Theatre Majors.</td>
</tr>
<tr>
<td>THEA 102</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Theatre Appreciation from Page to Stage - Enhances understanding and appreciation of today’s theatre. Not open to Theatre Majors.</td>
</tr>
<tr>
<td>THEA 105</td>
<td>3.0</td>
<td>1-3-0</td>
<td>Introduction to Stagecraft and Technical Practice - The intensive study and application of the principles of scenery and costume construction, stage lighting, and theatre organization and practice. Practical assignments will include the preparation and crewing of department productions, which may occur outside of regularly scheduled hours. Prerequisite(s): Admission to the Theatre Major program.</td>
</tr>
<tr>
<td>THEA 111</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Theatre History I - A survey of the history of western theatre from its beginnings to the Middle Ages. Early forms, conventions and styles are compared with those of the contemporary theatre. Note: Credit will be granted for only one of THEA 111, THEA 100, THEA 110.</td>
</tr>
<tr>
<td>THEA 120A</td>
<td>1.5</td>
<td>0-3-0</td>
<td>Formerly: THEA 120 - Introduction to the Art of Acting I - An orientation to the art of acting and an introduction to the actor’s creative process. Note: Credit will be granted for only one of THEA 120A, THEA 120. Prerequisite(s): Admission to a program in Theatre.</td>
</tr>
<tr>
<td>THEA 120B</td>
<td>1.5</td>
<td>0-3-0</td>
<td>Formerly: THEA 120 - Introduction to the Art of Acting II - A continuation of the Art of Acting I. Note: Credit will be granted for only one of THEA 120B, THEA 120. Prerequisite(s): THEA 120A.</td>
</tr>
<tr>
<td>THEA 122</td>
<td>1.5</td>
<td>0-3-0</td>
<td>The Acting Experience - An examination of the fundamentals of the art of acting through self-exploration, improvisation, character and scene study. Note: Not open to students registered in or with credit in any of THEA 120, THEA 120A, THEA 120B, THEA 121.</td>
</tr>
<tr>
<td>THEA 132A</td>
<td>1.5</td>
<td>0-3-0</td>
<td>Formerly: THEA 132 - Exploring Theatre Through Dramatic Process I - A course designed for students interested in the improvisational nature of theatre as it applies to working spontaneously or through text with an emphasis on collective creation. Note: Credit will be granted for only one of THEA 132A, THEA 132, THEA 181. Recommendation(s): Recommended for students considering careers in alternative theatre practices, theatre for social change, health education, museum education and young audiences, teaching, recreation, counselling, child and youth care.</td>
</tr>
<tr>
<td>THEA 132B</td>
<td>1.5</td>
<td>0-3-0</td>
<td>Formerly: THEA 132 - Exploring Theatre Through Dramatic Process II - A continuation of the explorations of improvisation and collective creation. Note: Credit will be granted for only one of THEA 132B, THEA 132, THEA 181. Prerequisite(s): THEA 132A.</td>
</tr>
<tr>
<td>THEA 150</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Public Speaking - An overview of the theoretical bases of speech communication and the development of the vocal, verbal and non-verbal skills of organization and presentation essential to effective communication.</td>
</tr>
<tr>
<td>THEA 205</td>
<td>3.0</td>
<td>0-3-0</td>
<td>Introduction to Production and Management Areas of the Theatre - The basic principles and procedures of the major production and management areas of the theatre. Includes a practical assignment in a department or other designated production(s). Note: Students enrolled in this course must consult the instructor before making evening or lunchtime engagements which might interfere with the schedule of practical assignments that may occur outside of regularly scheduled hours. Prerequisite(s): All of THEA 105, THEA 120A, THEA 132A, THEA 236; or all of THEA 105, THEA 112, THEA 120; and permission of the department.</td>
</tr>
<tr>
<td>THEA 220</td>
<td>1.5</td>
<td>0-3-0</td>
<td>Fundamentals of Play Analysis - A beginner’s guide to script analysis that focuses on how to read and analyze a play text. Prerequisite(s): All of THEA 105, THEA 120A, THEA 132A, THEA 236; or all of THEA 105, THEA 112, THEA 120; or permission of the department.</td>
</tr>
<tr>
<td>THEA 225</td>
<td>1.5</td>
<td>0-4.5-0</td>
<td>Acting I (non-Performance Focus) - Work in characterization and scene study designed for Theatre students who are pursuing programs other than the Performance Focus. Note: Not open to students registered in or with credit in any of THEA 221, THEA 222. Prerequisite(s): All of THEA 105, THEA 120A, THEA 132A, THEA 236; or all of THEA 105, THEA 112, THEA 120; or permission of the department.</td>
</tr>
<tr>
<td>THEA 226</td>
<td>1.5</td>
<td>0-4.5-0</td>
<td>Acting II (Performance Focus) - Work in characterization and scene study designed for theatre students who are pursuing programs other than the Performance Focus. Note: Not open to students registered in or with credit in any of THEA 221, THEA 222. Prerequisite(s): THEA 218. Recommendation(s): Recommended for students considering careers in alternative theatre practices, theatre for social change, health education, museum education and young audiences, teaching, recreation, counselling, child and youth care.</td>
</tr>
<tr>
<td>THEA 228</td>
<td>1.5</td>
<td>0-4.5-0</td>
<td>Acting I (Performance Focus) - Work in characterization and scene study. Note: Credit will be granted for only one of THEA 221, THEA 220. Prerequisite(s): All of THEA 105, THEA 120A, THEA 132A, THEA 236; or all of THEA 105, THEA 112, THEA 120; and admission to Theatre Major program with Performance Focus.</td>
</tr>
<tr>
<td>THEA 229</td>
<td>1.5</td>
<td>0-4.5-0</td>
<td>Acting II (Performance Focus) - Work in characterization and scene study. Note: Credit will be granted for only one of THEA 222, THEA 220. Prerequisite(s): THEA 221.</td>
</tr>
<tr>
<td>THEA 232</td>
<td>1.5</td>
<td>0-4.5-0</td>
<td>Introduction to Voice - Basic development of the voice. Note: Enrolment limited. Prerequisite(s): All of THEA 105, THEA 120A, THEA 132A, THEA 236; or all of THEA 105, THEA 112, THEA 120; and admission to Theatre Major program with Performance Focus.</td>
</tr>
<tr>
<td>THEA 233</td>
<td>1.5</td>
<td>0-4.5-0</td>
<td>Introduction to Stage Movement - Development of a basic movement vocabulary for the stage. Notes: Credit will be granted for only one of THEA 225, THEA 260. Enrolment limited. Prerequisite(s): All of THEA 105, THEA 120A, THEA 132A, THEA 236; or all of THEA 105, THEA 112, THEA 120; and admission to Theatre Major program with Performance Focus.</td>
</tr>
</tbody>
</table>
THEA 234  Units: 1.5  Hours: 0-3-0
The Director and Designer Relationship
Focuses on the fundamentals of developing shared vocabularies and processes necessary in the director and designer relationship.
Prerequisite(s):
- All of THEA 105, THEA 120A, THEA 132A, THEA 236; or
- all of THEA 105, THEA 112, THEA 120; or
- permission of the department.

THEA 235  Units: 3.0  Hours: 3-0-0
Introduction to Applied Theatre
A broad interpretive examination of the uses of theatre in a variety of educational and non-traditional settings.
Prerequisite(s):
- All of THEA 105, THEA 120A, THEA 132A, THEA 236; or
- all of THEA 105, THEA 112, THEA 120; or
- permission of the department.

THEA 236  Units: 1.5  Hours: 3-0-0
Theatre History II
A survey of the history of Western theatre from the Middle Ages through the Early Modern period.
Note: Credit will be granted for only one of THEA 236, THEA 100, THEA 110, THEA 112.
Prerequisite(s):
- THEA 111; or
- permission of the department.

THEA 246  Units: 1.5  Hours: 3-0-0
Theatre History III
A survey of Western theatre history from the Early Modern period through the 19th century. Introduces library research methods in theatre history.
Note: Credit will be granted for only one of THEA 246, THEA 200, THEA 210.
Prerequisite(s):
- THEA 112 or THEA 236; or
- permission of the department.

THEA 251  Units: 1.5  Hours: 1-3-0
Introduction to Design I
Exploring the elements and principles of design in two and three dimensions.
Note: Credit will be granted for only one of THEA 251, THEA 240.
Prerequisite(s): Permission of the department.

THEA 252  Units: 1.5  Hours: 1-3-0
Introduction to Design II
Development of studio techniques in drafting and physical scale model building. Computer aided drafting is explored.
Note: Credit will be granted for only one of THEA 252, THEA 240.
Prerequisite(s): Permission of the department.

THEA 261  Units: 1.5  Hours: 3-1-0
Costume Design I
An introduction to the design principles, drawing techniques, and materials of costume design for the stage and other media.
Prerequisite(s): Permission of the department.

THEA 299  Units: 1.5 or 3.0  Hours: 1.5 or 3.0
Theatre Laboratory
Under the supervision of faculty, students will participate in projects that will include both their particular areas of interest and other aspects of the theatre.
Note: May be taken more than once for credit to a maximum of 3 units.
Prerequisite(s): Permission of the department.

THEA 304  Units: 1.5  Hours: 3-0-0
Acting for the Camera
Familiarizes students with the techniques necessary to deliver a truthful performance for the camera. The course will also address set etiquette, finding an agent, cold reading, how to do a live audition and how to prepare a taped audition.
Prerequisite(s): Minimum second-year standing.

THEA 305  Units: 1.5 or 3.0  Hours: 0-6-2
Advanced Production and Management
Students are instructed and given practical experience in one or more of the major production and management areas of the theatre.
Notes:
- May be taken more than once for credit in different topics with permission of the department to a maximum of 6 units.
- Enrolment limited.
Prerequisite(s):
- THEA 205; and
- permission of the department.

THEA 306  Units: 1.5  Hours: 4-0-0
History of Opera to the Late 19th Century
Survey course designed to introduce students to the history of opera as a theatrical genre. Emphasis will be placed upon composers and librettists who were major influences in the development of opera from the Renaissance through to the end of the Romantic age. Dramatic style and theory will be addressed.
Note: Credit will be granted for only one of THEA 309A, THEA 309.
Prerequisite(s):
- THEA 211 or THEA 347; or
- permission of the department.

THEA 311  Units: 1.5  Hours: 3-0-0
Seminar in Theatre History II
Intensive study of a specific period or genre. The topics for consideration will change each year.
Note: May be taken more than once for credit in different topics to a maximum of 4.5 units.
Prerequisite(s):
- THEA 211 or THEA 347; or
- permission of the department.

THEA 314  Units: 1.5  Hours: 3-0-0
Studies in Theatre of the Ancient World
Theatre in ancient Greece and/or Rome.
Notes:
- Credit will be granted for only one of THEA 314, THEA 306.
- May be taken more than once for credit in different topics to a maximum of 4.5 units.
- Students should consult the department for the topic to be considered.
Prerequisite(s):
- THEA 211 or THEA 347; or
- permission of the department.

THEA 315  Units: 1.5  Hours: 3-0-0
Studies in Medieval Theatre
Theatre of the Middle Ages.
Notes:
- Credit will be granted for only one of THEA 315, THEA 307.
- May be taken more than once for credit in different topics to a maximum of 4.5 units.
- Students should consult the department for the topic to be considered.
Prerequisite(s):
- THEA 211 or THEA 347; or
- permission of the department.

THEA 316  Units: 1.5  Hours: 3-0-0
Studies in Theatre of the Enlightenment
Theatre in the 17th and 18th centuries.
Notes:
- May be taken more than once for credit in different topics to a maximum of 4.5 units.
- Students should consult the department for the topic to be considered.
Prerequisite(s):
- THEA 211 or THEA 347; or
- permission of the department.

THEA 317  Units: 1.5  Hours: 3-0-0
Studies in 19th-Century Theatre
Theatre in the 19th century.
Notes:
- May be taken more than once for credit in different topics to a maximum of 4.5 units.
- Students should consult the department for the topic to be considered.
Prerequisite(s):
- THEA 211 or THEA 347; or
- permission of the department.
THEA 318 Units: 1.5 Hours: 3-0-0
Studies in Contemporary Theatre
Modern theatre.
Notes:
• May be taken more than once for credit in different topics to a maximum of 4.5 units.
• Students should consult the department for the topic to be considered.
Prerequisite(s):
• THEA 211 or THEA 347, or
• permission of the department.
THEA 319 Units: 1.5 Hours: 3-0-0
Studies in Renaissance Theatre
The Renaissance in the theatre of Italy, France and England.
Notes:
• Credit will be granted for only one of THEA 319, THEA 308. 
• May be taken more than once for credit in different topics to a maximum of 4.5 units.
• Students should consult the department for the topic to be considered.
Prerequisite(s):
• THEA 211 or THEA 347, or
• permission of the department.
THEA 321 Units: 1.5 Hours: 0-4.5-0
Acting III
The study of acting as related to specific theatrical genres, styles or periods.
Note: Credit will be granted for only one of THEA 321, THEA 320.
Prerequisite(s):
• All of THEA 205, THEA 222, THEA 223, THEA 225; and
• Either THEA 206 and THEA 347, or THEA 211.
THEA 322 Units: 1.5 Hours: 0-4.5-0
Acting IV
A continuation of THEA 321.
Note: Credit will be granted for only one of THEA 322, THEA 320.
Prerequisite(s): THEA 321.
THEA 323 Units: 1.5 Hours: 0-4.5-0
Voice and Speech in the Theatre I
Work in voice and speech as related to specific theatrical genres, styles or periods.
Note: Credit will be granted for only one of THEA 323, THEA 350.
Prerequisite(s): THEA 323.
THEA 324 Units: 1.5 Hours: 0-4.5-0
Voice and Speech in the Theatre II
A continuation of 323. Work in voice and speech as related to specific theatrical genres, styles or periods.
Note: Credit will be granted for only one of THEA 324, THEA 350.
Prerequisite(s): THEA 323.
THEA 347  Units: 1.5  Hours: 3-0-0
Theatre History IV
A survey of western theatre history from the 19th century to the present day. Includes research with primary source.
Note: Credit will be granted for only one of THEA 347, THEA 200, THEA 211.
Prerequisite(s):
•  THEA 210 or THEA 246; or
•  permission of the department.

THEA 348  Units: 1.5  Hours: 3-0-0
Lighting for the Theatre I
The theory and practice of lighting.
Note: Credit will be granted for only one of THEA 348, THEA 342.
Prerequisite(s): THEA 205.
Recommendation(s): THEA 206 and THEA 347 recommended prior to THEA 348.

THEA 351  Units: 1.5  Hours: 2-2-0
Introduction to Scenic Design
Further development of two- and three-dimensional design communication skills explored through the study of 20th and 21st century scenographic styles.
Note: Credit will be granted for only one of THEA 351, THEA 340.
Prerequisite(s):
•  All of THEA 205, THEA 251, THEA 252; and
•  either THEA 206 and THEA 347, or THEA 211.

THEA 352  Units: 1.5 or 3.0  Hours: 0-4-0
Scenic Design
Paper projects in the design of stage settings.
Notes:
•  Credit will be granted for only one of THEA 352, THEA 340.
•  May be taken more than once for credit.
Prerequisite(s):
•  THEA 351; and
•  permission of the Department.

THEA 353  Units: 1.5 or 3.0  Hours: 0-3-0
Assisting the Scenic Designer
Assisting the scenic designer of a mainstage production.
Note: May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s):
•  THEA 351 and THEA 352, and
•  permission of the department.
Recommendation(s): THEA 334 recommended prior to THEA 353.

THEA 354  Units: 1.5 or 3.0  Hours: 0-3-0
Assisting the Lighting Designer
Assisting the lighting designer of a mainstage production.
Note: May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s): Permission of the department.
Pre- or Corequisite(s): THEA 349.

THEA 355  Units: 1.5  Hours: 3-0-0
Ways of Seeing I
An introduction to the language of creativity and visual expression. A study of elements of design and how we apply them in the theatre. The class will consist of theoretical discussion, historical analysis and practical design assignments.
Prerequisite(s): Permission of the department.

THEA 356  Units: 1.5  Hours: 3-0-0
Ways of Seeing II
Further explorations in the use, creative interpretation, and communication of stage design through theory and practical projects.
Prerequisite(s): THEA 355.

THEA 361  Units: 1.5  Hours: 3-1-0
Costume Design II
The further study and development of the art, craft and practice needed in the design of costumes.
Prerequisite(s):
•  THEA 261; and
•  permission of the department.

THEA 362  Units: 1.5  Hours: 3-0-0
History of Fashion and Body Modification I
A survey of costume and fashion from ancient times through the 17th century. Historical analysis of garments with emphasis on cultural, artistic and psychological aspects.
Note: THEA 362 may be credited as a Theatre History course or Design course but not both.

THEA 363  Units: 1.5  Hours: 3-0-0
History of Fashion and Body Modification II
A survey of costume and fashion in the 18th, 19th, 20th, and 21st centuries. Historical analysis and a detailed study of how clothing/costume signals and defines culture.
Note: THEA 363 may be credited as a Theatre History course or Design course but not both.

THEA 365  Units: 1.5 or 3.0  Hours: 4-0-0
Assisting the Costume Designer
Working alongside the costume designer of a mainstage production.
Note: May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s):
•  THEA 361; and
•  permission of the department.
Recommendation(s): THEA 234 recommended prior to THEA 365.

THEA 367  Units: 1.5  Hours: 3-0-0
Producing Non-Profit Professional Theatre in Canada
The basic issues facing producers of non-profit professional theatre in Canada. Models studied will range from the large (regional or festival theatres) to the small (fringe shows). Topics include mandates and artistic vision, incorporation and governance of non-profit societies; creation of artistic vision, fundamentals of budgeting, marketing, development and production management strategies.
Note: Credit will be granted for only one of THEA 367, THEA 399 (if taken in the same topic).
Prerequisite(s): Minimum third-year standing.

THEA 379  Units: 1.5  Hours: 0-3-0
Musical Theatre Workshop in Singing
Includes work in vocal technique, presentation and interpretation. Examines both solo and choral work.
Prerequisite(s): Minimum second-year standing.

THEA 390  Units: 1.5 or 3.0
Directed Studies in Theatre History
Notes:
•  Credit will only be granted for one of THEA 390, THEA 344 (if taken in the same topic); and
•  May be taken more than once for credit in different topics to a maximum of 6 units.
Prerequisite(s):
•  THEA 211 or THEA 347; and
•  permission of the department.

THEA 391  Units: 1.5 or 3.0
Directed Studies in the History of Drama
Notes:
•  Credit will only be granted for one of THEA 391, THEA 344 (if taken in the same topic); and
•  May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s):
•  THEA 211 or THEA 347; and
•  permission of the department.

THEA 392  Units: 1.5 or 3.0
Directed Studies in Theories of Acting
Notes:
•  Credit will only be granted for one of THEA 392, THEA 344 (if taken in the same topic); and
•  May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s):
•  THEA 219 or THEA 222; and
•  permission of the department.

THEA 393  Units: 1.5 or 3.0
Directed Studies in Theories of Directing
Notes:
•  Credit will only be granted for one of THEA 393, THEA 344 (if taken in the same topic); and
•  May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s):
•  Either THEA 211, or THEA 234 and THEA 347; and
•  THEA 332; and
•  permission of the department.

THEA 394  Units: 1.5 or 3.0
Directed Studies in Applied Theatre
Supervised research in Applied Theatre culminating in the production of a specific project either written or practical.
Notes:
•  Credit will only be granted for one of THEA 394, THEA 344 (if taken in the same topic); and
•  May be taken more than once for credit in different topics to a maximum of 6 units.
Prerequisite(s): Permission of the department.
THEA 395 Units: 1.5 or 3.0
Directed Studies in Production and/or Management
Notes:
• Credit will only be granted for one of THEA 395, THEA 344 (if taken in the same topic); and
• May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s):
• THEA 205; and
• permission of the department.

THEA 396 Units: 1.5 or 3.0
Directed Studies in Scene Design
Notes:
• Credit will only be granted for one of THEA 396, THEA 344 (if taken in the same topic); and
• May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s):
• THEA 352; and
• permission of the department.

THEA 397 Units: 1.5 or 3.0
Directed Studies in Costume Design
Notes:
• Credit will only be granted for one of THEA 397, THEA 344 (if taken in the same topic); and
• May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s):
• THEA 362 and THEA 363; and
• permission of the department.

THEA 398 Units: 1.5 or 3.0
Directed Studies in Lighting Design
Notes:
• Credit will only be granted for one of THEA 398, THEA 344 (if taken in the same topic); and
• May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s):
• THEA 348 and THEA 349; and
• permission of the department.

THEA 399 Units: 1.5 or 3.0
Theatre Laboratory
Under the supervision of faculty, students will participate in projects that will include both their particular areas of interest and other aspects of the theatre.
Note: May be taken more than once for credit to a maximum of 3 units.
Prerequisite(s): Permission of the department.

THEA 405 Units: 1.5 or 3.0 Hours: 0-6-2
Specialized Studies in Production and Management
Supervised practical experience in one or two specialized areas of production and management in the theatre.
Notes:
• May be taken more than once for credit to a maximum of 6 units.
• Enrolment limited.
Prerequisite(s):
• THEA 305; and
• permission of the department.

THEA 409 Units: 1.5 Hours: 3-0-0
Theories of Acting From Antiquity to Today
A historical survey of acting theory from past to the present. Traces and evaluates the conceptualization and expression of acting methods across historical periods and theatrical cultures.
Note: Credit will be granted for only one of THEA 409, THEA 310 (if taken in the same topic), THEA 311 (if taken in the same topic).
Prerequisite(s):
• THEA 211 or THEA 347; or
• permission of the department.

THEA 410 Units: 1.5 Hours: 3-0-0
Seminar in Theatre History III
Intensive study of a specific period or genre. The topics for consideration will change each year.
Note: May be taken more than once for credit in different topics to a maximum of 4.5 units.
Prerequisite(s):
• THEA 211 or THEA 347; or
• permission of the department.

THEA 411 Units: 1.5 Hours: 3-0-0
Seminar in Theatre History IV
Intensive study of a specific period or genre. The topics for consideration will change each year.
Note: May be taken more than once for credit in different topics to a maximum of 4.5 units.
Prerequisite(s):
• THEA 211 or THEA 347; or
• permission of the department.

THEA 414 Units: 1.5 Hours: 3-0-0
Studies in Canadian Theatre
Explores the dramatic texts and theatrical styles of the Canadian theatre.
Note: May be taken more than once for credit in different topics to a maximum of 4.5 units.
Prerequisite(s):
• THEA 211 or THEA 347; or
• permission of the department.

THEA 415 Units: 1.5 Hours: 3-0-0
Methods and Materials of Theatre Research
Introduces students to the skills required to do original scholarly research in Theatre.
Notes:
• Credit will be granted for only one of THEA 415, THEA 490 (if taken in the same topic).
• A combined undergraduate and graduate course.
Prerequisite(s):
• THEA 211 or THEA 336; and
• permission of the department.

THEA 416 Units: 1.5 Hours: 3-0-0
Theories of Meaning
A survey of the chief schools of reading and interpretation from biographical criticism to post-humanism.
Notes:
• Credit will be granted for only one of THEA 416, THEA 490 (if taken in the same topic).
• A combined undergraduate and graduate course.
Prerequisite(s): THEA 415.

THEA 421 Units: 1.5 Hours: 0-4.5-0
Acting V
Advanced work in acting.
Note: Credit will be granted for only one of THEA 421, THEA 420.
Prerequisite(s): All of THEA 322, THEA 324, THEA 326.

THEA 422 Units: 1.5 Hours: 0-4.5-0
Acting VI
A continuation of 421. Advanced work in special challenges in acting.
Note: Credit will be granted for only one of THEA 422, THEA 420.
Prerequisite(s): THEA 421.

THEA 423 Units: 1.5 Hours: 0-4.5-0
Voice and Speech in the Theatre III
Advanced work in voice production and speech for the stage.
Note: Credit will be granted for only one of THEA 423, THEA 450.
Prerequisite(s): All of THEA 322, THEA 324, THEA 326.

THEA 424 Units: 1.5 Hours: 0-4.5-0
Voice and Speech in the Theatre IV
A continuation of 423. Advanced work in voice production and speech for the stage.
Note: Credit will be granted for only one of THEA 424, THEA 450.
Prerequisite(s): THEA 423.

THEA 425 Units: 1.5 Hours: 0-4.5-0
Stage Movement III
Advanced techniques and improvisation in stage movement.
Note: Credit will be granted for only one of THEA 425, THEA 460.
Prerequisite(s): All of THEA 322, THEA 324, THEA 326.

THEA 426 Units: 1.5 Hours: 0-4.5-0
Stage Movement IV
A continuation of 425. Advanced technique and improvisation in stage movement.
Note: Credit will be granted for only one of THEA 426, THEA 460.
Prerequisite(s): THEA 425.

THEA 429 Units: 1.5
Theatre Performance
Supervised performance in department productions.
Note: May be taken more than once for credit to a maximum of 3 units; however, credit will be granted for no more than 6 units of any combination of THEA 329 and THEA 429.
Prerequisite(s): THEA 429.

THEA 431 Units: 1.5 Hours: 3-0-0
Directing III
Advanced work in stage direction.
Note: Credit will be granted for only one of THEA 431, THEA 430.
Prerequisite(s):
• THEA 332; and
• permission of the department.
Theatre Design for Production

Scenic Design for Production

Directing for Production

Prerequisite(s):
- THEA 331 and permission of the department.

THEA 433 Units: 1.5 or 3.0 Hours: 3-0-0
Directing for Production

Note: May be taken more than once for credit to a maximum of 6 units.

Prerequisite(s):
- THEA 332 and permission of the department.

THEA 435 Units: 3.0 Hours: 3-0-0
Applied Theatre II

Advanced study of the theory and practice of Applied Theatre.

Prerequisite(s):
- THEA 332 and THEA 335, or permission of the department.

THEA 453 Units: 1.5-6.0 Hours: 0-3-0 to 0-12-0
Scenic Design for Production

Design for department productions.

Note: May be taken more than once for credit to a maximum of 6 units.

Prerequisite(s):
- THEA 332 and permission of the department.

THEA 454 Units: 1.5 or 3.0 Hours: 0-3-0
Lighting Design for Production

Design for department productions.

Note: May be taken more than once for credit to a maximum of 6 units.

Prerequisite(s):
- THEA 349 and permission of the department.

THEA 465 Units: 1.5-6.0 Hours: 0-1.5-0 to 0-12-0
Costume Design for Production

Supervised design and production in the execution of costumes for theatre production.

Note: May be taken more than once for credit to a maximum of 6 units.

Prerequisite(s):
- THEA 331 and THEA 332, and permission of the department.

THEA 490 Units: 1.5 or 3.0
Graduating Project

Students in their final year may undertake a special project according to their areas of interest.

Prerequisite(s): Permission of the department.

THEA 499 Units: 1.5 or 3.0
Theatre Laboratory

Under the supervision of faculty, students will participate in projects that will include both their particular areas of interest and other aspects of the theatre.

Note: May be taken more than once for credit to a maximum of 6 units.

Prerequisite(s): Permission of the department.

VIRS Visiting International Research Studies

Interdisciplinary Programs

VIRS 301 Units: 6.0
Visiting International Research Studies: Education

Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.

Notes:
- May be taken more than once for credit to a maximum of 12.0 units.
- 0.0 fee units

Prerequisite(s):
- Status as a visiting international research student, and permission of the department, program, or school.

Grading: INP, COM, N, F.

VIRS 302 Units: 6.0
Visiting International Research Studies: Engineering

Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.

Notes:
- May be taken more than once for credit to a maximum of 12.0 units.
- 0.0 fee units

Prerequisite(s):
- Status as a visiting international research student, and permission of the department, program, or school.

Grading: INP, COM, N, F.

VIRS 303 Units: 6.0
Visiting International Research Studies: Fine Arts

Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.

Notes:
- May be taken more than once for credit to a maximum of 12.0 units.
- 0.0 fee units

Prerequisite(s):
- Status as a visiting international research student, and permission of the department, program, or school.

Grading: INP, COM, N, F.

VIRS 304 Units: 6.0
Visiting International Research Studies: Human and Social Development

Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.

Notes:
- May be taken more than once for credit to a maximum of 12.0 units.
- 0.0 fee units

Prerequisite(s):
- Status as a visiting international research student, and permission of the department, program, or school.

Grading: INP, COM, N, F.
VIRS 305 - WRIT 204B

WRIT 305 Units: 6.0
Visiting International Research Studies: Humanities
Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.
Notes:
• May be taken more than once for credit to a maximum of 12.0 units.
• 0.0 fee units
Prerequisite(s):
• Status as a visiting international research student; and
• permission of the department, program, or school.
Grading: INP, COM, N, F.

WRIT 306 Units: 6.0
Visiting International Research Studies: Law
Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.
Notes:
• May be taken more than once for credit to a maximum of 12.0 units.
• 0.0 fee units
Prerequisite(s):
• Status as a visiting international research student; and
• permission of the department, program, or school.
Grading: INP, COM, N, F.

WRIT 307 Units: 6.0
Visiting International Research Studies: Science
Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.
Notes:
• May be taken more than once for credit to a maximum of 12.0 units.
• 0.0 fee units
Prerequisite(s):
• Status as a visiting international research student; and
• permission of the department, program, or school.
Grading: INP, COM, N, F.

WRIT 308 Units: 6.0
Visiting International Research Studies: Social Sciences
Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.
Notes:
• May be taken more than once for credit to a maximum of 12.0 units.
• 0.0 fee units
Prerequisite(s):
• Status as a visiting international research student; and
• permission of the department, program, or school.
Grading: INP, COM, N, F.

WRIT 309 Units: 6.0
Visiting International Research Studies: Peter B. Gustavson School of Business
Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.
Notes:
• May be taken more than once for credit to a maximum of 12.0 units.
• 0.0 fee units
Prerequisite(s):
• Status as a visiting international research student; and
• permission of the department, program, or school.
Grading: INP, COM, N, F.

WRIT 204A Units: 1.5 Hours: 1-2-0
Formerly part of WRIT 202
Introduction to Creative Nonfiction Workshop
A lecture and seminar in the writing and workshop of creative nonfiction.
Note: Credit will be granted for only one of WRIT 204A, WRIT 204, CW 204.
Prerequisite(s):
• A minimum grade of B in WRIT 100 or CW 100E; and
• permission of the Department.

WRIT 204B Units: 1.5 Hours: 0-3-0
Formerly part of WRIT 204
Creative Nonfiction Workshop
A workshop in the writing of creative nonfiction.
Note: Credit will be granted for only one of WRIT 204B, WRIT 204.
Prerequisite(s): WRIT 204A.

WRIT 100 Units: 3.0 Hours: 3-0-0
Introduction to Writing
A non-historical survey of the basic structures in poetry, playwriting, screenwriting, creative nonfiction and fiction that involves the students in the writing and criticism of compositions in all five genres.
Note: Credit will be granted for only one of WRIT 100, CW 100.

WRIT 102 Units: 1.5 Hours: 3-0-0
Introduction to Professional Nonfiction
Introduces students to the theory and practice of journalism, as well as media history and analysis.
Note: Credit will be granted for only one of WRIT 102, WRIT 101, WRIT 103, WRIT 104.

WRIT 109 Units: 1.5 Hours: 3-0-0
The Writer's World in Books and Film
This lecture course, which is open to students in all faculties, explores a selection of authors and filmmakers through an analysis of their writing in various genres and a study of films that show us their working methods.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Open to students with credit in WRIT 109 if taken prior to May 2019.

WRIT 120 Units: 1.5 Hours: 3-0-0
Writing for the Arts
An introduction to the forms and techniques of non-academic composition and writing for a general audience about music, theatre, visual arts, literature, film and other cultural media.

WRIT 140 Units: 1.5 Hours: 3-0-0
Elements of Style in Creative Writing
Introduction to grammatical analysis and the norms of standard written English, designed to support the writing of poetry, prose and scripts.
Note: This course does not satisfy the Academic Writing Requirement.

WRIT 201A Units: 1.5 Hours: 1-2-0
Formerly part of WRIT 201
Introduction to Poetry Workshop
A lecture and seminar in the writing and workshop of poetry.
Note: Credit will be granted for only one of WRIT 201A, WRIT 201, CW 201.
Prerequisite(s):
• Minimum grade of B in either of: WRIT 100 or CW 100E; and
• permission of the Department.

WRIT 201B Units: 1.5 Hours: 0-3-0
Formerly part of WRIT 201
Poetry Workshop
A workshop in the writing of poetry.
Note: Credit will be granted for only one of WRIT 201B, WRIT 201, CW 201.
Prerequisite(s): WRIT 201A.
<table>
<thead>
<tr>
<th>COURSE LISTINGS</th>
<th>WRIT 215 - WRIT 316</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WRIT 215</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Journalism</td>
<td>The theory and practice of journalism in Canada with an emphasis on local news beat writing.</td>
</tr>
<tr>
<td><strong>WRIT 218A</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Formerly part of WRIT 218</td>
<td>Introduction to Screenwriting Workshop</td>
</tr>
<tr>
<td></td>
<td>A lecture and seminar in the writing and workshopping of screenwriting.</td>
</tr>
<tr>
<td><strong>WRIT 218B</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Formerly part of WRIT 218</td>
<td>Screenwriting Workshop</td>
</tr>
<tr>
<td></td>
<td>A workshop in writing for the screen.</td>
</tr>
<tr>
<td><strong>WRIT 300</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Narrative and Mythic Structure in Film Writing</td>
<td>A survey course of global cinema examining archetypal and mythic structure in classical narrative film writing.</td>
</tr>
<tr>
<td><strong>WRIT 302</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Special Study in Craft</td>
<td>A workshop/seminar in which students will focus on particular elements of writing applicable to more than one genre.</td>
</tr>
<tr>
<td><strong>WRIT 303</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Poetry Workshop</td>
<td>A workshop in the writing of poetry.</td>
</tr>
<tr>
<td><strong>WRIT 304</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Fiction Workshop</td>
<td>A workshop in the writing of fiction.</td>
</tr>
<tr>
<td><strong>WRIT 305</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Playwriting Workshop</td>
<td>A workshop in the writing of drama for the stage.</td>
</tr>
<tr>
<td><strong>WRIT 306</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Digital Publishing</td>
<td>A lecture and laboratory course in the theory and practice of digital publishing.</td>
</tr>
<tr>
<td><strong>WRIT 307</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Basic Forms and Techniques in Poetry</td>
<td>A lecture course surveying the functions of specific poetic techniques in a representative group of poems. Aspects of poetics discussed will include prosody, sound patterns, diction and figurative language.</td>
</tr>
<tr>
<td><strong>WRIT 308</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Non-Traditional and Experimental Forms and Techniques in Poetry</td>
<td>A lecture and discussion course surveying forms and techniques in non-traditional and experimental structures in poetry. Topics include world poetry and various historical and emerging avant gardes.</td>
</tr>
<tr>
<td><strong>WRIT 309</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Basic Forms and Techniques in Short Fiction</td>
<td>A lecture course surveying the structural composition and the function of technique in a representative group of narrative prose works. Aspects of narrative discussed will include: theme, point of view, scenic structure, role of narrator, metaphor, diction, plot and dialogue.</td>
</tr>
<tr>
<td><strong>WRIT 310</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Basic Forms and Techniques in the Novel</td>
<td>A lecture course surveying the structural composition and the function of techniques in a representative group of novels and novellas. Emphasis will be placed upon form and voice, as well as upon their relationship with such other elements of narrative as plot, character development, scene development and theme.</td>
</tr>
<tr>
<td><strong>WRIT 311</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Structure in Stage Drama</td>
<td>A lecture course surveying the structural characteristics of stage drama.</td>
</tr>
<tr>
<td><strong>WRIT 312</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Structure in Cinema and Television Drama</td>
<td>A lecture course surveying the structural characteristics of screen drama, making use of published film and television scripts, and of actual films.</td>
</tr>
<tr>
<td><strong>WRIT 313</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Recurrent Themes</td>
<td>A lecture course surveying recurrent themes in film and/or English literature and in other literatures in translation.</td>
</tr>
<tr>
<td><strong>WRIT 314</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Changing Perspectives</td>
<td>A lecture course surveying the different ways in which writers have tackled similar subject matter, taking its material from film scripts and/or English literature and other literature in translation.</td>
</tr>
<tr>
<td><strong>WRIT 315</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Advanced Journalism</td>
<td>A lecture/seminar course in the techniques of investigative news-gathering and feature writing.</td>
</tr>
<tr>
<td><strong>WRIT 316</strong></td>
<td>Units: 1.5</td>
</tr>
<tr>
<td>Creative Nonfiction Workshop</td>
<td>A workshop in the writing of creative nonfiction.</td>
</tr>
</tbody>
</table>
WRIT 318  Units: 1.5  Hours: 0-3-0
Screenwriting Workshop
A workshop in writing for the screen.
Note: May be taken more than once for credit to a maximum of 3 units.
Prerequisite(s): • A minimum grade of B- in either of: WRIT 218 or WRIT 218B; or
• permission of the Department.

WRIT 319  Units: 1.5  Hours: 3-0-0
Studies in the Graphic Novel
A lecture course surveying graphic novels.
Note: Credit will be granted for only one of WRIT 319 or WRIT 410 if taken in the same topic.
Prerequisite(s): Minimum second-year standing.

WRIT 320  Units: 1.5  Hours: 3-0-1
Writing and Film Production Workshop
A workshop and seminar, focusing on teamwork in the development of screenplays into short motion pictures.
Prerequisite(s): • A minimum grade of B- in either of: WRIT 218 or WRIT 218B; or
• permission of the Department.

WRIT 321  Units: 1.5  Hours: 3-0-0
Issues in Journalism
An exploration of contemporary topics and techniques in journalism and the media.
Notes:
• Credit will be granted for only one of WRIT 321, WRIT 317 (if taken in Sep 1998 - Dec 1999).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.
Prerequisite(s): Minimum second-year standing.

WRIT 322  Units: 1.5  Hours: 3-0-1
Magazine Publishing
An introduction to the theory, craft and business of writing, editing and designing magazine stories for print and electronic publication.
Note: Credit will be granted for only one of WRIT 322, WRIT 216.
Prerequisite(s): Minimum second-year standing.

WRIT 323  Units: 1.5  Hours: 3-0-0
Writing for TV
Writing TV pilots and serialized dramas for broadcast, streaming and the web.
Prerequisite(s): Minimum second-year standing.

WRIT 324  Units: 1.5  Hours: 2-1-0
Writing Interactive Narrative
A workshop/seminar in writing for digital media, hyper-literature, video games, interactive installations and experiences.
Prerequisite(s): • 3 units from WRIT 201, WRIT 202, WRIT 203, WRIT 204, WRIT 215, WRIT 218, WRIT 322, WRIT 326; or
• permission of the department.

WRIT 325  Units: 1.5  Hours: 3-0-1
Writing for Theatrical Production Workshop
A workshop and seminar, focusing on bringing a script from the page to the stage and including a staged reading by students.
Prerequisite(s): • A minimum grade of B- in either of: WRIT 203B or WRIT 203; or
• permission of department.

WRIT 326  Units: 1.5  Hours: 1-2-0
Media Production for Writers
A practice-based course for writers and artists that explores digital audio, photography and video production.
Prerequisite(s): Minimum second-year standing.

WRIT 328  Units: 1.5  Hours: 3-0-0
Humour Writing
Theories and practice of humour writing in a variety of genres and media.
Prerequisite(s): Minimum second-year standing.

WRIT 329  Units: 1.5  Hours: 3-0-0
International Film Writing
A lecture course surveying film writing in a representative group of films.
Prerequisite(s): Minimum second-year standing.

WRIT 330  Units: 1.5  Hours: 3-0-0
Media and Culture
A lecture course surveying theories and controversies in mass media and popular culture from a writer's perspective.
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
Prerequisite(s): Minimum second-year standing.

WRIT 331  Units: 1.5  Hours: 3-0-0
A Study of Narrative
A lecture course that studies the elements of narrative in fiction, drama, screenwriting, poetry and creative nonfiction.
Note: Credit will be granted for only one of WRIT 331, WRIT 231.
Prerequisite(s): Minimum second-year standing.

WRIT 335  Units: 1.5  Hours: 3-0-0
Forms and Techniques in Short Creative Nonfiction
A lecture course surveying short forms of creative nonfiction.
Prerequisite(s): Minimum second-year standing.

WRIT 336  Units: 1.5  Hours: 3-0-0
Forms and Techniques in Long Creative Nonfiction
A lecture course surveying long forms of creative nonfiction.
Prerequisite(s): Minimum second-year standing.

WRIT 340  Units: 1.5  Hours: 3-0-0
Revision and Editing
A lecture course exploring methods of revision to help students become their own best editors.
Note: Credit will be granted for only one of WRIT 340, WRIT 240.
Prerequisite(s): Minimum second-year standing.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WRIT 401</td>
<td>1.5</td>
<td>0-3-0</td>
<td>Advanced Poetry Workshop&lt;br&gt;A workshop in which the students are instructed in the writing of poetry.</td>
</tr>
<tr>
<td>WRIT 410</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Special Genres Lecture&lt;br&gt; An examination of craft in a particular genre, such as nature writing, travel narrative, the prose poem or children's literature.</td>
</tr>
<tr>
<td>WRIT 412</td>
<td>1.5</td>
<td>2-1-0</td>
<td>Recurrent Themes in Film&lt;br&gt;A lecture/seminar teaching the craft of writing about film through study of selected directors, film trends, and national cinemas.</td>
</tr>
<tr>
<td>WRIT 415</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Literary Adaptation&lt;br&gt;A lecture course in the theory and craft of adapting prose narratives for the screen or stage.</td>
</tr>
<tr>
<td>WRIT 416</td>
<td>1.5</td>
<td>0-3-0</td>
<td>Advanced Creative Nonfiction Workshop&lt;br&gt;A workshop in which the students are instructed in the writing of creative nonfiction.</td>
</tr>
<tr>
<td>WRIT 417</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Publishing Principles&lt;br&gt;A production course in the fundamentals of editing and selection of manuscript materials, and the principles and practice of design and production for print and digital publication.</td>
</tr>
<tr>
<td>WRIT 418</td>
<td>1.5</td>
<td>0-3-0</td>
<td>Advanced Screenwriting Workshop&lt;br&gt;A workshop in writing for the screen.</td>
</tr>
<tr>
<td>WRIT 420</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Film Writing and Production&lt;br&gt;An advanced narrative film writing and the techniques of film production. Focuses on script analysis, screen-directing technique and film production.</td>
</tr>
<tr>
<td>WRIT 440</td>
<td>1.5</td>
<td>3-0-0</td>
<td>The Writing Business&lt;br&gt;A lecture course that prepares students for careers as writers.</td>
</tr>
<tr>
<td>WRIT 490</td>
<td>3.0</td>
<td></td>
<td>Directed Studies in Writing&lt;br&gt;Granted under special circumstances only. Under the supervision of a full-time faculty member and with the approval of the Chair of the department for work which can not be completed as part of a regular course.</td>
</tr>
<tr>
<td>WRIT 491</td>
<td>1.5</td>
<td></td>
<td>Directed Studies in Writing&lt;br&gt;Granted under special circumstances only. Under the supervision of a full-time faculty member and with the approval of the Chair of the department for work which can not be completed as part of a regular course.</td>
</tr>
</tbody>
</table>