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 348. A list of the course abbreviations and their corresponding subject areas is presented on page 351.

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

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<td>CYC</td>
<td>Child and Youth Care</td>
<td>School of Child and Youth Care</td>
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<td>Child and Youth Care International</td>
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<td>Disability Studies</td>
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<td>ENGL</td>
<td>English Department of English</td>
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<td>French Department of French</td>
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<td>GNDR</td>
<td>Gender Studies Department of Gender Studies</td>
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<td>GMST</td>
<td>Germanic Studies Department of Germanic and Slavic Studies</td>
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<td>GRS</td>
<td>Greek and Roman Studies Department of Greek and Roman Studies</td>
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<td>ITAL</td>
<td>Italian Department of Hispanic and Italian Studies</td>
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<td>Latin American Studies Latin American Studies Program</td>
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### Faculty of Law

| LAW   | Law                                               |

### Faculty of Science

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<th>Astronomy Department of Physics and Astronomy</th>
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<td>EOS</td>
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<td>MATH</td>
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### Interdisciplinary Programs

| ACAN | Arts of Canada | Program in the Arts of Canada |
| CS | Canadian Studies | Diploma Program in Canadian Studies |
| EUS | European Studies | Political Science |
| HDCC | Human Dimensions of Climate Change |
| HS | Health and Society |
| IET | Intercultural Education | Diploma in Intercultural Education |
| IS | Indigenous Studies | Program in Indigenous Studies |
| SJS | Social Justice Studies |
| TS | Technology and Society |
| VIRS | Visiting International Research Studies |

### Peter B. Gustavson School of Business

<p>| COM | Commerce |
| ENT | Entrepreneurship |
| IB | International Business |
| SMGT | Service Management |</p>
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History ..................................................................................................................... HSTR
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Human Dimensions of Climate Change ................................................................ HDCC
Interdisciplinary Programs
Humanities .............................................................................................................. HUMA
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Indigenous Community-based Child and Youth Care ........................................ CYCB
Faculty of Human and Social Development
Indigenous Education ............................................................................................ IED
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Indigenous Governance ......................................................................................... IGOV
Faculty of Human and Social Development
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Indigenous Studies ................................................................................................ IS
Interdisciplinary Programs
Intercultural Education ........................................................................................ IET
Interdisciplinary Programs
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Faculty of Education
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Peter B. Gustavson School of Business
International Health Studies ................................................................................... INTS
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Latin ......................................................................................................................... LATI
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Latin American Studies .......................................................................................... LAS
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Law .......................................................................................................................... LAW
Faculty of Law
Linguistics .............................................................................................................. LING
Faculty of Humanities
Marine Science ....................................................................................................... MRNE
Faculty of Science
Mathematics ......................................................................................................... MATH
Faculty of Science
Mechanical Engineering ....................................................................................... MECH
Faculty of Engineering
Medical Science .................................................................................................... MEDS
Division of Medical Sciences
Medieval Studies .................................................................................................... MEDI
Faculty of Humanities
Mediterranean Studies ............................................................................................ MEST
Faculty of Humanities
Microbiology ........................................................................................................... MICR
Faculty of Science
Music ....................................................................................................................... MUS
Faculty of Fine Arts
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Faculty of Humanities
Physics .................................................................................................................... PHYS
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Public Administration .......................................................................................... ADMN
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Religious Studies .................................................................................................... RS
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Science .................................................................................................................... SCIE
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Service Management ............................................................................................. SMGT
Peter B. Gustavson School of Business
Slavic Studies .......................................................................................................... SLST
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Faculty of Engineering
Spanish................................................................................................................................... SPAN
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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
COURSES OF INSTRUCTION

Sample Course Name

SAMP 101

Units: 1.5

Hours: 3-0-1

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). Three numbers are used for course number plus a letter as appropriate. The first number indicates the year level (0 for university-level upgrading, 1 to 4 for undergraduate level, 5 and 6 for graduate level, 7 for Education Professional Year and 8 for co-op work terms). See page 249 for the subject area corresponding to the course abbreviation.

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.

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

Grading
Courses that are not graded using standard letter grades will include the alternative classifications for evaluation. See page 38 for an explanation of grading abbreviations.

Course descriptions do not include information on when courses will be offered. That information is available online 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  
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: 2-1

**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 definition 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 the 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 Canadian'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, 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  
**Compensation and Labour Relations**
Compensation issues include: determining equitable and fair pay; external equity in job evaluation; measuring and rewarding performance; employee health and time off; benefits in compensating employees; and pension and retirement benefits. Labour relations issues include: negotiating compensation issues; discipline and grievance; and developing a collective agreement.  
**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 logics, 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.  
**Prerequisite(s):** One of ADMN 310, ADMN 403, ECON 103, ECON 103C, ECON 180, ECON 201.

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 law and legal issues which arise in relation to local government activities and how to read case law and legislation.  
**Note:** Credit will be granted for only one of ADMN 446, ADMN 470 (if taken in the same topic).

ADMN 462 Units: 1.5  
**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 465 Units: 1.5  
**Local Government Policy**
An integrated analysis of selected local government policy problems drawing on urban and regional economics, local government law and the understanding of local government structure and operations. Includes how to analyze problems, assess response options and prepare policy recommendations within the political and administrative framework of local government. Topics selected for examination will vary.  
**Note:** Credit will be granted for only one of ADMN 465, ADMN 420.  
**Prerequisite(s):**  
- All of ADMN 423, ADMN 445, ADMN 542; or  
- permission of the school.

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, vision and values 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 411, ADMN 412, ADMN 470 (if taken in the same topic), ADMN 577.

ADMN 478 Units: 1.5  
**European Union Urban Region Policies**
Also: ADMN 578  
Evaluates 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  
**European Border Region Policies**
Also: ADMN 579  
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.
**AE 103A - AE 402**

### Art Education

#### Department of Curriculum and Instruction

#### Faculty of Education

Studio-based AE courses are normally subject to limited enrolment because of space and equipment needs. Courses offered by the Faculty of Education are also found under the following course codes: AE, ED-0, ED-P, EDIC, EPHE, IA, IED, IQ, ME.

<table>
<thead>
<tr>
<th>AE 103A</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<td>Formerly: part of 103</td>
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**Introduction to Art Education I**

A foundation course for those interested in teaching art in school or community settings. Working in various studio activities, students will build knowledge and skill in studio art while considering how these experiences may be adapted for young learners. Art education topics include artistic development, critical and cultural perspectives on art, and teaching methodologies.

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

<table>
<thead>
<tr>
<th>AE 103B</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<tbody>
<tr>
<td>Formerly: part of 103</td>
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**Introduction to Art Education II**

A continuing investigation of studio processes and art concepts as well as methods of instruction appropriate to children and youth in classroom and community settings.

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

<table>
<thead>
<tr>
<th>AE 200</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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**Design**

Creative problem solving through art. A studio exploration of the elements and principles of art, media and processes, and the development of ideas in fine and applied art. Consideration is given to the ways in which this theory and practical experience can be applied in a variety of teaching and learning contexts.

<table>
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<tr>
<th>AE 201</th>
<th>Units: 1.5</th>
<th>Hours: 3-1</th>
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</table>

**Image Development**

A survey of methods and practices of innovative image transformation and development of skills and techniques through studio exploration. Instructional applications in various learning environments are considered.

<table>
<thead>
<tr>
<th>AE 303A</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<tbody>
<tr>
<td>Formerly: part of 303</td>
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**Ceramics I**

Fundamental ceramics skills of hand-building, wheel throwing and glazing. The history of clay and study of the principles of form. A projects-based studio course.

**Note:** Credit will be granted for only one of AE 303A, AE 303.
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
Note: 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 422
Advanced Digital Arts
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.
Note: Credit will be granted for only one of AE 422, AE 402J.
Prerequisite(s): AE 322.

AGEI
Aging
School of Public Health and Social Policy
Faculty of Human and Social Development

AGEI 472
Healthy Aging
Units: 1.5
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 aging will be examined.

AGEI 473
Chronic Disease and Ageing
Units: 1.5
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 support networks will be an important focus.

AHVS
Art History and Visual Studies
Department of Art History and Visual Studies
Faculty of Fine Arts
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.

AHVS 101
First-Year Seminar on Art, Images, Experience
Experiential introduction to the diverse contexts in which we encounter art and images today. Participants may engage in a variety of hands-on activities with art objects, meet with guests who use art and images in various professional contexts, and explore, in a small-group format, current issues pertaining to the study of art.
Note: Normally class size is limited.

AHVS 120
Formerly HA 120
Exploring World Art
An introductory survey of visual culture and artistic expressions from prehistory to the present. Students will learn the fundamentals of visual analysis to understand and appreciate the world’s art. Comprehension of the similarities that connect visual traditions around the globe, as well as understanding of cultural differences.
Note: Credit will be granted for only one of AHVS 120, HA 120.

AHVS 121
Formerly HA 121
Understanding Visual Communication
An examination of the impact of visual imagery on the lives of individuals and communities. Introduces the idea that images constitute a complex system of visual communication, giving essentials of visual analysis and interpretation. Content may include, advertising, branding and the internet, comics, video game imagery and traditional artistic forms.
Note: Credit will be granted for only one of AHVS 121, HA 121.

AHVS 200
Formerly HA 200, HA 310
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 - AHVS 300B

COURSE LISTINGS AHVS

AHVS 202  Units: 1.5  Hours: 3-0
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
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
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
Formerly: HA 230
Monuments of South and Southeast Asia
An introduction to Indigenous, 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
Formerly: HA 232
Sacred Form in South / Southeast Asian Art
An introduction to select forms and symbols in Buddhist and Hindu art in South and/or Southeast Asia. Focus may include figurative, geometric, informal and formal arts, in lasting and ephemeral materials. Will give students 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
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 Sofonisba Anguissola.
Note: Credit will be granted for only one of AHVS 234, HA 234.

AHVS 241  Units: 1.5  Hours: 3-0
Formerly: HA 241
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
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
Formerly: HA 260
Art Icons: Modern and Contemporary
An in-depth introduction to the life 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. Artists studied will 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
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
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 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 268, HA 284, HA 382A (if taken prior to Sep-Dec 1999).

AHVS 282  Units: 1.5 or 3.0  Hours: 3-0
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: 3-1
Formerly: part of HA 295, HA 295A
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/screening and a one hour tutorial a week.
Note: Credit will be granted for only one of AHVS 295A, HA 295, HA 295A.

AHVS 295B  Units: 1.5  Hours: 3-1
Formerly: part of 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 three hour lecture/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
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
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.
<table>
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<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
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</table>
| **AHVS 300C** | 1.5 | 3-0 | **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 301A** | 1.5 | 3-0 | **Making 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. |
| **AHVS 301B** | 1.5 | 3-0 | **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. |
| **AHVS 310D** | 1.5 | 3-0 | **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 from Robert Smithson, Walter de Maria, Ana Mendieta, Andy Goldsworthy, Alice Aycock. |
| **AHVS 311A** | 1.5 | 3-0 | **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. |
| **AHVS 311B** | 1.5 | 3-0 | **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. |
| **AHVS 311C** | 1.5 | 3-0 | **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. |
| **AHVS 311D** | 1.5 | 3-0 | **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 326 - Units: 1.5 - Hours: 3-0
Formerly: HA 326
Early Medieval Art
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 - Units: 1.5 - Hours: 3-0
Formerly: HA 328
Gothic Art and Architecture
An introductory survey of the art and architecture of western Europe from the reconstruction 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 329 - Units: 1.5 - Hours: 3-0
Formerly: HA 329
Medieval Households: People and Possessions
Explores the furniture, fixtures, furnishings and tapestries in the medieval home. May include objects and the life course, spaces and everyday life, gender and the home.
Note: Credit will be granted for only one of AHVS 329, HA 329.

AHVS 330A - Units: 1.5 - Hours: 3-0
Formerly: part of HA 330, HA 330A
Early Arts of South Asia
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 330A, HA 330, HA 330A.
- Normally to be offered in alternate years with AHVS 333A, AHVS 333B.

AHVS 330B - Units: 1.5 - Hours: 3-0
Formerly: part of HA 330, HA 330B
Later Arts of South Asia
A survey of the arts of South Asia, including the Himalayan region and Tibet, from the eighth century up 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 - Units: 1.5 - Hours: 3-0
Formerly: HA 330C
The Body in Indian Art
Explores the representation of the human body ranging from the erotic to the spiritual in Hindu and Buddhist art. Case studies include sculpture, painting, film, poetry and myth.
Note: Credit will be granted for only one of AHVS 330C, HA 330C, HA 392 (if taken in the same topic).

AHVS 332A - Units: 1.5 - Hours: 3-0
Formerly: HA 332A
Bollywood Bound: Popular Visual Culture in India, 1950s to the Present
Through the media of photography and film, popular contemporary visual cultures of India are examined. 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 - Units: 1.5 - Hours: 3-0
Formerly: HA 332B
Bollywood Global: Popular Visual Culture in the Indian Diaspora, 1980s to the Present
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 1980s 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 - Units: 1.5 - Hours: 3-0
Formerly: part of HA 333, HA 333A
Early Arts of Southeast Asia
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 Islamic cultures will be discussed with attention to gender and histrionography. 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 330.

AHVS 333B - Units: 1.5 - Hours: 3-0
Formerly: part of HA 333, HA 333B
Later Arts of Southeast Asia
Case studies in the arts of Southeast Asia, from the arrival of Islam through the colonial period 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 334C - Units: 1.5 - Hours: 3-0
Formerly: HA 334C
Michelangelo and Leonardo
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 334C, HA 341C, HA 341C.

AHVS 337 - Units: 1.5 - Hours: 3-0
Formerly: HA 337
Special Topics in Contemporary Asian Art
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 338 - Units: 1.5 - Hours: 3-0
Formerly: HA 338
Special Topics in Premodern Asian Art
An examination of themes and issues in premodern Asian art through case-studies in specific regional and/or temporal contexts. Topic: Popular Prints in China and Japan.
Notes:
- Credit will be granted for only one of AHVS 338, HA 338 (if taken in the same topic).
- May be taken more than once for credit in different topics.

AHVS 339 - Units: 1.5 - Hours: 3-0
Formerly: HA 339
The Global Renaissance
Thematic investigation of artistic exchange between Europe, Asia, and the Americas during the 16th c. in the context of emerging globalization and nation states.
Note: Credit will be granted for only one of AHVS 339, HA 339, HA 339B.

AHVS 341A - Units: 1.5 - Hours: 3-0
Formerly: HA 341A
Art in Renaissance Florence
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 342A - Units: 1.5 - Hours: 3-0
Formerly: HA 342A
Baroque Art in Italy 1550-1700
Thematic investigation of painting, sculpture, and architecture in Italy during the Baroque, 1550-1700. Artists to be considered include Caravaggio, The Carracci, Remini, Artemisia Gentileschi, Pietro da Cortona and Borromini.
Note: Credit will be granted for only one of AHVS 342A, HA 342, HA 342A.
AHVS 342B  Units: 1.5  Hours: 3-0  
Formerly: HA 342B  
Experiencing Baroque Painting  

Note: Credit will be granted for only one of AHVS 342B, HA 342, HA 342B

AHVS 343A  Units: 1.5  Hours: 3-0  
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 art 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  Units: 1.5  Hours: 3-0  
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 345  Units: 1.5  Hours: 3-0  
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  Units: 1.5  Hours: 3-0  
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, spectacles, 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  Units: 1.5  Hours: 3-0  
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  Units: 1.5  Hours: 3-0  
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  Units: 1.5  Hours: 3-0  
Formerly: HA 351A  
Painting in Medieval Islam  

Note: Credit will be granted for only one of AHVS 351A, HA 351A.

AHVS 351B  Units: 1.5  Hours: 3-0  
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  Units: 1.5  Hours: 3-0  
Formerly: half of HA 351, 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  Units: 1.5  Hours: 3-0  
Formerly: half of HA 351, 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  Units: 1.5  Hours: 3-0  
Formerly: HA 355A  
Egypt: Old Kingdom Arts  
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  Units: 1.5  Hours: 3-0  
Formerly: HA 355B  
Egypt: New Kingdom Arts and Beyond  
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  Units: 1.5  Hours: 3-0  
Formerly: half of HA 353, 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  Units: 1.5  Hours: 3-0  
Formerly: half of HA 353, 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  Units: 1.5  Hours: 3-0  
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  Units: 1.5  Hours: 3-0  
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.
<table>
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<tr>
<th>Course Code</th>
<th>Units</th>
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<tr>
<td>AHVS 362B</td>
<td>1.5</td>
<td>3-0</td>
<td>Art in Europe and North America: 1945 to Today</td>
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<td>AHVS 362B</td>
<td>1.5</td>
<td>3-0</td>
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<tr>
<td>AHVS 363</td>
<td>1.5</td>
<td>3-0</td>
<td>The Cinema and Modern Art Movements</td>
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<td>AHVS 364</td>
<td>1.5</td>
<td>3-0</td>
<td>Documentary Film</td>
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<td>AHVS 365</td>
<td>1.5</td>
<td>3-0</td>
<td>Experimental Film</td>
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<tr>
<td>AHVS 367</td>
<td>1.5</td>
<td>2-1</td>
<td>History in Cinema</td>
</tr>
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<td>AHVS 368B</td>
<td>1.5</td>
<td>3-0</td>
<td>Modern and Contemporary Canadian Art</td>
</tr>
<tr>
<td>AHVS 369</td>
<td>1.5</td>
<td>3-0</td>
<td>History of Photography</td>
</tr>
<tr>
<td>AHVS 370A</td>
<td>1.5</td>
<td>3-0</td>
<td>Popular Film and Cultural Theory</td>
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<td>AHVS 370B</td>
<td>1.5</td>
<td>3-0</td>
<td>Hollywood Genres</td>
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<td>AHVS 370C</td>
<td>1.5</td>
<td>3-0</td>
<td>Horror Cinema</td>
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<tr>
<td>AHVS 370D</td>
<td>1.5</td>
<td>3-0</td>
<td>Canadian Film</td>
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<td>AHVS 372A</td>
<td>1.5</td>
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<td>Chinese Art and Architecture</td>
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<td>AHVS 373A</td>
<td>1.5</td>
<td>3-0</td>
<td>Japanese Art and Architecture</td>
</tr>
<tr>
<td>AHVS 378A</td>
<td>1.5</td>
<td>3-0</td>
<td>Indigenous Arts: Arctic, Subarctic</td>
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</table>
AHVS 382B - AHVS 398B

AHVS 382B  Units: 1.5  Hours: 3-0
Formerly: HA 382B

Indigenous Arts: Southwest, California, Great Basin
An introduction to arts of the indigenous peoples of the Southwest, California, and the Great Basin. Examines artistic expression from earliest known art works to the present. Explores types and styles of art works; cultural contexts; relationships between artistic expression and environment; spirituality; and responses of artists to contact with non-native peoples.
Note: Credit will be granted for only one of AHVS 382B, HA 382B, or AHVS 382C.

AHVS 382C  Units: 1.5  Hours: 3-0
Formerly: HA 382C

Indigenous Arts: Plains, Plateau, Woodlands, Southeast
An introduction to arts of the indigenous peoples of the Plains, Plateau, Woodlands and Southeast. Examines artistic expression from earliest known art works to the present. Explores types and styles of art works; cultural contexts; relationships between artistic expression and environment; spirituality; and responses of artists to contact with non-native peoples.
Note: Credit will be granted for only one of AHVS 382B, HA 382B, or AHVS 382C.

AHVS 383  Units: 1.5  Hours: 3-0
Formerly: HA 383

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  Units: 1.5  Hours: 3-0

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  Units: 1.5  Hours: 3-0

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  Units: 1.5  Hours: 3-0
Formerly: HA 384

Northwest Coast Indigenous Arts and Colonization
Investigation of NWC indigenous artists’ 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 386  Units: 1.5  Hours: 3-0
Formerly: HA 386

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  Units: 1.5  Hours: 3-0
Formerly: HA 387, HA 387A

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 387A.
Recommendation(s): AHVS 223 or HA 223 recommended prior to AHVS 387A.

AHVS 387B  Units: 1.5  Hours: 3-0
Formerly: HA 387, HA 387B

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 387B, HA 387.

AHVS 390  Units: 1.5  Hours: 3-0
Formerly: HA 390

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.
- permission of the department.

AHVS 392  Units: 1.5 or 3.0  Hours: 3-0
Formerly: HA 392

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  Units: 1.5  Hours: 3-0
Formerly: HA 397

Impressionism: A Social History
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  Units: 1.5  Hours: 3-0

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 Impressionist 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  Units: 1.5  Hours: 3-0
Formerly: HA 398A

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 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 398A, HA 398A.

AHVS 398B  Units: 1.5  Hours: 3-0
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.
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<tr>
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<th>Units</th>
<th>Hours</th>
<th>Description</th>
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<tbody>
<tr>
<td>AHVS 411</td>
<td>1.5</td>
<td>3-0</td>
<td>Seminar in World Histories of Art</td>
</tr>
<tr>
<td>AHVS 417</td>
<td>1.5</td>
<td>3-0</td>
<td>Seminar in Early Modern Art, c. 1500-1750</td>
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<td>AHVS 449</td>
<td>1.5</td>
<td>3-0</td>
<td>Seminar in Orientalism in Art and Architecture</td>
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<td>AHVS 450</td>
<td>1.5</td>
<td>3-0</td>
<td>Seminar in Islamic Art and Civilization</td>
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<td>AHVS 451</td>
<td>1.5</td>
<td>3-0</td>
<td>Seminar in the Arts of Mughal India</td>
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<td>AHVS 453</td>
<td>1.5</td>
<td>3-0</td>
<td>Seminar in the Arts of Safavi Iran</td>
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<td>AHVS 460</td>
<td>1.5 or 3.0</td>
<td>3-0</td>
<td>Seminar in Modern Art I (1870-1945)</td>
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<td>1.5 or 3.0</td>
<td>3-0</td>
<td>Seminar in Modern Art II (1945-present)</td>
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<td>AHVS 464</td>
<td>1.5</td>
<td>3-0</td>
<td>Seminar in Contemporary Art</td>
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**Notes:**
- 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.

**COURSE LISTINGS AHVS**
AHVS 465 Units: 1.5 Hours: 3-0
Formerly: HA 465
Seminar in 19th- and/or 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.
Prerequisite(s):
• One of 223, 387A, 387B, HA 223, 387A, 387B; and
• Minimum fourth-year standing.

AHVS 478 Units: 1.5 Hours: 3-0
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 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
Formerly: HA 480
Seminar in Contemporary North American Indigenous Arts
An intensive study of selected aspects of 20th-century Native North American arts. Artists, regions and styles discussed will vary.
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
Formerly: HA 482
Seminar in Indigenous Arts
An intensive study of a selected aspect of Native North American, Pre-Columbian, African or Oceanic arts, or a comparative examination of a theme pertinent to Indigenous arts from more than one culture 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):
• One of AHVS 382A, AHVS 382B, AHVS 382C, AHVS 384, HA 382A, HA 382B, HA 382C, HA 384, ANTH 322, ANTH 333, ANTH 336, ANTH 338, EDCI 372, IS 372; and
• Minimum fourth-year standing.

AHVS 484 Units: 1.5 Hours: 3-0
Formerly: HA 484
Seminar in Contemporary Art: 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
Formerly: HA 486A
Museum Principles and Practices I: Communities, Curatorship, and Collections
Museums, their collections, and the knowledge they convey play a unique role in contemporary society. 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.
Note: Credit will be granted for only one of AHVS 486A, HA 486, HA 486A.

AHVS 486B Units: 1.5 Hours: 3-0
Formerly: HA 486B
Museum Principles and Practices II: Programming, Exhibitions, and Management
Exhibitions and public programs are the primary means by which museums share their collections and knowledge with communities. Explores the role and development of exhibitions and programs, with particular emphasis on public partnerships, audience development, and principles of design, implementation and evaluation. When offered in the distance format, the course will also address topics in museum management.
Note: Credit will be granted for only one of AHVS 486B, HA 486, HA 486B.

AHVS 487A Units: 1.5 Hours: 3-0
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
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
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
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.
AHVS 488D Units: 1.5 Hours: 3-0
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 utilized 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
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.
• 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
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
Formerly: HA 488K
Exhibition Design and Installation
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
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
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 museums 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
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
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
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
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
Formerly: HA 488V
Museums as Learning Environments
Examines the role of museums, galleries, interpretive centers 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 488U (if taken in the same topic), HA 488V (if taken in the same topic).
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488W  Units: 1.5  Hours: 3-0
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
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 critical 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
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
Formerly: HA 489A
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 489B  Units: 1.5  Hours: 3-0
Formerly: HA 489B
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 489B, HA 489B (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
Formerly: HA 489C
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
Formerly: HA 489D
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), chromochronology. 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
Formerly: HA 489E
Topics in Heritage Conservation
An intensive study of some special aspect or area of heritage conservation. Content may vary each year.
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 489F  Units: 1.5  Hours: 3-0
Formerly: HA 489F
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 489F, HA 489F.

AHVS 489G  Units: 1.5  Hours: 3-0
Formerly: HA 489G
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.

AHVS 489H  Units: 1.5  Hours: 3-0
Formerly: HA 489H
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 489H, HA 489H.
• Subject to differential fees; consult Fees for Undergraduate Programs.
AHVS 489J  Units: 1.5  Hours: 3-0
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:
•  Credit will be granted for only one of AHVS 489J, HA 489J.
•  Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 489K  Units: 1.5  Hours: 3-0
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
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):
•  Minimum third-year standing; and
•  declared Honours or Major in Art History and Visual Studies or admission to Diploma in Cultural Resource Management; and
•  permission of the department.
Grading: INP, COM, N, F

AHVS 492  Units: 1.5 or 3.0  Hours: 3-0
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
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
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.

AHVS 499  Units: 1.5  Hours: 3-0
Formerly: HA 499
Honours Seminar
Intended to instruct fourth-year honours students in problems and methodology of advanced research.
Note: Credit will be granted for only one of AHVS 499, HA 499.

ANTH
Anthropology
Department of Anthropology
Faculty of Social Sciences

ANTH 100  Units: 1.5  Hours: 3-1
Formerly: 100A, 100B
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
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
Formerly: 200A, 200B
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  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  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  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  Formerly, ANTH 316, ANTH 416  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  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  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 304  Units: 1.5  Hours: 3-0  Technology and Culture
Critical approaches to the anthropological study of technology. The focus may be on prehistoric or contemporary technology.
Prerequisite(s): ANTH 100 or ANTH 200.

ANTH 305  Units: 1.5  Hours: 3-0  Anthropology of the Arts
Critical approaches to the anthropological study of the visual arts of the 19th and 20th centuries using case study examples from a variety of geographical areas.
Prerequisite(s): ANTH 100 or ANTH 200.

ANTH 306  Units: 1.5  Hours: 3-0  Folklore in Contemporary Society
Anthropological analysis of oral traditions from a range of societies. The structure and functions of specific types of material. The relation of the study of folklore to other interests in anthropology.
Prerequisite(s): ANTH 100 or ANTH 200.

ANTH 307  Units: 1.5  Hours: 3-0  Anthropology of Children and Youth
An examination of current anthropological research on infants, children, and youth, with particular emphasis on young people as social actors and cultural producers.
Note: Credit will be granted for only one of ANTH 307, ANTH 390A, ANTH 393 (if taken in the same topic).
Prerequisite(s): ANTH 200.

ANTH 308  Units: 1.5  Hours: 3-0  Legality and Social Justice in Global Perspective
A cross-cultural analysis of concepts of justice and the construction of legality in a range of societies with varying degrees of complexity. Topics include contemporary initiatives aimed at achieving social justice internationally by drawing on indigenous concepts and structures in the restructuring of legality as it is practiced in industrial and post-industrial societies.
Note: Credit will be granted for only one of ANTH 308, ANTH 390A, ANTH 393 (if taken in the same topic).
Prerequisite(s):
• ANTH 100 or ANTH 200; or
• permission of the program.

ANTH 309  Units: 1.5  Hours: 3-0  Anthropology and Film and Video
Examination of theoretical and methodological approaches to visual anthropological research in film and video.
Note: Credit will be granted for only one of ANTH 309, ANTH 390 (if taken in the same topic), ANTH 409.
Prerequisite(s): ANTH 200.

ANTH 310  Units: 1.5  Hours: 3-0  Anthropological Approaches to Comparative Religion
Consideration of the various approaches to the study of religion and religious behaviour used by anthropologists. Comparative analysis of belief and ritual systems.
Prerequisite(s): One of ANTH 100, ANTH 200, ANTH 321.

ANTH 311  Units: 1.5  Hours: 3-0  Formerly, 211  Introduction to Engaged and Practicing Anthropology
An introduction to anthropologically-informed approaches to research engaged with finding solutions to practical problems of contemporary significance. Surveys applications of anthropological research to various fields such as public policy, environment, education, law, medicine, and heritage resource management. Discusses the burgeoning professional practice of anthropology outside academic institutions.
Note: Credit will be granted for only one of ANTH 311, ANTH 211.
Prerequisite(s): ANTH 100 or ANTH 200.

ANTH 312  Units: 1.5  Hours: 3-0  Formerly, 412  Introduction to Medical Anthropology
An introduction to the main themes and theoretical frameworks in medical anthropology, including applied medical anthropology, cultural construction of illness, and critical medical anthropology. Topics may include enduring cultural traditions of healing, the place of infectious diseases in human societies, contributions and critiques of biomedicine, medicalization, nutrition, global health campaigns, and the comparative study of medical systems.
Note: Credit will be granted for only one of ANTH 312, ANTH 412.
Prerequisite(s): One of ANTH 100, ANTH 200, ANTH 250.

ANTH 314  Units: 1.5  Hours: 3-0  Economic Anthropology
A comparative analysis of the social context of production, distribution and exchange systems in local and global contexts.
Notes:
• Credit will be granted for only one of ANTH 314, ANTH 393 (if taken in the same topic).
• Not open to students with credit in ANTH 405.
Prerequisite(s): Minimum second-year standing.

ANTH 315  Units: 1.5  Hours: 3-0  Formerly, 417  Living Technologies
Students interact with expert craftspersons to learn about the constraints and possibilities of various media (stone, clay and fibre) as well as the dimensions of choice and cultural significance that shape technology styles. Emphasis on material culture’s active role in the production of culture and in the making of human life experience.
Prerequisite(s):
• ANTH 246; and
• declared Honours or Major in Anthropology; or
• permission of the program.

ANTH 317  Units: 1.5  Hours: 3-0  Formerly, 417  Quantitative Methods in Anthropological Research
Formal methods of statistical analysis in Anthropology.
Note: Credit will be granted for only one of ANTH 317, ANTH 417.
Prerequisite(s):
• One of ANTH 200, ANTH 240, ANTH 250; and
• ANTH 260 or ANTH 316.
ANTH 318 Units: 1.5 Hours: 3-0
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
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
Anthropology of the Circumpolar Region
Discussion and analysis of the peoples of Europe. Topics may involve an in-depth examination of a number of important approaches to Eurasia.
Note: Credit will be granted for only one of ANTH 337, ANTH 391 (if taken in the same topic).
Prerequisite(s):
• ANTH 200; or
• permission of the program.

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

ANTH 332 Units: 1.5 Hours: 3-0
Anthropology of Europe
Discussion and analysis of the peoples of Europe. Topics may include folk cultures, migration, urbanization, industrialization, and the emergence of ethnicity and of nationalist movements.
Prerequisite(s):
• ANTH 200; or
• permission of the program.

ANTH 336 Units: 1.5 Hours: 3-0
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 337 Units: 1.5 Hours: 3-0
Anthropology of Eurasia
An exploration of the social experience and its aftermath in Eurasia. Analysis of the historical and political processes that shape this region, of cultural and social trends in selected countries and an overview of anthropological approaches to Eurasia.
Note: Credit will be granted for only one of ANTH 337, ANTH 391 (if taken in the same topic).
Prerequisite(s):
• ANTH 200; or
• permission of the program.

ANTH 338 Units: 1.5 Hours: 3-0
Anthropology of The Indigenous Peoples of British Columbia
An integrated description and analysis of the cultural history and current issues surrounding aboriginal peoples in British Columbia.
Note: Credit will be granted for only one of ANTH 338, ANTH 399A, ANTH 399B.
Prerequisite(s):
• ANTH 200; or
• permission of the program.

ANTH 339 Units: 1.5 Hours: 3-0
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).
• May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s):
• ANTH 240; and
• permission of the program.

ANTH 340 Units: 1.5 Hours: 3-0
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
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
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
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).
• May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s):
• ANTH 240; and
• permission of the program.

ANTH 346 Units: 1.5 Hours: 1.5
Archaeology of Holocene Africa
Explores the diverse lifeways that have characterized African societies of the last 10,000 years. Topics include the emergence of agriculture, complex societies, and the effects of global connections. Emphasizes how archaeologists approach reconstruction of the African past, and critical evaluation of archaeological interpretations.
Prerequisite(s):
• ANTH 240.

ANTH 347 Units: 1.5 Hours: 3-0
Stone Age of Africa
An overview of the Stone Age prehistory of Africa, from the earliest stone tools to the beginnings of agriculture, involving an in-depth examination of a number of important archaeological sites.
Note: Credit will be granted for only one of ANTH 347, ANTH 390, ANTH 392 (if taken in the same topic).
Prerequisite(s):
• ANTH 240.

ANTH 348 Units: 1.5 Hours: 3-0
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
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 - ANTH 391**

**ANTH 350**  
Units: 1.5  
Hours: 3-0  
Formerly: 350A  
Primate Behavioural Ecology  
Fundamentals of primate behavioural ecology, including  
thoretical 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  
Formerly: 350B  
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  
Formerly: 451  
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  
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  
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  
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 250, BIOL 184, BIOL 190B,  
BIOL 230.

**ANTH 360**  
Units: 1.5  
Hours: 1-2  
Zoocroplalogy  
An introduction to the study of animal bones from  
anthropological 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  
Medieval Archaeology  
Introduction to the theory and practice of medieval  
anthropology, illustrated case studies and experimental  
anthropology. 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).  
Prerequisite(s): Minimum third-year standing.

**ANTH 362**  
Units: 1.5  
Hours: 3-0  
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  
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  
Anthropology of Reproduction  
A survey of contemporary anthropological research on  
human reproduction, including diversity in cultural  
meanings of childbirth 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 200.

**ANTH 367**  
Units: 1.5  
Hours: 3-0  
Heritage and Historical Archaeology Field Course  
Introduces students to the archaeological methods used in  
recording historic 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 380**  
Units: 1.5  
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 391**  
Units: 1.5  
Hours: 3-0*  
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*
Formerly: 390
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*
Formerly: 390
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*
Formerly: 390
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*
Formerly: 390
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*
Formerly: 390
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
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
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
Formerly part of 400
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
Formerly part of 400
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 401  Units: 1.5  Hours: 3-0
Also: ES 430
Environmental Anthropology
Investigates key themes at the intersection of anthropology and the environment, including issues like theories of place, nature/culture, local knowledge, globalization, indigeneity, power, and cultural change.
Note: Credit will be granted for only one of ANTH 401, ES 430.
Prerequisite(s):
• One of ANTH 200, ES 200 and ES 301, ES 200 and ES 321; or
• permission of the program.

ANTH 402  Units: 1.5  Hours: 3-0
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
Advanced Economic Anthropology
A seminar course that examines contemporary problems in economic anthropology and ethnoarchaeological 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
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
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 200 and ANTH 309.
Pre- or Corequisite(s): ANTH 305.

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

ANTH 433 Units: 1.5 Hours: 3-0
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
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
Archaeology 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
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
Advanced Topics in Human Osteology
Detailed examination of topics relating to the analysis of human skeletal remains. Topics may include: bioarchaeology, 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
Method and Theory in Bioarchaeology
A seminar course that discusses, in archaeological contexts, the methodological, theoretical and ethical issues involved in the study of human skeletal remains 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
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
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 336, ANTH 338, ANTH 340 strongly recommended prior to ANTH 460.

ANTH 481 Units: 1.5 Hours: 3-0
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
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
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
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 494 Units: 1.5 Hours: 3-0
Directed Studies in Anthropology: Biological Anthropology
Indtial study of specific research topics in biological anthropology with close collaboration and consent of the department and individual instructor.
Note: Credit will be granted for only one of ANTH 494, 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.
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 495 Units: 1.5 Hours: 3-0
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.
Note: 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 495, ANTH 491, ANTH 492, ANTH 493, ANTH 494.
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 499 Units: 1.5
Honours Seminar
Integration of current research in physical, social and cultural, linguistic and archaeological anthropology.
Prerequisite(s):
- Minimum fourth-year standing, and
- declared Honours in Anthropology.

ART
Visual Arts
Department of Visual Arts
Faculty of Fine Arts
Before admission to any 300-level art course, Visual Arts students should have completed a minimum of 12 units of out-of-department electives and their program requirements of 100- and 200-level art courses. Registration in upper-level courses is restricted to students majoring in Visual Arts.

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

ART 101E Units: 1.5 Hours: 0-3
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.
Note: ART (E) courses are offered only through the En’owkin Certificate Program in Indigenous Fine Arts.
Pre- or Corequisite(s): ART 100E.

ART 102 Units: 0.5 Hours: 0-1
Introduction to Shop Practices
Designed to provide students with knowledge and appreciation of safe practice in the shop area. Students will each participate in four labs of 3 hours in duration. Items covered will include basic WHMIS training, safe operation of power tools, and hand tools. Attendance at all labs and completion of projects is required.
Note: Transfer students may take this course concurrently with ART courses numbered 100 or higher, but must complete the course in their first year in the Visual Arts department.
Grading: COM, N, F.

ART 103 Units: 1.5 Hours: 0-3
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.
Note: 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
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.
Note: 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
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 the practices of contemporary photography and video arts. Students will explore a range of studio practices and theoretical issues.
Note: 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
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.
Note: 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
Exploring Drawing and Colour
Exponential 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
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.
Note: Open to non-visual arts students and available as an elective for Visual Arts students.

ART 117 Units: 1.5 Hours: 0-3
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 in observational drawing as a practice.
Note: Open to non-visual arts students and available as an elective for Visual Arts students.

ART 118 Units: 1.5 Hours: 0-3
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.
Note: Open to non-visual arts students and available as an elective for Visual Arts students.

ART 130E Units: 1.5 Hours: 0-3
Printmaking
An introductory course in printmaking techniques which will prepare the student for more advanced printmaking courses.
Note: 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
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.
Note: Open for non-visual arts students and available as an elective for Visual Arts students.

ART 150 Units: 1.5 Hours: 3-0
Introduction to Contemporary Art Theory: Practice and Criticism
A lecture course introducing the terms and concepts necessary for an understanding of contemporary art.
Note: Normally class size is limited.
ART 151  Units: 1.5  Hours: 3-0
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
Formerly: 101
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.
Prerequisite(s): ART 100 or ART 103.

ART 202  Units: 1.5  Hours: 0-3
Formerly: 200
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
Formerly: 110
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
Formerly: 210
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
Formerly: 120
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
Formerly: 220
Sculpture
A continuation of 221; students will continue to develop their study of contemporary sculptural practices, with an increasing focus on their 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): ART 120 or ART 221.

ART 241  Units: 1.5  Hours: 0-3
Formerly: 140
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
Formerly: 240
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: 0-3
Modernism and Postmodernism
A lecture course that will survey some conditions that distinguish modernism from postmodernism and consider pertinent theoretical positions.

ART 260  Units: 1.5  Hours: 0-3
Digital Media Arts
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 170 or ART 271.

ART 262  Units: 1.5  Hours: 0-3
Formerly: 260
Digital Media Arts
An extension of 261. Exploration of digital arts will be extended to animation, artist book design and 2 and 3D rendering. Computer programs relevant to the above will be introduced.
Notes:
• Credit will be granted for only one of ART 262, ART 260.
• Normally class size is limited.
Prerequisite(s): ART 160 or ART 261.

ART 271  Units: 1.5  Hours: 0-3
Formerly: 170
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 170 or ART 271.

ART 272  Units: 1.5  Hours: 0-3
Formerly: 270
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
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 200 or ART 202.

ART 306  Units: 6.0  Hours: 1.5-4.5
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 - ART 406

COURSE LISTINGS ART

ART 310 - Painting
Units: 3.0 Hours: 0-3
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 - Sculpture
Units: 3.0 Hours: 0-3
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
• ART 220 or ART 222.

ART 334 - Multi-Media Printmaking
Units: 3.0 Hours: 0-3
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 - Photography
Units: 3.0 Hours: 0-3
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 - Special Studies
Units: 1.5 or 3.0 Hours: 0-3
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 - Audain Studio Seminar
Units: 1.5 or 3.0 Hours: 0-3
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 - Visiting Artist Talk Series
Units: 1.5 Hours: 3-0
An introduction to contemporary art through presentations by practising artists from Canada and abroad working and exhibiting in the field today.
Note: May be taken more than once for credit with permission of the department to a maximum of 3 units.
Grading: COM, N, F

ART 355 - Extended Media Practices
Units: 3.0 Hours: 0-3
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 355 is permitted, normally with two different instructors. Normally class size is limited.
Prerequisite(s):
• ART 150 and
• ART 260 or ART 262.

ART 360 - Visual Structures in the Imaginative Realm I
Units: 3.0 Hours: 0-3
An advanced course in digital video art. Relevant computer programs to capture and manipulate video will be used.
Notes:
• May be taken more than once for credit 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 - Digital Video Art
Units: 3.0 Hours: 0-3
Advanced course in digital video art. Relevant computer programs to capture and manipulate video will be used.
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 - Curatorial Direction
Units: 3.0 Hours: 0-3
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 390 - Directed Studies in Visual Arts
Units: 1.5 to 4.5
Directed Studies in Visual Arts
This course will be developed in consultation with the instructor and the Chair of the department.
Note: May be taken more than once for credit in different topics to a maximum of 9 units.
Prerequisite(s):
• Minimum third-year standing;
• permission of the department.

ART 395 - Visual Structures in the Imaginative Realm II
Units: 6.0 Hours: 1.5 - 4.5
Visual Structures in the Imaginative Realm II
Enhanced education for the creation of objects and images within a studio-centred context. Sculpture, painting and installation form core areas for creative research within a broad experimental approach. Cross-disciplinary knowledge and the relationship of studio production to the built environment will guide students towards working independently. Team taught by faculty from Visual Arts and other disciplines; includes seminar component.
Prerequisite(s):
• 9 units of 200-level Visual Arts courses; and
• permission of the department.

ART 401 - BFA Graduating Exhibition
Units: 3.0 Hours: 0-3
BFA Graduating Exhibition
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 - Studies in Drawing, Photo, Media and Interdisciplinary Practices
Units: 9.0 Hours: 1.5-7.5
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 - ASTR 101

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 advisor, 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 Major in Visual Arts; and
- permission of the department.

ART 492  Units: 6.0  Hours: 0-6  Advanced Studio I
Advanced Studio will give students time and opportunity to pursue studio practice within an intensive area. The course will involve individual studio practice and critique, group critique and seminar. Each section will be team taught, and may include one faculty member from the university at large. Students will choose a section based on topic, artistic direction and/or interests and media of the faculty team. Teams and topics will be announced each year prior to registration.

Note: May not be offered every year.

Prerequisite(s): 9 units of 300-level ART courses.

ART 493  Units: 9.0  Hours: 1.5-7.5  Advanced Studio II
Advanced Studio will give students time and opportunity to pursue studio practice within an intensive area. The course will involve individual studio practice and critique, group critique and seminar. Each section will be team taught, and may include one faculty member from the university at large. Students will choose a section based on topic, artistic direction and/or interests and media of the faculty team.

Note: May not be offered every year.

Prerequisite(s):
- 9 units of 300-level ART courses; and
- permission of the department.

ART 495  Units: 9.0  Hours: 1.5-7.5  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.

ARTS
Faculty of Humanities

ARTS 190  Units: 1.5  Individual Study
 Granted only by special permission of the Dean of Humanities, on recommendation of the department and only in situations involving extenuating circumstances, illness, accident or family affliction.

ARTS 290  Units: 1.5  Individual Study
 Granted only by special permission of the Dean of Humanities, on recommendation of the department and only in situations involving extenuating circumstances, illness, accident or family affliction.

ARTS 390  Units: 1.5  Individual Study
 Granted only by special permission of the Dean of Humanities, on recommendation of the department and only in situations involving extenuating circumstances, illness, accident or family affliction.

ASL 200A  Units: 1.5  Hours: 2-2  American Sign Language III
Continuation of 100B, 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

ASL 200B  Units: 1.5  Hours: 2-2  American Sign Language IV
Continuation of 200A. Develops vocabulary and appropriate signing registers as well as skills for role-shifting 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.

ASL 300A  Units: 1.5  Hours: 2-2  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 role-shifting and the refinement of expressive and receptive skills. Continues to expand the knowledge and understanding of Deaf culture.

Prerequisite(s): ASL 200B

ASL 300B  Units: 1.5  Hours: 2-2  American Sign Language VI
Continuation of 300A. 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 300A.

ASTR
Astronomy
Department of Physics and Astronomy
Faculty of Science

Courses offered by the Department of Physics and Astronomy are also found under the following course code: PHYS (Physics).

ASTR 101  Units: 1.5  Hours: 3-3  Formerly part of ASTR 120
Exploring the Night Sky
A general course designed for non-science students. A tour of the solar system: the nature and origins of planets and moons, comets, asteroids, and the sun. Discoveries of recent space exploration and the history of our changing views of our place in the universe. eclipses, seasons, climatic cycles, dangers posed by meteorite impacts. The possibility of extraterrestrial life. Practical work includes observations with campus telescopes.

Note: Credit will be granted for only one of ASTR 101, ASTR 120.
ASTR 102 Units: 1.5 Hours: 3-3
Formerly: part of ASTR 120
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 120.

ASTR 150 Units: 1.5 Hours: 3-3
Concepts in Modern Astronomy
Introduces some of the great ideas and concepts in modern astronomy, as well as the basic physical principles required to understand these concepts. Topics include: properties of the solar system, extrasolar planets, galaxies, expanding universe, big bang, origin of the elements, dark matter, dark energy, black holes, neutron stars.
Note: Credit will be granted for only one of ASTR 150, ASTR 200A.
Pre- or Corequisite(s):
• MATH 100 or MATH 109; and
• one of PHYS 110, PHYS 112, PHYS 120, PHYS 122; or
• permission of the department.

ASTR 201 Units: 1.5 Hours: 3-3
The Search for Life in the Universe
A general science course designed to be accessible to students not majoring in science. An overview of modern scientific thought on the possibility of life beyond Earth and the current research being done to find it; the likeliest locations of life in our Solar System; the hunt for planets around other stars; the search for extraterrestrial intelligence (SETI). Laboratories on alternate weeks; practical work includes observations with campus telescopes.
Prerequisite(s):
• Minimum second-year standing.

ASTR 250 Units: 1.5 Hours: 3-3
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 200B.
Prerequisite(s):
• MATH 101; and
• one of PHYS 110, PHYS 112, PHYS 120, PHYS 122; or
• permission of the department.
Recommendation(s):
• ASTR 150 recommended prior to ASTR 250.

ASTR 255 Units: 1.5 Hours: 3-0
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 covered 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):
• ASTR 200B or ASTR 250; and
• PHYS 215 and PHYS 216.

ASTR 303 Units: 1.5 Hours: 3-0
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):
• ASTR 200B or ASTR 250; and
• PHYS 215 and PHYS 216; and
• PHYS 217 or PHYS 317; or
• permission of the department.

ASTR 329 Units: 1.5 Hours: 0-6
Formerly: A29A
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
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; light transfer effects (e.g., fluorescence, charge exchange).
Prerequisite(s):
• ASTR 200B or ASTR 250; and
• PHYS 215 or PHYS 317; and
• PHYS 323 and PHYS 326.
Pre- or Corequisite(s):
• MATH 326 or MATH 346.
Recommendation(s):
• ASTR 303 strongly recommended prior to ASTR 403.

ASTR 404 Units: 1.5 Hours: 3-0
Introduction to Stellar Astrophysics
The structure and evolution of stars, stellar atmospheres, the production of stellar spectra, interstellar matter.
Prerequisite(s):
• ASTR 200B or ASTR 250; and
• PHYS 215 or PHYS 317; and
• PHYS 323 and PHYS 326.
Pre- or Corequisite(s):
• MATH 326 or MATH 346.

ASTR 405 Units: 1.5 Hours: 3-0
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 200B or ASTR 250; and
• MATH 326 or MATH 346; or
• permission of the department.
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
Biochemistry and Microbiology
Department of Biochemistry and Microbiology
Faculty of Science

BCMB 298 Units: 0 Hours: 0-6
Research Experience
Experimental research under the direction of department members. For second-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 301A Units: 1.5 Hours: 0-6
Formerly: part of BIOC 301, MICR 301
Lab Techniques & Projects I
Fundamental biochemical, microbiological and molecular biological laboratory techniques are applied to the development of practical and analytical laboratory skills in projects run as multi-week labs. Acquired laboratory techniques may include: bioinformatics; buffers; SDS-PAGE; protein purification; ELISA; Western blot; culturing hybridomas; enzyme kinetics.
Notes:
• Credit will be granted for only one of BCMB 301A, BIOC 301.
• Limited enrolment.
Prerequisite(s):
• MICR 290A and MICR 300B; and
• declared Honours or Major in Biochemistry or Microbiology; or
• permission of the department.
Pre- or Corequisite(s):
• BIOC 300A or BIOC 300B.
**BCMB 301B** Units: 1.5 Hours: 0-6
Formerly: part of BCMB 301, MICR 302

Lab Techniques & Projects II
Building on BCMB 301A, practical and analytical laboratory skills are applied to increasingly complex laboratory projects. Students are expected to develop time management skills, apply knowledge to new problems, and learn to communicate scientific results. Acquired laboratory techniques may include: enzyme inhibition; gel electrophoresis, immunodetection; microbial quantification and characterization; molecular cloning; transposon mutagenesis; and, culturing HeLa cells.

Note: Credit will be granted for only one of BCMB 301B, BIOC 301.

Prerequisite(s): BCMB 301A.
Pre- or Corequisite(s): MICR 300A or MICR 300B.

**BCMB 398** Units: 0 Hours: 0-6

Research Experience
Experimental research under the direction of department members. For third-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 406A** Units: 1.5 Hours: 0-7
Formerly: part of BCMB 406, MICR 406

Applied Research Laboratory Techniques I
Students will build upon laboratory project skills acquired in third year to become proficient with modern laboratory techniques. A set of 3-4 week projects offer a comprehensive introduction to laboratory research. Experiments in cancer immunology, proteomics and characterization. A set of 3-4 week projects offer a comprehensive introduction to laboratory research. Experiments in cancer immunology, proteomics and characterization.

Prerequisite(s):
• Credit will be granted for only one of BCMB 406A, BIOC 406, MICR 406.
• Limited enrolment.

Note: Credit will be granted for only one of BCMB 406A, BIOC 406, MICR 406.

**BCMB 406B** Units: 1.5 Hours: 0-7
Formerly: part of BCMB 406, MICR 406

Applied Research Laboratory Techniques II
Students further develop research skills in this project which spans the entire term. Students will design, produce and characterize a protein. Techniques may include: primer-design for site-directed mutagenesis; cloning of DNA into a protein expression vector; and, protein expression, purification and analysis. Emphasis is placed on experimental design, problem solving and self-directed research.

Prerequisite(s):
• Credit will be granted for only one of BCMB 406B, BIOC 406, MICR 406.
• Limited enrolment.

Note: Credit will be granted for only one of BCMB 406B, BIOC 406, MICR 406.

**BCMB 498** Units: 1.5 Hours: 0-6

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.

Grading: COM, N, F.

**BCMB 499A** Units: 1.5 Hours: 1-0
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.

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
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, BIOC 499A, BIOC 499B, MICR 499A, MICR 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 both courses.

Prerequisite(s): BCMB 499A.

**BIOC**

**Biochemistry**

Department of Biochemistry and Microbiology
Faculty of Science

**BIOC 102** Units: 1.5 Hours: 3-0

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.

Grading: COM, N, F.

**BIOC 299** Units: 1.5 Hours: 3-0

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 BIOC 300A or BIOC 300B, or with credit in a third-year BIOC or BIOL course.

**BIOC 300A or BIOC 300B** Units: 3-0

Experimental research under the direction of department members. For third-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.
<table>
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<th>Course Code</th>
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| **BIOC 300A** | 1.5 | 3-0 | **Units:** 1.5  
**Hours:** 3-0  
Formerly: part of 300  
**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 300B.  
**Prerequisite(s):**  
• BIOL 225 or BME 200, and  
• CHEM 231; and  
• CHEM 232 or CHEM 235.  
**Recommendation(s):** CHEM 213 recommended prior to BIOC 300A. A minimum grade of C+ in all prerequisites recommended.  |
| **BIOC 300B** | 1.5 | 3-0 | **Units:** 1.5  
**Hours:** 3-0  
Formerly: part of 300  
**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 308B, BIOC 308Q.  
**Prerequisite(s):**  
• All of BIOC 300A, BIOL 225, CHEM 231; and  
• CHEM 232 or CHEM 235.  
**Recommendation(s):** CHEM 213 recommended prior to BIOC 300B. A minimum grade of C+ in all prerequisites recommended.  |
| **BIOC 401** | 1.5 | 3-0 | **Units:** 1.5  
**Hours:** 3-0  
**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):** All of BIOC 300A, BIOC 300B, CHEM 213.  |
| **BIOC 403** | 1.5 | 3-0 | **Units:** 1.5  
**Hours:** 3-0  
**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 modularity and cell migration.  
**Prerequisite(s):** BIOC 300A and BIOC 300B.  |
| **BIOC 404** | 1.5 | 3-0 | **Units:** 1.5  
**Hours:** 3-0  
**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):** All of BIOC 300A, BIOC 300B, CHEM 213.  |
| **BIOC 408** | 1.5 | 3-0 | **Units:** 1.5  
**Hours:** 3-0  
**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):** All of BIOC 300A, BIOC 300B, CHEM 213.  |
| **BIOC 409** | 1.5 | 3-0 | **Units:** 1.5  
**Hours:** 3-0  
**Proteomics**  
Introduction to mass spectrometry for biological applications. Includes: system architecture; analytical strategies for the detection, characterization and quantification of proteins; identification and localization of protein post-translational modifications; immunoproteomics and application to biomarker validation and clinical assay development; application of proteomics methods and strategies to research on infectious diseases and neurogenosis.  
**Note:** Credit will be granted for only one of BIOC 409, BICMB 489 (if taken in Jan 2013 - Apr 2014).  
**Prerequisite(s):** All of BIOC 300A, BIOC 300B, CHEM 213.  |
| **BIOC 470** | 1.5 | 3-0 | **Units:** 1.5  
**Hours:** 3-0  
**Directed Studies in Biochemistry**  
May be taken more than once for credit in different topics to a maximum of 3 units with permission of the department.  
**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:** I/NP; standard grade.  |
| **BIOL 150B** | 1.5 | 3-0 | **Units:** 1.5  
**Hours:** 3-0  
**Modern Biology**  
An introduction to biological science, emphasizing cellular and physiological processes. Topics include principles of genetics, cell biology, plant physiology and animal physiology.  
**Note:** 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** | 1.5 | 3-0 | **Units:** 1.5  
**Hours:** 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 BIOC 150A, BIOC 150B, BIOL 186, Biology 11, Biology 12, or  
• permission of the department.  |
| **BIOL 186** | 1.5 | 3-0 | **Units:** 1.5  
**Hours:** 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 BIOC 150A, BIOC 150B, BIOL 184, Biology 11, Biology 12, or  
• permission of the department.  
**Recommendation(s):** One of Chemistry 11, Chemistry 12, CHEM 091, CHEM 101, CHEM 102, CHEM 150 recommended prior to BIOL 186.  |
**BIOL 215**  
**Units:** 1.5  
**Hours:** 3-3  
**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, behavior, 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  
**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 230.  
**Prerequisite(s):**  
- BIOL 186 or BIOL 190A, or  
- permission of the department.  

**BIOL 230**  
**Units:** 1.5  
**Hours:** 3-3  
**Principles of Genetics**  
Introduction to principles of inheritance. Classic 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):** BIOL 299 recommended prior to BIOL 230.  

**BIOL 248**  
**Units:** 1.5  
**Hours:** 3-0  
**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+, and  
- one of BIOL 184, BIOL 190B, MICR 200A.  

**BIOL 237**  
**Units:** 1.5  
**Hours:** 3-3  
**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 239**  
**Units:** 1.5  
**Hours:** 3-3  
**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, BIOC 308.  

**BIOL 311**  
**Units:** 1.5  
**Hours:** 3-3  
**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, EOS 311.  
**Prerequisite(s):**  
- CHEM 101 or CHEM 150; and  
- BIOL 215 recommended prior to BIOL 311.  
**Also:** EOS 311  
**Formerly:** 311B  

**BIOL 319**  
**Units:** 1.5  
**Hours:** 3-3  
**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.  
**Pre- or Corequisite(s):** One of BIOL 330, ES 310, ES 344.  
**Recommendation(s):** BIOL 203 or BIOL 223 recommended prior to BIOL 319.  

**BIOL 321**  
**Units:** 1.5  
**Hours:** 3-3  
**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  
**Biology of Marine Invertebrates**  
Selected functional categories of invertebrate adaptations. In particular: defensive adaptations, adaptations related to feeding and nutrition, symbiotic relationships, muscle-skeletal 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  
**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  
**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  
**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

**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

**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

**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

**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

**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 345 **Units:** 1.5 **Hours:** 3-3

**Animal Behaviour**
Evolutionary and comparative analyses of behaviour. Topics include taxonomic diversity of nervous systems, proximate and ultimate mechanisms, nature/nurture controversies, communication and sensory modes, foraging behaviours, mate choice, sociality and warfare. Laboratory includes observational and experimental approaches to behaviour of representative invertebrate and vertebrate taxa.

**Note:** Students with credit in MRNE 446 may take this course for credit.

**Prerequisite(s):**
- BIOL 184 or BIOL 190B; and
- BIOL 186 or BIOL 190A; and
- minimum third-year standing; and
- either BIOL 215, or declared Honours or Major in Anthropology or declared Honours or Major in Combined Biology and Psychology.

BIOL 346 **Units:** 1.5 **Hours:** 3-0

**Freshwater Ecosystems**
Provides a basic understanding of the geological, physical, chemical, and biological processes that form and maintain lake and reservoir ecosystems. Covers both theoretical and applied aspects of freshwater ecology, and discusses the studies and experiments that have been used to test important theories and applications. Also covers anthropogenic and environmental threats to and impacts on freshwater ecosystems.

**Prerequisite(s):** One of BIOL 215, ES 240, GEOG 272.

BIOL 351 **Units:** 1.5 **Hours:** 3-0

**The Biology behind the News**
An examination of the biological science that bears on current environmental, social, ethical and political issues. Emphasis on how an understanding of the science might inform decision-making by individuals and groups.

**Note:** Credit for this course will not be counted toward any Biology program requirement except as an elective.

**Prerequisite(s):** Minimum third-year standing.

BIOL 355 **Units:** 1.5 **Hours:** 3-0

**Formerly:** 455

**Evolution**
Evolutionary processes and the spatial and temporal patterns they produce. Natural selection, genetic drift and other microevolutionary processes; the basis of morphological and molecular change; species and speciation; macroevolution; phylogeny reconstruction; origin of life.

**Note:** Credit will be granted for only one of BIOL 355, BIOL 455.

**Prerequisite(s):** BIOL 230.

BIOL 359 **Units:** 1.5 **Hours:** 3-0

**Food, Disease and People**
Microorganisms and their role in human societies today and in the past. Microorganisms in fermentation of food (cheese, sourdough bread) and beverages (wine, beer) but also in foodborne and non-foodborne diseases (listeriosis, plague). Aspects of growth, genetics, evolution and ecology of microorganisms as part of food and diseases with an emphasis on bacteria and their classification. Importance of microorganisms in trade and history.

**Note:** Credit for this course will not be counted toward any Biology program requirement except as an elective.

**Prerequisite(s):** Minimum third-year standing.

BIOL 360 **Units:** 1.5 **Hours:** 3-0

**Cell Biology**
Structure and function of animal and plant cells and tissues, membrane structure, transport, cellular compartments, cytoskeleton, cell growth and division, cell adhesion, extracellular matrix, tissue organization and renewal.

**Prerequisite(s):**
- Either BIOL 230, or BME 200 and BME 201; and
- one of BIOC 299, BIOC 300A, BIOC 300B (BIOC 300A or BIOC 300B may be taken as corequisites).

BIOL 361 **Units:** 1.5 **Hours:** 3-0

**Molecular Genetics and Genomics**
Naturally occurring and induced genetic mutations leading to phenotypic variation within and among species in a diversity of eukaryotic taxa. Regulation of transcription and translation (including small regulatory RNAs), protein-protein interactions, molecular mechanisms of tumor formation, genome structure and mobile genetic elements, and functional genomics.

**Prerequisite(s):**
- BIOL 230; and
- one of BIOC 299, BIOC 300A, BIOC 300B (BIOC 300A or BIOC 300B may be taken as corequisites).

BIOL 362 **Units:** 1.5 **Hours:** 1-3

**Techniques in Molecular Biology**
An introduction to basic techniques in molecular biology. Nucleic acid (DNA) extractions; polymerase chain reaction (PCR); gel electrophoresis; molecular cloning; non-isotopic labeling of DNA probes; Northern blots; PCR primer design; computer based analyses of nucleotide sequence data. Students will undertake laboratory safety assignments on WHMIS and Biosafety.

**Prerequisite(s):** BIOL 230.

**Pre- or Corequisite(s):** One of BIOC 299, BIOC 300A, BIOC 300B.

**Recommendation(s):** BIOL 360 or BIOL 361 recommended prior to BIOL 362.
BIOL 365  Units: 1.5  Hours: 3-3
Animal Physiology
Fundamentals of animal physiological systems: principles of cellular and organismic homeostasis, nutrition, digestion, salt/water balance, respiration, circulation, muscle contraction, excitable membranes, sensory systems, brain functions, hormones, reproduction. Laboratory includes study of live animals.
Note: Credit will be granted for only one of BIOL 365, BIOL 305A, BIOL 305B.
Prerequisite(s): Either BIOL 184 and BIOL 186, or BIOL 190B, and BIOL 225; and minimum third-year standing.
Pre- or Corequisite(s): One of BIOL 299, BIOL 300A, BIOL 300B.

BIOL 366 Units: 1.5  Hours: 3-3
Plant Physiology
Principles of plant physiology: photosynthesis, water relations, ion uptake, translocation, carbohydrates, nitrogen and lipid metabolism, phenolics, phytohormones, tropisms, phytochromes.
Note: Credit will be granted for only one of BIOL 366, BIOL 331A, BIOL 331B.
Prerequisite(s): BIOL 225.
Pre- or Corequisite(s): One of BIOL 299, BIOL 300A, BIOL 300B; and minimum third-year standing.
Recommendation(s): BIOL 324 recommended prior to BIOL 366.

BIOL 367  Units: 1.5  Hours: 3-0
Formerly: 409A
Neurobiology: Molecules to Behaviour
Notes:
• Credit will be granted for only one of BIOL 367, BIOL 409A.
• Students with credit in PSYC 345A or PSYC 323 may take BIOL 367 or BIOL 409A as a pre- or corequisite.
Prerequisite(s): One of BIOL 360, BIOL 365, BME 200 and BME 201.

BIOL 370  Units: 1.5  Hours: 3-0
Also: ES 320
Conservation Biology
Diversity of organisms, functioning of ecosystems, and the impact of human activities on these. Topics include the nature of biological diversity; extinction and its cause; 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 BIOL 370, ER 313, ES 318, ES 320, ES 348.
Prerequisite(s):
• BIOL 186 or BIOL 190A; and
• BIOL 215 and BIOL 230; and
• STAT 255 or STAT 260.

BIOL 400  Units: 1.5  Hours: 3-0
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
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, BIOL 300B.

BIOL 404  Units: 1.5  Hours: 3-0
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
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 365; or
• permission of the department.

BIOL 410  Units: 1.5  Hours: 3-3
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
Mycology
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.
Note: Credit will be granted for only one of BIOL 415C, BIOL 415, BIOL 415A, BIOL 415B, BIOL 470 (if taken in the same topic).
Prerequisite(s): All of BIOL 215, BIOL 225, BIOL 230.

BIOL 418  Units: 1.5  Hours: 3-3
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. Cost of field trips will be borne by students.
Prerequisite(s):
• One of BIOL 324, BIOL 330, ES 310, ES 344; or
• permission of the department.

BIOL 432  Units: 1.5  Hours: 3-0
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, immunoenodocrinology and environmental endocrinology. Lectures and presentations of scientific papers.
Prerequisite(s): One of BIOL 360, BIOL 365, BIOL 299, BIOL 300A, BIOL 300B.

BIOL 435  Units: 1.5  Hours: 3-0
Molecular Evolution
Using population genetic and evolutionary principles to understand how and why genes and genomes change, and to reconstitute the evolutionary history of genes, genomes, and organisms.
Prerequisite(s): BIOL 230.
Pre- or Corequisite(s): One of BIOL 330, BIOL 355, BIOL 439, BIOL 455, BIOL 300A, BIOL 300B, CSCI 428, ES 310, ES 344.

BIOL 436  Units: 1.5  Hours: 3-0
Human Molecular Genetics
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, BIOL 300A, BIOL 300B; or
• permission of the department.

BIOL 438  Units: 1.5  Hours: 3-0
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.
ION CHANNELS AND DISEASE

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):
- All of BIOL 215, BIOL 225, BIOL 230; and
- STAT 255 or STAT 260.

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 to 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 377; and
- minimum fourth-year standing.

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 260 or BIOL 261.

NEUROETHOLOGY

Examination of the neural 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 365B, BIOL 365C.

FLORELLING 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.

Note: Credit will be granted for only one of BIOL 449, BIOL 318, ES 425.

Prerequisite(s):
- BIOL 184 or BIOL 190B; and
- BIOL 186 or BIOL 190A; and
- minimum third-year standing.

Paleoecology and Environmental Change

Fundamental principles of paleoecology with emphasis on species, 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; or
- permission of the department.

Recommended(s): BIOL 324 recommended prior to BIOL 457.

PLANT BIOCHEMISTRY AND BIOCHEMICAL ECOLOGY


Note: Not open to students with credit in BIOL 490A in this topic.

Prerequisite(s): One of BIOL 299, BIOL 300A, BIOL 300B.

Recommended(s): BIOL 300A or BIOL 300B recommended prior to BIOL 458.

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.

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.

Recommended(s): BIOL 335 recommended prior to BIOL 461.

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.

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): All of BIOL 225, BIOL 230, BIOL 360.

FRONTIERS IN MARINE BIOLOGY

Explores new advances in topics related to ocean biology, focussing 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.

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 - BIOL 499B**

**BIOL 468**  
Units: 1.5  
Hours: 3-0  
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.  
**Notes:** 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, MRNE 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:** INP, 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 490H, BIOL 490I, MRNE 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:** INP, standard grade.

**BIOL 490D**  
Units: 1.5  
Directed Studies and Research in Marine Biology  
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 490D, BIOL 490A, BIOL 490B, BIOL 490E, BIOL 490F, BIOL 490G, BIOL 490H, BIOL 490I, MRNE 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:** INP, standard grade.

**BIOL 490E**  
Units: 1.5  
Directed Studies and Research in Zoology  
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 490E, BIOL 490A, BIOL 490B, BIOL 490D, BIOL 490F, BIOL 490G, BIOL 490H, BIOL 490J, MRNE 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:** INP, standard grade.

**BIOL 490F**  
Units: 1.5  
Directed Studies and Research in Cell and Molecular Biology  
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 490F, BIOL 490A, BIOL 490B, BIOL 490D, BIOL 490E, BIOL 490G, BIOL 490H, BIOL 490J, MRNE 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:** INP, standard grade.

**BIOL 490G**  
Units: 1.5  
Directed Studies and Research in Evolution  
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 490G, BIOL 490A, BIOL 490B, BIOL 490D, BIOL 490E, BIOL 490F, BIOL 490H, BIOL 490J, MRNE 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:** INP, standard grade.

**BIOL 490H**  
Units: 1.5  
Directed Studies and Research in Neurobiology  
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 490H, BIOL 490A, BIOL 490B, BIOL 490D, BIOL 490E, BIOL 490F, BIOL 490G, BIOL 490J, MRNE 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:** INP, standard grade.

**BIOL 490J**  
Units: 1.5  
Hours: 3-0  
Directed Studies and Research in Forest Biology  
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 490J, BIOL 490A, BIOL 490B, BIOL 490D, BIOL 490F, BIOL 490G, BIOL 490H, MRNE 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:** INP, standard grade.

**BIOL 492**  
Units: 1.5  
Malaysia Tropical Field Ecology  
A six week field course introducing students to the biodiversity of Malaysia. Studies of diverse tropical habitats and biological communities including rain forests, mangrove swamps, coral reefs, wetlands and agroecosystems. Normally held from early May to late June.  
**Prerequisite(s):**  
- BIOL 215; and  
- permission of the department.

**BIOL 499A**  
Units: 1.5  
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 BIOL 499A, BIOL 499, BIOL 499B.  
- Open to Honours students only.  
- BIOL 499A and BIOL 499B are “tied” courses and must be taken in consecutive terms except with permission of the department.  
- Credit for BIOL 499A will be assigned only upon successful completion of BIOL 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).

**BIOL 499B**  
Units: 1.5  
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 BIOL 499B, BIOL 499, BIOL 499A.  
- Open to Honours students only.  
- BIOL 499A and BIOL 499B are “tied” courses and must be taken in consecutive terms except with permission of the department.  
- Credit for BIOL 499A will be assigned only upon successful completion of both courses.  
**Prerequisite(s):** BIOL 499A.
### BME 200 - BME 481

**BME 200 - Molecular and Cellular Physiology for Engineers**
Examine 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 335 - 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 projects; 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 - 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.

**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).
- May be taken more than once for credit in different topics with permission of the department.

**BME 401B - 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.

**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).
- May be taken more than once for credit in different topics with permission of the department.

**BME 401D - 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.

**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).
- May be taken more than once for credit in different topics with permission of the department.

**BME 403 - 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, ELEC 435.

**Prerequisite(s):** ELEC 310.

**BME 434 - Biophotonics**
An overview of basic optics (including the principles of lasers), biology and photobiology will be given. Practical applications will be presented including biomaging, 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, ELEC 434.

**Prerequisite(s):** ELEC 340.

**BME 481 - 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 BME 481, MECH 450 (if taken in the same topic), MECH 481.

**Prerequisite(s):**
- BME 350 or MECH 350, and
- ENGR 002; and
- minimum fourth-year standing in the Biomedical Engineering, Computer Engineering or Civil Engineering, Electrical Engineering or Mechanical Engineering program.
BME 498 Units: 3.0 Hours: 2-18
Honours Thesis
The honors 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.
Note: This course may only be taken once, replacing two technical electives, one of which can be one of CENG 499, ELEC 499, MECH 498, MECH 499. Not open to students with credit in any of CENG 499, ELEC 498, ELEC 499, MECH 498, 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 Units: 1.5 Hours: 1-9
Design Project
A significant technical design project in Biomedical Engineering completed under the supervision of a faculty member. This design experience is based on the knowledge and skills acquired in earlier coursework. Projects may originate from faculty members, students, or external sources. They may have a diverse nature and serve diverse needs. Multi-disciplinary projects are encouraged.
Prerequisite(s):
• BME 350 or MECH 350; and
• ENGR 002; and
• minimum fourth-year standing in the Biomedical Engineering program.

CENG

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), CSC (Computer Science), ELEC (Electrical Engineering), ENGR (Engineering), MECH (Mechanical Engineering) and SENG (Software Engineering).

CENG 241 Units: 1.5 Hours: 3-3
Formerly: 290
Digital Design
Note: Credit will be granted for only one of CENG 241, CENG 290.
Prerequisite(s): Minimum second-year standing.

CENG 242 Units: 1.5 Hours: 3-0
Discrete Structures in Engineering
Note: May not be counted for credit towards a Computer Science degree program.
Prerequisite(s): MATH 101 and MATH 110.

CENG 255 Units: 1.5 Hours: 3-3
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 CENG 255, CSC 230.
Prerequisite(s): CSC 111.
Corequisite(s): CSC 115 or CSC 116.

CENG 299 Units: 1.5 Hours: 3-3
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 CENG 299, CIVE 200, ELEC 200, ELEC 299, ENGR 150, MECH 200.
Pre- or Corequisite(s):
• CENG 241 and ELEC 250; and
• ENGR 120 or ENGR 121.

CENG 355 Units: 1.5 Hours: 3-1.5
Microprocessor-Based Systems
Prerequisite(s): One of CENG 255, CSC 230, MECH 405.

CENG 390 Units: 1.5 Hours: 3-0
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.
Note: May not be counted for credit towards a Computer Science degree program.
Prerequisite(s): CENG 255.

CENG 399 Units: 1.5 Hours: 1-6
Design Project I
A team-based technical project completed under the supervision of a faculty member, with focus on engineering design requirements and specification processes. Expected learning outcome is based on the knowledge and skills acquired by the student in earlier and concurrent courses, and Professional Engineers’ awareness with respect to the environment, ethics, equity, public worker safety and health. Projects may have a diverse nature serving societal needs. Multi-disciplinary projects are encouraged.
Prerequisite(s):
• One of CENG 299, ELEC 200, ELEC 299; and
• minimum third-year standing in the BEng program in Computer Engineering; or
• permission of the department.

CENG 412 Units: 1.5 Hours: 3-0
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 CENG 412, SENG 412.
Prerequisite(s): STAT 254 or STAT 260.

CENG 420 Units: 1.5 Hours: 3-0
Formerly: 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 CENG 420, CENG 490 (if taken in the same topic), CSC 421.
Prerequisite(s): Minimum fourth-year standing in the Faculty of Engineering.

CENG 421 Units: 1.5 Hours: 3-1.5
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.
Prerequisite(s): ELEC 310.
CENG 441 - Units: 1.5 Hours: 3-1.5
Design of Digital and VLSI Systems
Note: Credit will be granted for only one of CENG 441, CENG 440, CENG 465.
Prerequisite(s):
- CENG 241 or CENG 290, and
- minimum fourth-year standing in the Faculty of Engineering.

CENG 448 - Units: 1.5 Hours: 3-0
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.
Prerequisite(s):
- Minimum fourth-year standing in the Faculty of Engineering; or
- permission of the department.

CENG 450 - Units: 1.5 Hours: 3-3
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.
Prerequisite(s): CENG 355 or CSC 355.

CENG 453 - Units: 1.5 Hours: 3-0
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.
Prerequisite(s):
- Minimum fourth-year standing in the Faculty of Engineering; or
- permission of the department.

CENG 455 - Units: 1.5 Hours: 3-3
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.
Prerequisite(s): CENG 355 or CSC 355.

CENG 460 - Units: 1.5 Hours: 3-1.5
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 CENG 460, CSC 361, CSC 430.
Prerequisite(s): CENG 255 or CSC 230.

CENG 461 - Units: 1.5 Hours: 3-0
Design and Analysis of Computer Networks
Prerequisite(s): STAT 254 or STAT 260.

CENG 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): Permission of the department.

CENG 496 - Units: 1.5 Hours: 3-0*
Formerly: CENG 496
Selected Topics in 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 CENG 496B, CENG 496C (if taken in the same topic), CENG 496D (if taken in the same topic), CENG 496E (if taken in the same topic), CENG 496F (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.

CENG 496B - Units: 1.5 Hours: 3-0*
Formerly: CENG 496
Selected Topics in 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 CENG 496B, CENG 496C (if taken in the same topic), CENG 496D (if taken in the same topic), CENG 496E (if taken in the same topic), CENG 496F (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.

CENG 496C - Units: 1.5 Hours: 3-0*
Formerly: CENG 496
Selected Topics in 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 CENG 496C, CENG 496D (if taken in the same topic), CENG 496E (if taken in the same topic), CENG 496F (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.

CENG 496D - Units: 1.5 Hours: 3-0*
Formerly: CENG 496
Selected Topics in 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 CENG 496D, CENG 496E (if taken in the same topic), CENG 496F (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.
CHEM 091 Units: 0 Hours: 0-1-0

Introduction to Chemistry
Special tutorial course for students who do not have Chemistry 12, which is designed to provide background for students who intend to enrol, either simultaneously or subsequently, in a university-level introductory general chemistry course. This course will be delivered via the Internet. There are no set class times; a unit should be completed roughly every two weeks during the term. Students will be assessed by timed on-line quizzes after the completion of each unit.

Note: 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.

CENG 499 Units: 1.5 Hours: 1-9

Design Project II
A significant technical design project in Computer Engineering completed under the supervision of a faculty member. This design experience is based on the knowledge and skills acquired in earlier coursework. Projects may originate from faculty members, students, or external sources. They may have a diverse nature and serve diverse needs. Multi-disciplinary projects are encouraged.

Note: Credit will be granted for only one of CENG 499, CENG 499A and 499B.

CHEM 298

Units: 0 Hours: 0-6

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  
Formerly: half of 300  
Chemistry in Modern Society  
Intended for a broad audience, including nonscientists. Not intended for those students (Chemistry majors and others) with a strong Chemistry background. Familiarizes students with chemistry as experienced in daily life. Covers subjects such as food, drugs, materials, personal care products, energy and pollution. The choice of topics will be influenced by current controversial aspects of chemistry. 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 CHEM 212 or CHEM 213.

CHEM 303  Units: 1.5  Hours: 3-0  
Industrial Chemistry: Earth, Air, Fire, Water  
Introduction to the principles and processes used in the chemical and energy industries of Western Canada: petroleum production and refining, petrochemical, pulp and paper, mining and smelting, and fermentation industries. Water and air quality, water and air emission problems and their control. Introduction to analyses of embodied energy and virtual water.

Notes:  
- Credit will be granted for only one of CHEM 303, CHEM 306, CHEM 478.
- Primarily designed for students who are not majoring in Chemistry. Requires familiarity with stoichiometry calculations, including the concepts of limiting reactant, yield, and concentration; and with calculations involving the ideal gas law and heats of reaction; with the concepts of energy and power.

Prerequisite(s): CHEM 231.

CHEM 318  Units: 1.5  Hours: 3-0  
Instrumental Techniques of Analysis  
Theory and applications of the most generally applied methods of chemical analysis such as infrared, raman and emission spectroscopy, polarography, high performance liquid chromatography, radiochemical analysis etc.

Prerequisite(s): CHEM 212 and CHEM 213.

CHEM 324  Units: 1.5  Hours: 3-0  
Transition Metal Chemistry  
Coordination chemistry of the d-block metals. Electronic structure, properties, reactions, and applications of transition metal complexes.

Prerequisite(s): CHEM 222.

CHEM 335  Units: 1.5  Hours: 3-0  
Synthetic Methods in Organic Chemistry  
Design of syntheses in aliphatic, aromatic and some biomolecules. Aliphatic systems; carbanions, conjugated carbonyl compounds, amines in syntheses, functional group modifications. Aromatic systems; aromatic substitution processes, reactive substrates (phenols, amines), polynuclear aromatics. Biomolecules: synthesis and modification of heterocycles and carbohydrates.

Prerequisite(s): CHEM 232 or CHEM 235.

CHEM 337  Units: 1.5  Hours: 3-0  
Bio-organic Chemistry  

Prerequisite(s): CHEM 232 or CHEM 235.

CHEM 347  Units: 1.5  Hours: 3-0  
Quantum Chemistry  
Introduction to quantum chemistry, molecular orbitals and bonding. The Schrodinger equation and its solutions for some simple systems. Wavefunctions, one-electron and multielectron atoms, rotation and vibration of molecules. 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 213 or CHEM 245, and  
- MATH 101.

CHEM 361  Units: 0.75  Hours: 0-3  
Analytical Chemistry Laboratory  
This laboratory course will build on expertise acquired in CHEM 312, with greater emphasis on instrumental analysis and more advanced techniques.

Notes:  
- A total of 1.5 units of credit will be granted for only one of CHEM 361, CHEM 312, CHEM 318 (if taken prior to September 2001).
- Offered in fall and spring terms.
To count toward any Chemistry program, this course must be taken twice, over two terms in which the course content differs, for a total of 1.5 units.

Prerequisite(s): CHEM 212.

CHEM 362  Units: 0.75  Hours: 0-3  
Inorganic Chemistry Laboratory  
This laboratory course will emphasize synthetic techniques and manipulations in organometallic and coordination chemistry; spectroscopic characterization of sensitive compounds; principles of transition metal chemistry.

Notes:  
- 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).
- Offered in fall and spring terms.
To count toward any Chemistry program, this course must be taken twice, over two terms in which the course content differs, for a total of 1.5 units.

Prerequisite(s): CHEM 213 and CHEM 212.

CHEM 364  Units: 0.75  Hours: 0-3  
Physical Chemistry Laboratory  
This laboratory course builds on expertise acquired in CHEM 245 and presents a variety of physical chemistry experiments at an intermediate level.

Notes:  
- A total of 1.5 units of credit will be granted for only one of CHEM 364, CHEM 346, CHEM 347 (if taken prior to September 2001).
- Offered in fall, spring and summer terms.
To count toward any Chemistry program, this course must be taken twice, over two terms in which the course content differs, for a total of 1.5 units.

Prerequisite(s): CHEM 245.

CHEM 398  Units: 0  Hours: 0-6  
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  
Formerly: 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 499A or CHEM 499B.

Prerequisite(s): Permission of the department.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 400A</td>
<td>1.5</td>
<td>3-0</td>
<td>Applications of Chemistry&lt;br&gt;Intended for students who have completed at least two years of chemistry. Covers issues in the chemistry that surrounds us. Topics of current interest will be covered with an emphasis on how the chemistry works, and advantages and disadvantages of their application. Topics may include the chemistry of food, drugs, household products, agrochemicals, petrochemicals, pollution, energy (generation/conversion) and materials. Prerequisite(s): Two of CHEM 213, CHEM 222, CHEM 231, CHEM 232.</td>
</tr>
<tr>
<td>CHEM 411</td>
<td>1.5</td>
<td>2-0-1</td>
<td>Advanced Instrumental Analysis&lt;br&gt;A discussion of electronic data acquisition and manipulation as used in modern chemical instrumentation. Included will be some of the following: mass spectrometry, x-ray diffraction, NMR, EPR, etc. Prerequisite(s): CHEM 318.</td>
</tr>
<tr>
<td>CHEM 421</td>
<td>1.5</td>
<td>3-0-0</td>
<td>Advanced Inorganic Chemistry&lt;br&gt;Advanced topics in inorganic chemistry from across the periodic table, building on principles established in 222 and 324. Topics may include main group organometallics; novel structures and reactivity, catalysis, inorganic polymers, zeolites, fullerenes, metal-metal and metal-ligand multiple bonding, bioinorganic chemistry, metal clusters, or chemistry of the lanthanides and actinides. Note: Credit will be granted for only one of CHEM 421, CHEM 424, CHEM 426. Prerequisite(s): CHEM 324.</td>
</tr>
<tr>
<td>CHEM 423</td>
<td>1.5</td>
<td>2-0-1</td>
<td>Organometallic Chemistry&lt;br&gt;A detailed look at transition metal organometallic chemistry. Bonding theory, synthesis and reactivity of sigma-bonded alkenes and alkynes, metal carbonyls and pi-bonded organic liquids such as alkenes, alkenes, allyls and arenes. Applications of organometallic complexes in organic synthesis and industrial catalysis. Prerequisite(s): CHEM 324.</td>
</tr>
<tr>
<td>CHEM 432</td>
<td>1.5</td>
<td>3-0</td>
<td>Advanced Organic Synthesis&lt;br&gt;Building on the methodology learned in 335, this course focuses on the art and science of total synthesis, including modern asymmetric transformations, organometallic coupling strategies (e.g., Pd- and Ru-mediated reactions), and considerations of synthetic efficiency. Students will learn to evaluate and propose syntheses of complex natural products. Prerequisite(s): CHEM 335.</td>
</tr>
<tr>
<td>CHEM 434</td>
<td>1.5</td>
<td>2-0-1</td>
<td>Structure-Property Relationships in Organic Chemistry&lt;br&gt;Influence of bonding and structure on chemical, physical and electronic properties of organic molecules, within a biological and materials chemistry context. Topics covered may include substituent effects, noncovalent interactions, solvation, packing motifs, bonding theory, redox processes, electronic effects in closed shell vs. organic open shell molecules, molecular orbital theory, semiempirical calculations, photochemistry, absorption and emission processes, and electron transfer theory. Prerequisite(s): CHEM 232 or CHEM 235.</td>
</tr>
<tr>
<td>CHEM 437</td>
<td>1.5</td>
<td>3-0</td>
<td>Biological and Medicinal Chemistry&lt;br&gt;An introduction to medicinally important biological systems and the small molecules that perturb them. Topics will include chemical aspects of proteomics, biological target identification, mechanisms of action for important drugs, lead identification and development, and enzyme inhibitor design. Prerequisite(s): CHEM 232 and 1.5 units of BIOL or BIOL course number 200 or higher; or permission of the department.</td>
</tr>
<tr>
<td>CHEM 452</td>
<td>1.5</td>
<td>3-0</td>
<td>Reaction Mechanisms and Dynamics&lt;br&gt;Predicting the kinetic behaviour of different types of mechanisms. Deduction of mechanisms and interpretation of activation parameters from experimental data. Predicting and controlling rate by varying solvents, substrates, catalysts, etc. Use of a wide range of examples from inorganic and organic chemistry to illustrate these ideas. Note: Credit will be granted for only one of CHEM 452, CHEM 352. Prerequisite(s): CHEM 222, and CHEM 232 or CHEM 235.</td>
</tr>
<tr>
<td>CHEM 453</td>
<td>1.5</td>
<td>3-0</td>
<td>Structure, Reactivity and Bonding&lt;br&gt;Symmetry elements and operations in molecules. Applications of group theory in chemistry. Descriptions of chemical bonding and reactivity in inorganic and organic molecules using qualitative molecular orbital theory. Huckel MO theory of cyclical conjugated molecules. Structure and bonding in coordination and organometallic compounds. Note: Credit will be granted for only one of CHEM 453, CHEM 353. Prerequisite(s): CHEM 222, and CHEM 232 or CHEM 235.</td>
</tr>
<tr>
<td>CHEM 458</td>
<td>1.5</td>
<td>2-0-1</td>
<td>Statistical Thermodynamics&lt;br&gt;Ensembles, partition functions, distinguishable and indistinguishable molecules; statistical mechanical expressions for thermodynamic functions; application to ideal monatomic, diatomic and polyatomic gases, monatomic crystals and chemical equilibrium; classical and quantum statistics. Prerequisite(s): CHEM 245.</td>
</tr>
<tr>
<td>CHEM 459</td>
<td>1.5</td>
<td>2-0-1</td>
<td>Materials Science&lt;br&gt;Introduction to properties of materials from a chemical perspective, including the principles behind modern materials and their technological applications. Electronic structure of solids. Electrical conductivity, types of conducting materials: metals, semiconductors, polymeric conductors. Other topics may include magnetic, optical, mechanical, or interfacial properties. Prerequisite(s): CHEM 222 and CHEM 347.</td>
</tr>
<tr>
<td>CHEM 461</td>
<td>0.75</td>
<td>0-3</td>
<td>Advanced Analytical Chemistry Laboratory&lt;br&gt;This laboratory course will build on expertise acquired in CHEM 212 and 361, with emphasis on one project in instrumental analysis. Notes: Credit will be granted for only one of CHEM 461, CHEM 465 (if taken in the same topic), CHEM 466 (if taken in the same topic). Offered in summer, fall and spring. Prerequisite(s): CHEM 361.</td>
</tr>
<tr>
<td>CHEM 462</td>
<td>0.75</td>
<td>0-3</td>
<td>Advanced Inorganic Chemistry Laboratory&lt;br&gt;This laboratory course will build on expertise acquired in CHEM 222 and 362, with emphasis on more difficult techniques or concepts encountered in inorganic synthesis. Notes: Credit will be granted for only one of CHEM 462, CHEM 465 (if taken in the same topic), CHEM 466 (if taken in the same topic). Offered in summer, fall and spring. Prerequisite(s): CHEM 362.</td>
</tr>
<tr>
<td>CHEM 463</td>
<td>0.75</td>
<td>0-3</td>
<td>Advanced Organic Chemistry Laboratory&lt;br&gt;This laboratory course will build on expertise acquired in CHEM 235 and 363, with emphasis on more difficult techniques or concepts encountered in organic synthesis and physical organic chemistry. Notes: Credit will be granted for only one of CHEM 463, CHEM 465 (if taken in the same topic), CHEM 466 (if taken in the same topic). Offered in summer, fall and spring. Prerequisite(s): CHEM 363.</td>
</tr>
<tr>
<td>CHEM 464</td>
<td>0.75</td>
<td>0-3</td>
<td>Advanced Physical Chemistry Laboratory&lt;br&gt;This laboratory course will build on expertise acquired in CHEM 245 and 364, with emphasis on larger projects studied at greater depth. Notes: Credit will be granted for only one of CHEM 464, CHEM 465 (if taken in the same topic), CHEM 466 (if taken in the same topic). Offered in summer, fall and spring. Prerequisite(s): CHEM 364.</td>
</tr>
<tr>
<td>CHEM 467</td>
<td>0.75</td>
<td>0-3</td>
<td>Special Topics in Experimental Chemistry&lt;br&gt;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. Prerequisite(s): Permission of the department.</td>
</tr>
</tbody>
</table>
CHEM 476  Units: 1.5  Hours: 3-0
Formerly: 336
Introductory Polymer Chemistry
Kinetics and mechanisms of polymer and copolymer synthesis, characterization of polymers and molecular weight distributions. Thermodynamics of polymer solutions, the crystalline and amorphous states, rubber elasticity, structure-property relationships. Special topics in polymer materials.

Note: Credit will be granted for only one of CHEM 476, CHEM 336.
Prerequisite(s): CHEM 245.

CHEM 489  Units: 1.5  Hours: 3-0
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
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.

CHEM 498B  Units: 1.5  Hours: 0-6
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 499A  Units: 1.5  Hours: 0-6
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 499B, CHEM 499, CHEM 499A.
• Enrollment in 499A and 499B does not automatically confer Honours program status. Students are advised to make arrangements for 499 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 499B  Units: 1.5  Hours: 0-6
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 CHEM 499B, CHEM 499B, CHEM 499, CHEM 499B.
• Enrollment in 499A and 499B does not automatically confer Honours program status. Students are advised to make arrangements for 499 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 499C  Units: 1.5  Hours: 0-6
Honours Thesis III
Continuation of a research project conducted under the direction of a faculty member.

Notes:
• Credit will be granted for only one of CHEM 499C, CHEM 499C, CHEM 499, CHEM 499C.
• Enrollment in 499A and 499B does not automatically confer Honours program status. Students are advised to make arrangements for 499 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.

CIV 200  Units: 1.5  Hours: 3-1.5*
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.

CIV 210  Units: 1.5  Hours: 3-0-0
Sustainable Development in Civil Engineering
Principles of sustainable design in engineering systems, manufacturing, infrastructure, transportation, communications, and community development; design for the environment and sustainability metrics; introduction to life cycle assessment framework, methods, and tools using mathematical modelling software. Evaluation of sustainable technologies from technical, economic, environmental and social perspectives using life cycle analysis. Environmental impact assessments, environmental audit protocols and plans, pre-assessment planning and preliminary assessment of contaminated sites, site investigation, remedial planning and design. Green design case studies.

Prerequisite(s):
• CHEM 101 or CHEM 150, 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 130.

CIV 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 CIV 220, MECH 220.
Prerequisite(s): CIVE 141 or ENGR 141.
Pre- or Corequisite(s): MATH 200.
CIVE 242 - CIVE 385

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
- CSC 110 or CSC 111; 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
- CHEM 101 or CHEM 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 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
Prerequisite(s):
- MATH 200; and
- CIVE 220 or MECH 220; and
- CIVE 295 or CIVE 299.

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
- MATH 201 or MATH 204.

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 other wood structures. Life cycle analysis of structures.
Prerequisite(s):
- CIVE 210 and CIVE 350; and
- CIVE 220 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 220 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 201; and
- one of MECH 200, CIVE 200, ELEC 200; and
- STAT 254 or STAT 260.

CIVE 370 Units: 1.5 Hours: 3-0
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 ENGL 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 - 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 002.
Pre- or Corequisite(s): Minimum 6 units of CIVE courses numbered 400 or higher (excluding CIVE 400).

CIVE 410 - 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.
Prerequisite(s): CIVE 310.

CIVE 411 - 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;
- permission of the department.

CIVE 420 - Advanced Mechanics of Solids
Deflection of beams, combined axial load and bending moment, inelastic bending, plastic analysis of structures, beam-columns, buckling (stability), principal axes and principal moments of inertia, biaxial stress and strain, thick cylinders, pressurized and pre-stressed vessels.
Prerequisite(s): CIVE 220 or MECH 220.

CIVE 421 - Advanced Structural Analysis
Stiffness method; development and applications in structural analysis; application of computer programs; trusses, multispan beams, and frames; loadings due to force, support displacement, temperature change and member restraint; axial and flexural stability; basic plasticity; introduction to finite element method.
Prerequisite(s): CIVE 350.

CIVE 440 - Hydrology and Hydraulics
Application of continuity, energy and momentum principles to flow in open-channels and closed conduits; design of channels considering uniform flow and flow resistance, non-uniform flow and longitudinal profiles; design of channel controls and transitions; unsteady flow; theory and design of hydraulic structures. Engineering hydrology and water resource systems; estimation of design discharge; statistical analysis of extremes; impacts of climate change on the hydrologic cycle, watershed analysis, snow, runoff.
Prerequisite(s): CIVE 340 and CIVE 345.

CIVE 445 - Groundwater Hydrology
Prerequisite(s): CIVE 340.

CIVE 450 - Green Building Design
Design and construction concepts: site sustainability, water efficiency, energy flows, materials and resources, indoor environmental quality. Life cycle analysis methods, including estimation of material and energy flows in the construction, operation, maintenance and decommissioning of the built environment. Innovative design and integration. LEED (Leadership in Energy and Environmental Design) certification criteria.
Prerequisite(s): CIVE 210 and CIVE 352.

CIVE 451 - Sustainable Buildings: Retrofitting, Repairs, and Recycling
Sustainabilities of housing in remote communities integrating aspects of structural engineering, rural municipal engineering, transportation engineering while mitigating ecological footprints; major retrofit issues that consider safety, serviceability and aspects dealing with environmental factors, energy consumption and movement of moisture. Potential for recycling building materials for further use.
Prerequisite(s): All of CIVE 310, CIVE 351, CIVE 352, CIVE 360, CIVE 385.

CIVE 452 - Engineering for Earthquakes and Extreme Events
Basics of earthquake engineering and seismic resistant design loads; fundamentals behind seismic hazard maps contained in building codes; ground motion time-histories for engineering analysis; risk analysis; an examination of natural disasters and their effects on the society; basic probabilistic modeling and simulation techniques and their applications to natural disaster problems; hazard and risk assessments, post-disaster rapid inspection of damaged structures.
Prerequisite(s):
- CIVE 350 and CIVE 385; and
- STAT 254 or STAT 260.

CIVE 456 - Sustainability and Advanced Concrete Technology
Microstructure of hydration products and its effect on properties of concrete. Mechanisms and interaction of chemical admixtures and industrial wastes to produce sustainable and high performance concrete. Evaluation of fresh and hardened properties of conventional and cement-based composites. Focus on specialized concretes and emerging materials not limited to Fiber Reinforced Concrete, Self-consolidating concrete, High Strength Composites, Light Weight Concrete, and Carbon Negative Concrete.

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 hollow structural section connections are also covered. Canadian design standards and the Limit States Design concepts are used.
Prerequisite(s):
- CIVE 311; or
- permission of the department.

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).
- 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 - COM 206C

CIVE 480B Units: 1.5 Hours: 3-0*
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 Units: 1.5 Hours: 3-0*
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 Units: 1.5 Hours: 3-0*
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 Units: 1.5 Hours: 3-0*
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 Units: 1.5 Hours: 3-0*
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), 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.

COM 499 Units: 1.5 Hours: 3-0-0
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.

CIVE 499 Units: 1.5 Hours: 3-0-0
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 206B Units: 1.5 Hours: 3-0
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
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 204 Units: 0 Hours: 3-0-1
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
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
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 100 Units: 1.5 Hours: 3-0
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
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, COM 315.
• Not eligible for supplemental examination.
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 220  Units: 1.5  Hours: 3-0
Formerly: 120
Organizational Behaviour
Introduction to behavioural 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
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.
Note: 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
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.
Note: 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
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
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
Business Law
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.
Note: 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
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
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 choice decisions, 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
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.
Notes:
• Credit will be granted for only one of COM 317, COM 210, COM 270, COM 316.
• Not eligible for supplemental examination.
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): COM 202.

COM 321  Units: 1.5  Hours: 3-0-1
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: 3-0-1
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
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
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 - COM 425

COM 351  Units: 1.5  Hours: 3-0
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 industry and international contexts.
Prerequisite(s): Admission to BCom program core.

COM 361  Units: 1.5  Hours: 3-0
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
Formerly: 305 and part of 361 (prior to 2006W Session)
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 transition to more sustainable practices.
Note: Credit will be granted for only one of COM 362, COM 305 (if taken prior to September 2006), COM 361 (if taken prior to September 2006).
Prerequisite(s): Admission to BCom program core.

COM 371  Units: 1.5  Hours: 3-0
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
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 Business Exchange program; or
- permission of the school.

COM 400  Units: 1.5  Hours: 3-0
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): All of COM 315, COM 316, COM 321, COM 322, COM 331, COM 341, COM 351, COM 361, COM 362, COM 371.

COM 402  Units: 1.5  Hours: 3-0
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):
- 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.

COM 403  Units: 1.5
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/employee 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
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):
- COM 205; and
- minimum fourth-year standing.
Grading: INP, COM, N, F

COM 410  Units: 1.5  Hours: 3-0
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
Also: MBA 522
Business and the Internet
Business is going global, and traditional markets are rapidly giving way to the electronic marketplace. 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 230 or COM 331; and
- minimum fourth-year standing; or
- permission of the school.

COM 420  Units: 1.5  Hours: 3-0
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 and COM 310, or COM 321 and COM 322; and
- minimum fourth-year standing; or
- permission of the school.

COM 425  Units: 1.5  Hours: 3-0
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
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
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
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
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
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
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
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 - Units: 1.5  Hours: 3-0
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

COM 490 - Units: 1.5
Directed Studies in Management
A specialized course which is a guided study under the supervision of a faculty member. Students interested in completing a directed studies course are responsible for selecting their topic and finding a faculty member willing to act as their supervisor. When agreement has been reached between the student and faculty member, a Directed Studies Proposal, outlining the project and the paper, must be completed, signed by both the student and faculty member, and submitted to the BCom office for final approval.

Prerequisite(s): Permission of the school.

COM 495 - Units: 1.5  Hours: 3-0
Marketing Communications
Focuses on effectively communicating ideas, goods, or services to internal and external audiences by developing an integrated marketing communications plan. A hands-on project brings the theory to life. Covers the development of a strategic campaign using both online and offline tools and advertising, sales promotion, direct marketing and public relations tactics. Useful for careers in marketing, advertising, social media, service management and entrepreneurship.

Prerequisite(s):
• COM 250 or COM 351; and
• minimum fourth-year standing; or
• permission of the school.

COM 499 - Units: 1.5  Hours: 3-0
Formerly: IB 410, 499, ENT 499, HOS 499
International Management and Environment
Conducted overseas as part of INTEP. Provides students with an opportunity to understand how a country’s unique cultural, economic, geographical, historical, legal and political environments affect the way business is done in that country.

Note: Credit will be granted for only one of COM 499, ENT 499, HOS 499, IB 410, IB 499, TRM 499.

Prerequisite(s): Admission to Business Exchange program.

Grading: INP, N, F, standard grade

CS

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
Formerly: CS 100A
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 in Canadian Studies.

CS 102 - Units: 1.5  Hours: 3-0
Formerly: CS 100B
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 in Canadian Studies.
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**CS 200 - CSC 167**

**CS 200**

**Units:** 1.5  **Hours:** 3-0

**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

**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), CENG (Computer Engineering), CIVE (Civil Engineering), ELEC (Electrical Engineering), ENGR (Engineering), MECH (Mechanical Engineering) and SENG (Software Engineering).

**CSC 100**

**Units:** 1.5  **Hours:** 3-1

**Elementary Computing**
An introduction to computing for the non-specialist. 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. Hands-on experience with a microcomputer and the use of some practical software packages are given.

**Note:** 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. Normally not open to students with credit in ICT 11 applied digital communications or ICT 11 computer programming or equivalent.

**CSC 105**

**Units:** 1.5  **Hours:** 3-1

**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.

**Note:** 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.

**CS 106**

**Units:** 1.5  **Hours:** 3-1

**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.

**CSC 110**

**Units:** 1.5  **Hours:** 3-2

**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.

**CSC 111**

**Units:** 1.5  **Hours:** 3-2

**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.

**CSC 115**

**Units:** 1.5  **Hours:** 3-2

**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.

**CSC 116**

**Units:** 1.5  **Hours:** 3-2

**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 115, CSC 160.

**Prerequisite(s):** CSC 110 or CSC 111.

**CSC 120**

**Units:** 1.5  **Hours:** 3-1

**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.

**CSC 121**

**Units:** 1.5  **Hours:** 3-2

**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.

**Note:** 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.**
20D Computer Graphics and Image Processing

Vectors, parametric/implicit, RGB colours, lines, circles, barycentric coordinates, rasterization, image filtering, sampling, aliasing and anti-aliasing, compression, UI for image processing.

Note: Not open to students with credit in CSC 305 or CSC 405.

Pre- or Corequisite(s):
- MATH 131 or MATH 211, and
- SENG 265.

CSC 225 Units: 1.5 Hours: 3-1
Algorithms and Data Structures I


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

CSC 226 Units: 1.5 Hours: 3-1
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.

CSC 230 Units: 1.5 Hours: 3-1.5
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, CSC, 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.

Prerequisite(s): CSC 115 or CSC 116.

CSC 299 Units: 1.5 Hours: 0-6
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 310 with a minimum grade of B+, SENG 265 with a minimum grade of B+; and
- permission of the department.

CSC 305 Units: 1.5 Hours: 3-1
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: 3-1
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
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
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
- CSC 230 or CENG 255.

Pre- or Corequisite(s): CSC 320 and CSC 360.

CSC 349A Units: 1.5 Hours: 3-0
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 200 and MATH 201, or MATH 202, or MATH 204.

CSC 350 Units: 1.5 Hours: 3-0
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, lookahead 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
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): CSC 230 and MATH 122.

CSC 360 Units: 1.5 Hours: 3-1
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, CPU scheduling, deadlocks, memory management, file systems and protection.

Prerequisite(s):
- CSC 226 and SENG 265, and
- CSC 230 or CENG 255.
CSC 361 - CSC 445

CSC 361  
Units: 1.5  
Hours: 3-2  
**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.  
**Prerequisite(s):**  
- SENG 265; and  
- CSC 230 or CENG 255.  
**Pre- or Corequisite(s):** CSC 226.

CSC 370  
Units: 1.5  
Hours: 3-0  
**Formerly:** 470  
**Database Systems**  
The use and operating principles of database management systems. Topics include: data entities and relationships; data modelling using Entity-Relation 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  
**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  
**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  
**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.  
**Prerequisite(s):**  
- CSC 226; and  
- minimum fourth-year standing.

CSC 422  
Units: 1.5  
Hours: 3-0  
**Graph 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 subclasses, 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  
**Randomized 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 algorithms, 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 425  
Units: 1.5  
Hours: 3-0  
**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 425, CSC 420.  
**Prerequisite(s):** CSC 320.

CSC 426  
Units: 1.5  
Hours: 3-0  
**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 428A  
Units: 1.5  
Hours: 3-0  
**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  
**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):**  
- Either CSC 320, or MATH 110 and STAT 254, MATH 222; and  
- minimum third-year standing.

CSC 435  
Units: 1.5  
Hours: 3-1  
**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 445  
Units: 1.5  
Hours: 1.5  
**Formerly:** 448A  
**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
Formerly: 448B
Operations Research: Simulation
An introduction to discrete event simulation. Topics include: elementary queuing theory, basic techniques of discrete event simulation, generating random numbers, sampling from non-uniform distributions, simulation programming using general purpose languages and also special purpose simulation languages.
Note: Credit will be granted for only one of CSC 446, CSC 448B.
Prerequisite(s):
• CSC 115 or CSC 116; and
• one of PHYS 342, STAT 252, STAT 254, STAT 255, STAT 260, GEOG 226; and
• minimum third-year standing.

CSC 449  Units: 1.5  Hours: 3-0
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 or CSC 340 with a minimum grade of B.

CSC 454  Units: 1.5  Hours: 3-0
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 460  Units: 1.5  Hours: 3-3
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.
Prerequisite(s):
• CSC 355 or CENG 355; and
• CSC 360.

CSC 461  Units: 1.5  Hours: 3-0
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
• CSC 361 or CENG 460.

CSC 462  Units: 1.5  Hours: 3-3
Distributed Computing
Note: Credit will be granted for only one of CSC 462, SENG 462.
Prerequisite(s):
• CSC 360; and
• one of CSC 361, CSC 450, CENG 460.

CSC 463  Units: 1.5  Hours: 3-0
Wireless and Mobile Networks
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.
Prerequisite(s): One of CSC 361, CSC 450, CENG 460.

CSC 464  Units: 1.5  Hours: 3-0
Concurrency
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.
Prerequisite(s): CSC 320 and CSC 360.

CSC 466  Units: 1.5  Hours: 3-0
Overlay and Peer-to-Peer Networking
Focuses 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.
Prerequisite(s): One of CSC 361, CSC 450, CENG 460.

CSC 467  Units: 1.5  Hours: 3-0
Switching, Network Traffic and Quality of Service
Prerequisite(s): One of CSC 361, CSC 450, CENG 460.

CSC 471  Units: 1.5  Hours: 3-1
Fundamentals of Computer Rendering.
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.
Prerequisite(s): CSC 305.

CSC 472  Units: 1.5  Hours: 3-1
Fundamentals of Computer Modelling
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.
Prerequisite(s): CSC 305.

CSC 473  Units: 1.5  Hours: 3-1
Fundamentals of Computer Animation
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.
Prerequisite(s): CSC 305.

CSC 475  Units: 1.5  Hours: 3-0
Music Retrieval Techniques
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.
Note: Credit will be granted for only one of CSC 475, CSC 484 (if taken in the same topic).
Prerequisite(s): Two of CSC 330, CSC 340, CSC 360, CSC 370, ELEC 260, ELEC 310, SENG 310, SENG 330.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>CSC 482A</td>
<td>1.5</td>
<td>3-0*</td>
<td>May be taken more than once for credit in different topics with permission of the department.</td>
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<td>Formerly:</td>
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<tr>
<td><strong>Topics in Algorithms</strong></td>
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<td>Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.</td>
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<td>* Lab hours may vary depending on the topic</td>
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<td><strong>Notes:</strong></td>
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<td>- 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).</td>
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| CSC 482B    | 1.5   | 3-0*  | May be taken more than once for credit in different topics with permission of the department. |
| Formerly:   | 482   |       |       |
| **Topics in Algorithms** |       |       |       |
| 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 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). |
| - May be taken more than once for credit in different topics with permission of the department. |

| CSC 482C    | 1.5   | 3-0*  | May be taken more than once for credit in different topics with permission of the department. |
| Formerly:   | 482   |       |       |
| **Topics in Algorithms** |       |       |       |
| 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 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). |
| - May be taken more than once for credit in different topics with permission of the department. |

| CSC 482D    | 1.5   | 3-0*  | May be taken more than once for credit in different topics with permission of the department. |
| Formerly:   | 482   |       |       |
| **Topics in Algorithms** |       |       |       |
| 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 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). |
| - May be taken more than once for credit in different topics with permission of the department. |

| CSC 483A    | 1.5   | 3-0*  | May be taken more than once for credit in different topics with permission of the department. |
| Formerly:   | 483   |       |       |
| **Topics in Programming Methodology** |       |       |       |
| Entrance will be restricted to third- and fourth-year students who meet the prerequisites 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 483A, CSC 483 (if taken in the same topic), CSC 483B (if taken in the same topic), CSC 483C (if taken in the same topic), CSC 483D (if taken in the same topic). |
| - May be taken more than once for credit in different topics with permission of the department. |

| CSC 483B    | 1.5   | 3-0*  | May be taken more than once for credit in different topics with permission of the department. |
| Formerly:   | 483   |       |       |
| **Topics in Programming Methodology** |       |       |       |
| Entrance will be restricted to third- and fourth-year students who meet the prerequisites 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 483B, CSC 483 (if taken in the same topic), CSC 483A (if taken in the same topic), CSC 483C (if taken in the same topic), CSC 483D (if taken in the same topic). |
| - May be taken more than once for credit in different topics with permission of the department. |

| CSC 483C    | 1.5   | 3-0*  | May be taken more than once for credit in different topics with permission of the department. |
| Formerly:   | 483   |       |       |
| **Topics in Programming Methodology** |       |       |       |
| Entrance will be restricted to third- and fourth-year students who meet the prerequisites 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 483C, CSC 483 (if taken in the same topic), CSC 483A (if taken in the same topic), CSC 483B (if taken in the same topic), CSC 483D (if taken in the same topic). |
| - May be taken more than once for credit in different topics with permission of the department. |

| CSC 483D    | 1.5   | 3-0*  | May be taken more than once for credit in different topics with permission of the department. |
| Formerly:   | 483   |       |       |
| **Topics in Programming Methodology** |       |       |       |
| Entrance will be restricted to third- and fourth-year students who meet the prerequisites specified for the topic to be offered. |
| * Lab hours may vary depending on the topic |
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| - Credit will be granted for only one of CSC 483D, CSC 483 (if taken in the same topic), CSC 483A (if taken in the same topic), CSC 483B (if taken in the same topic), CSC 483C (if taken in the same topic). |
| - May be taken more than once for credit in different topics with permission of the department. |

| CSC 484A    | 1.5   | 3-0*  | May be taken more than once for credit in different topics with permission of the department. |
| Formerly:   | 484   |       |       |
| **Topics in Scientific Computing** |       |       |       |
| 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 484A, CSC 484 (if taken in the same topic), CSC 484B (if taken in the same topic), CSC 484C (if taken in the same topic), CSC 484D (if taken in the same topic). |
| - May be taken more than once for credit in different topics with permission of the department. |

| CSC 484B    | 1.5   | 3-0*  | May be taken more than once for credit in different topics with permission of the department. |
| Formerly:   | 484   |       |       |
| **Topics in Scientific Computing** |       |       |       |
| 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 484B, CSC 484 (if taken in the same topic), CSC 484A (if taken in the same topic), CSC 484C (if taken in the same topic), CSC 484D (if taken in the same topic). |
| - May be taken more than once for credit in different topics with permission of the department. |

| CSC 484C    | 1.5   | 3-0*  | May be taken more than once for credit in different topics with permission of the department. |
| Formerly:   | 484   |       |       |
| **Topics in Scientific Computing** |       |       |       |
| 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 484C, CSC 484 (if taken in the same topic), CSC 484A (if taken in the same topic), CSC 484B (if taken in the same topic), CSC 484D (if taken in the same topic). |
| - May be taken more than once for credit in different topics with permission of the department. |

| CSC 484D    | 1.5   | 3-0*  | May be taken more than once for credit in different topics with permission of the department. |
| Formerly:   | 484   |       |       |
| **Topics in Scientific Computing** |       |       |       |
| 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 484D, CSC 484 (if taken in the same topic), CSC 484A (if taken in the same topic), CSC 484B (if taken in the same topic), CSC 484C (if taken in the same topic). |
| - May be taken more than once for credit in different topics with permission of the department. |
CSC 485A - CSC 486B

COURSE LISTINGS CSC
CSC 486C - Units: 1.5  Hours: 3-0*
Formerly: 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.

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.

CSC 486D - Units: 1.5  Hours: 3-0*
Formerly: 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.

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.

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):
• Minimum fourth-year standing in the Computer Science program; and
• permission of the department.

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 an interdisciplinary project, prepare a written report and to present a seminar describing the work.

Prerequisite(s):
• Fourth-year standing in a Computer Science Combined Program.

CSC 498 - Units: 1.5  Hours: 0-6
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.

CSC 499 - Units: 1.5  Hours: 1.5-4.5
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.

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.

CW
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
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
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, rhythm, 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.

CYC 100A - Units: 1.5  Hours: 3-0
Formerly: part of 100, 200.
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 100, CYC 200, CYC 200A, CYC 251.

CYC 100B - Units: 1.5  Hours: 3-0
Formerly: part of 100, 200.
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 200A, CYC 251.

Prerequisite(s):
CYC 100A.

CYC 101 - Units: 1.5
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.

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.
<table>
<thead>
<tr>
<th>COURSE LISTINGS CYC</th>
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| **CYC 132** Units: 1.5  
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  
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  
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. |
| **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. |
| **CYC 166B** Units: 1.5 Hours: 3-0  
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. |
| **CYC 171** Units: 1.5 Hours: 3-0  
Introduction to Families: Issues, Patterns, and Processes  
Introduces frameworks and theories for conceptualizing child and youth care practice with families who are experiencing a variety of challenges and difficulties. Taking an international perspective, family issues are explored in terms of diversity (sexual orientation, ethnic affiliation/identity, gender, and socio-economic status). The ultimate goal is to help students to understand the diversity and complexity of family issues, patterns and processes in local and international contexts in order to engage intentionally in practice.  
Note: Credit will be granted for only one of CYC 171, CYC 372 |
| **CYC 205** Units: 3.0 Hours: 3-0  
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. |
| **CYC 210** Units: 1.5 Hours: 1-10  
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: CYC 210 must be completed before CYC 310.  
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 230** Units: 1.5 Hours: 3-0  
Introduction to CYC Practice in Indigenous Contexts  
An exploration of Indigenous perspectives and contexts, both historical and contemporary, in relation to practice with Indigenous children, youth, families and communities. Readings, activities, and assignments provide an historical overview of colonization and describe various strategies for supporting decolonization and culturally relevant practice.  
Prerequisite(s): Minimum second-year standing. |
Cyc 265 - Cyc 364

Cyc 265
Units: 1.5
Hours: 3.0
Formerly: 465.
Introduction to Group Work in Child and Youth Care Practice
A presentation, in an experiential format, of theoretical approaches and techniques related to the planning and facilitation of groups for children and youth. Students will explore how to plan for, and to facilitate groups in a participatory, skill building, experiential learning format.
Notes:
• Credit will be granted for only one of Cyc 265, Cyc 465.
• Students who have completed equivalent prerequisites may request permission to register in the course.
Prerequisite(s):
• All of Cyc 100B, Cyc 152, Cyc 166A, Cyc 166B, Cyc 171; or
• permission of the school.

Cyc 280
Units: 1.5
Hours: 3.0
Creating Programs and Environments for Young Children
Focuses on promoting learners’ active engagement in critical reflection, dialogue and activities that lead to forming sustainable, innovative early childhood care and education environments.

Cyc 290
Units: 0.5, 1.0, 1.5 or 3.0
Directed Studies in Child and Youth Care
Research projects, additional coursework or directed readings in a specified area.

Cyc 310
Units: 4.5
Supervised Practicum II
Students work directly with children/youth in a supervised practice situation in order to promote professional skill acquisition and integration. Emphasis is placed on observation and recording skills, understanding the structure and functioning of a service agency, and fostering observation and recording skills, understanding the acquisition and integration. Emphasis is placed on practice situation in order to promote professional skill development.

Cyc 310A
Units: 4.5
Child and Youth Care Practicum by Prior Learning Assessment (PLA)
Students with significant work or volunteer experience in Child and Youth Care may complete the first Cyc practicum by Prior Learning Assessment. Students will present evidence of their prior learning and practice experience in the form of a portfolio which specifically demonstrates the learning objectives and outcomes required in 310.
Note: Credit will be granted for only one of Cyc 310A, Cyc 310.
Prerequisite(s):
• Admission to a program in Child and Youth Care; and
• permission of the school.
Recommendation(s): 5 years of paid Cyc experience strongly recommended prior to Cyc 310A.

Cyc 320
Units: 1.5
Hours: 3.0
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 330
Units: 1.5
Hours: 3.0
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 338
Units: 3.0
Hours: 3.0
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 335
Units: 1.5
Hours: 3.0
Formerly: 350B.
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 reflective reviewing.
Note: Credit will be granted for only one of Cyc 335, Cyc 350B.
Prerequisite(s): Cyc 250.

Cyc 351
Units: 3.0
Hours: 3.0
Applying Change Theory in Cyc Practice with Contemporary Families
Integrates theory and practice in the application of change theories in Cyc work with contemporary families. Focuses on issues and techniques in assessment; case planning and intervention, while studying major therapeutic approaches, associated philosophies, goals, strategies and techniques. Practical models for case consultation, presentation and evaluation will also be covered. Upon completion, students demonstrate competency in these professional practice areas, real and simulated, and analyze the relationship between professional knowledge, skills, values and individual styles.
Note: Credit will be granted for only one of Cyc 351, Cyc 205, Cyc 266, Cyc 356.
Prerequisite(s): Permission of the department.

Cyc 356
Units: 1.5
Hours: 3.0
Formerly: 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 3.0
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
Formerly: 354.
Attending to Disability in Child and Youth Care Practice
Critically engages with historical and current, global and local approaches to disability and social inclusions. 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, Hsd 464, Socw 469 (if taken prior to December 2010).
Prerequisite(s): Minimum second-year standing.
### CYC 370 - CYC 463

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#### CYC 370 - Leadership, Advocacy and Policy for the Early Years

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 - 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, HSD 470.

#### CYC 380 - 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 - 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 - Directed Studies in Child and Youth Care

Research projects, directed readings, or additional coursework in a specified area.

**Note:** May be taken more than once for credit in different topics.

#### CYC 410 - Advanced Supervised Practicum

This supervised practicum focuses on the student’s chosen professional area of interest and provides an opportunity to apply case planning, intervention, and evaluation skills at an advanced level. Professional consultation, clinical functioning, and the integration of theory and practice are emphasized. Students are required to complete 286 hours.

**Note:** More hours may be required for Specializations.

**Prerequisite(s):**
- CYC 310 or CYC 310A, 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.

**Corequisite(s):** All of CYC 410A, CYC 423, CYC 424, CYC 470, CYC 471, CYC 475.

#### CYC 410A - Advanced Supervised Block Practicum

A condensed 4 month practicum within which students are required to complete 286 hours. Some practicums are block practicums only, such as Child Life and Child Protection. Check with a practicum coordinator for more information.

**Note:** More hours may be required for Specializations.

**Prerequisite(s):**
- CYC 310 or CYC 310A, and
- all of CYC 338, CYC 350, CYC 356, CYC 364, CYC 370, CYC 410, CYC 423, CYC 424, CYC 470, CYC 471; and
- minimum fourth-year standing; and
- admission to a program in Child and Youth Care.

**Corequisite(s):** CYC 475.

#### CYC 423 - 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 - 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 - 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 - 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 - 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 462 - Perspectives on Substance Use in Child and Youth Care Practice

An introductory course on substance use and its impacts, particularly in relation to working with children, youth, families and communities. Students are expected to understand and critically reflect on a range of perspectives, and related practice responses relevant to CYC practitioners. The historical, social and political contexts of substance use among Indigenous peoples, women and youth will be explored.

**Note:** Credit will be granted for only one of CYC 462, HSD 462.

**Prerequisite(s):** Minimum third-year standing.

#### CYC 463 - Substance Use: Prevention and Treatment Approaches in Child and Youth Care Practice

An examination of current approaches to working with substance use at the individual, family and community levels. The intended outcomes and goals of treatment and prevention will be explored. Differing models of change as well as Indigenous approaches to healing and gender-specific approaches to treatment and prevention will be studied. Emphasis will be placed on the identification of appropriate strategies for effective CYC practice.

**Note:** Credit will be granted for only one of CYC 463, CYC 471.

**Prerequisite(s):**
- CYC 462, and
- minimum third-year standing; or
- permission of the school.
**CYC 467**  
Units: 1.5  
**Interdisciplinary Practice with Children, Youth and Families**  
Opportunities for applying the skills and knowledge essential for effective interdisciplinary practice with children and families in a CYC perspective. Explores the rationale for, and develops a critical analysis of, interdisciplinary practice. The contributions of different disciplines to addressing issues in child and family work will be featured.

**Note:** Credit will be granted for only one of CYC 467, HSD 465, SOCW 465 (if taken prior to December 2010).

**Prerequisite(s):** Minimum third-year standing.

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**CYC 470**  
Units: 1.5  
**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 key concepts, 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 205, and  
- minimum third-year standing.

**Corequisite(s):** CYC 338.

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**CYC 471**  
Units: 1.5  
**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.

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**CYC 475**  
Units: 3.0  
**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.

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**CYC 476**  
Units: 1.5  
**Child and Youth Care Practice with Families**  
Focuses on the development of skills related to child and youth care practice with families. Students are required to apply theory through interventions for children, parents, and their families based on assessed needs and identified goals. Students work in a laboratory environment and receive feedback on their approaches and style of working with families.

**Note:** Credit will be granted for only one of CYC 476, CYC 473.

**Prerequisite(s):**  
- CYC 265 or CYC 465; and  
- one of CYC 266, CYC 356, CYC 466.

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**CYC 480**  
Units: 1.5  
**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.

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**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.

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**CYC 490**  
Units: 0.5, 1.0, 1.5 or 3.0  
**Directed Studies in Child and Youth Care**  
Research projects, directed reading, or additional coursework in a specified area.

**Note:** May be taken more than once for credit in different topics.

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**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.

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

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**CYCB 110**  
Units: 1.5  
**Indigenous Community-based Child and Youth Care**  
**School of Child and Youth Care**  
**Faculty of Human and Social Development**

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**CYCB 111**  
Units: 1.5  
**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.

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**CYCB 112**  
Units: 1.5  
**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.

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**CYCB 120**  
Units: 1.5  
**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 - CYCB 230

**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.

**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.

**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- or Corequisite(s): CYCB 122.

**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 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.

**Caring and Learning Environment (ECCE)**
 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 give 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.

**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.

**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.

**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.

**Introduction to School-Age Care (CYC)**
 An overview of school-age care. Students explore the needs and interests of children, families, and care providers regarding school-age care. They explore the developmental needs of school-age children, and consider the implications of children’s developmental needs for school-age practice. In addition, students are introduced to planning and implementing a program of care for diverse groups of school-age children. Acknowledges and builds on the knowledge that students already possess, and includes activities intended to elicit students’ perspectives based on their own experience. Throughout the course Elders and students generate insights into the care of school-age children from their own community and culture.

Note: Elective.

**Introduction to Programs For Adolescents (CYC)**
 An overview of adolescent development and supportive work with youth. Students learn the importance of understanding the psychological and sociological context within which youth live. They learn how to identify issues to which workers might be required to respond, how to become informed about these issues, and how they relate to the cultural context in which particular adolescents live. In addition, students explore intervention possibilities and how these interventions relate to specific issues in particular cultural contexts. Acknowledges and builds on the knowledge of adolescents that students already possess, and includes activities intended to elicit students’ perspectives of their experience. Throughout the course, Elders and students will work from the perspective of their own community and culture to generate knowledge about supporting adolescents.

Note: Elective.

**Program Development for Infants and Toddlers**
 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.

Note: Elective.

**The Ecology of Health, Safety and Nutrition for Children**
 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.

Note: Elective.
### CYCB 231 - DHUM 350

<table>
<thead>
<tr>
<th>Code</th>
<th>Units</th>
<th>Hours:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CYCB 231</strong></td>
<td>1.5</td>
<td>4-0</td>
<td>Administration of Child Care Facilities</td>
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<tr>
<td></td>
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<td>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.</td>
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<td><strong>Note:</strong></td>
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<td>Elective</td>
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<tr>
<td><strong>CYCB 240</strong></td>
<td>1.5</td>
<td>4-0</td>
<td>Introduction to Supported Child Care for Children with Special Needs</td>
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<td>An exploration of a range of methods for meeting the needs of children who require additional supports. Focuses 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 rural practice and critically examine the principles of cultural responsiveness in inclusive child care.</td>
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<td><strong>Note:</strong></td>
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<td>Elective</td>
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<tr>
<td><strong>CYCB 250</strong></td>
<td>1.5</td>
<td>4-0</td>
<td>Introduction to Planned Change</td>
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<td>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).</td>
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<tr>
<td><strong>CYCI</strong></td>
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<td>Child and Youth Care International</td>
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<tr>
<td><strong>CYCI 460</strong></td>
<td>1.5</td>
<td>3.0</td>
<td>Special Topics</td>
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<td>Topics vary according to learner priorities and context. Topics have included (and may include in future): Studies of Early Childhood Development (ECD) Policy Analysis, Development and Implementation; Quality in ECD Programming; Networking; and Information Technology Skills for ECD.</td>
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<tr>
<td><strong>Note:</strong></td>
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<td>Two special topics courses in Child and Youth care are required for completion of the Professional Specialization Certificate in International Child and Youth Care.</td>
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<tr>
<td><strong>CYIC 484</strong></td>
<td>1.5</td>
<td>3.0</td>
<td>Historical and Contemporary Theoretical Perspectives in ECD</td>
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<td>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.</td>
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<tr>
<td><strong>CYCI 485</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>Child and Adolescent Development in Context</td>
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<td>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.</td>
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<tr>
<td><strong>CYCI 486</strong></td>
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<td>3-0</td>
<td>Professional Leadership in Early Childhood Care and Development</td>
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<td>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.</td>
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<tr>
<td><strong>CYCI 487</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>Models, Programs and Strategies for Intervention in ECD</td>
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<td>An international holistic, ecological approach to Early Childhood Care and Development (ECCD) programming models. Learners will gain an understanding of ECCD programming principles, assessment techniques, processes for setting project goals and making programming choices, as well as what is required for program implementation, evaluation and financing, by completing an in-depth analysis of an existing program.</td>
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<tr>
<td><strong>DHUM</strong></td>
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<td>Digital Humanities</td>
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<tr>
<td><strong>DHUM 150</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>Tools, Techniques, and Culture of the Digital Humanities</td>
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<td>A survey of the tools, techniques and culture of humanities computing. Topics include: impact of computing on society and academia; strategies for online research; evaluation of 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.</td>
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<td><strong>Note:</strong></td>
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<td>Credit will be granted for only one of DHUM 150, HUMA 150.</td>
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<tr>
<td><strong>DHUM 250</strong></td>
<td>1.5</td>
<td>1-2</td>
<td>Digital Representation and Creation in a Humanities Context</td>
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<td>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.</td>
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<tr>
<td><strong>Note:</strong></td>
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<td>Credit will be granted for only one of DHUM 250, HUMA 250.</td>
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<tr>
<td><strong>Prerequisite(s):</strong></td>
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<td>• DHUM 150 or HUMA 150, or permission of the department.</td>
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<tr>
<td><strong>DHUM 350</strong></td>
<td>1.5</td>
<td>1-2</td>
<td>Key Applications: Electronic Publishing and Computer-Assisted Analysis</td>
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<td>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-XSL); 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.</td>
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<td><strong>Note:</strong></td>
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<td>Credit will be granted for only one of DHUM 350, HUMA 350.</td>
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<tr>
<td><strong>Prerequisite(s):</strong></td>
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<td></td>
<td>• DHUM 150 or HUMA 150, or permission of the department.</td>
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</tbody>
</table>
**DHUM 450**  
Units: 1.5  
Hours: 1-2  
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.

**DHUM 491**  
Units: 1.5  
Hours: 3-0  
Formerly: HUMA 491  
**Directed Studies in Digital Humanities**  
A directed studies course in an area of the digital humanities. May be combined with curriculum offered by the Digital Humanities Summer Institute.  
**Notes:**  
- Credit will be granted for only one of DHUM 491, HUMA 491 (if taken in the same topic).  
- May be taken more than once for credit in different topics.  
**Prerequisite(s):** Permission of the department.

**DSST**  
**Disability Studies**  
School of Public Health and Social Policy  
Faculty of Human and Social Development  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>DSST 440</td>
<td>1.5</td>
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<tr>
<td>Formerly:</td>
<td>part of 442</td>
<td></td>
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<tr>
<td><strong>Introduction to Disability Studies</strong></td>
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<td>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.</td>
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<tr>
<td><strong>Note:</strong> Credit will be granted for only one of DSST 440, DSST 442.</td>
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<tr>
<td>DSST 441</td>
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<tr>
<td><strong>Enabling Technologies</strong></td>
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<td>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.</td>
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**ECON**  
**Economics**  
**Department of Economics**  
**Faculty of Social Sciences**  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ECON 100</td>
<td>1.5</td>
<td>3-0</td>
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<tr>
<td><strong>The Canadian Economy - Problems and Policies</strong></td>
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<tr>
<td>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.</td>
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<td><strong>Note:</strong> Not open for credit to students registered in or with credit in any of ECON 103, ECON 103C, ECON 104, ECON 180.</td>
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<td>ECON 103</td>
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<tr>
<td><strong>Principles of Microeconomics</strong></td>
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<tr>
<td>The principles of microeconomic analysis with special reference to the theory of demand, the theory of the firm and the theory of distribution.</td>
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</table>
| **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. | | |  
| ECON 104    | 1.5   | 3-1   |  
| **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    | 1.5   | 3-0   |  
| **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 ES 312 have already been completed.  
- ECON 111, and ECON 381 or ES 312 cannot be taken concurrently. | | |  

**ECON 112**  
Units: 1.5  
Hours: 3-0  
**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  
**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  
Formerly: 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 BSEng program.  

**ECON 185**  
Units: 1.5  
Hours: 3-0  
**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  
**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 300, 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
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
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
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: i) received a minimum grade of B+ in one of ENGL 135, ENGL 146, ENGL 147, or ii) 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
Descriptive Statistics and Probability
Notes:
• Credit will be granted for only one of ECON 245, ECON 240.
• See “Credit Limit - Beginning Level Statistics Courses”.

ECON 246 Units: 1.5 Hours: 3-1
Statistical Inference
Estimation, confidence intervals and hypotheses 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 252.
• STAT 252 cannot be used to satisfy the prerequisites.

ECON 305 Units: 1.5 Hours: 3-0
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
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 310A Units: 1.5 Hours: 3-0
Competition Economics I
Economic models and empirical examples of industrial competition. Topics may include perfect competition, monopoly, game theory, oligopoly, mergers, collusion, deterring entry, technological change, price discrimination, tying, bundling, resale price maintenance, exclusive dealing.
Note: Credit will be granted for only one of ECON 310A, ECON 310.
Prerequisite(s): One of ECON 103, ECON 103C, ECON 180.

ECON 310B Units: 1.5 Hours: 3-0
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 310B, ECON 310.
Prerequisite(s):
• ECON 310A; 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 311A Units: 1.5 Hours: 3-0
The Economic Analysis of Property and Contract
An introduction to the economic analysis of law and legal institutions as applied to property and contract, and related topics.
Note: Credit will be granted for only one of ECON 311A, ECON 308, ECON 408, ECON 408A, ECON 408B.
Prerequisite(s):
• One of ECON 103, ECON 103C, ECON 180; and
• ECON 104; and
• Academic Writing Requirement satisfied.
Recommendation(s): ECON 203 recommended prior to ECON 311A.

ECON 311B Units: 1.5 Hours: 3-0
The Economic Analysis of Tort and Crime
An introduction to the economic analysis of law and legal institutions as applied to tort and crime, and related topics.
Note: Credit will be granted for only one of ECON 311B, ECON 308, ECON 408, ECON 408A, ECON 408B.
Prerequisite(s):
• One of ECON 103, ECON 103C, ECON 180; and
• ECON 104 and ECON 311A; or
• permission of the department.
Recommendation(s): ECON 203 recommended prior to ECON 311B.

ECON 312 Units: 1.5 Hours: 3-0
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: 3-1
Intermediate Microeconomics 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
The Economics of Canadian Health Care
An analysis of resource allocation in the Canadian health care sector. Topics include the specific 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
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
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
- 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 321 - Units: 1.5 - Hours: 3-0
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
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
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 borne infrastructure, especially sail and steam shipping and the impact of the railroads; 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
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
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.
Note: Credit for this course will not be counted toward degree programs in Economics, but Economics students may take this course as an elective.
Prerequisite(s): Minimum second-year standing.

ECON 333 - Units: 1.5 - Hours: 3-0
Introduction to Economic Growth
Prerequisite(s):
- ECON 204, and
- ECON 246 or STAT 261.

ECON 337 - Units: 1.5 - Hours: 3-0
History of Economic Thought to 1870
Economics from Mercantilism up to 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
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 - ECON 401

**ECON 339**  
Units: 1.5  
Hours: 3-0  
Formerly: 439  
**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 marriage 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  
**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.  
**Recommendation(s):** ECON 203 and ECON 204 recommended prior to ECON 345.

**ECON 350**  
Units: 1.5  
Hours: 3-1  
Formerly: 250  
**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  
Formerly: 251  
**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 251.  
**Prerequisite(s):** ECON 350.

**ECON 365**  
Units: 1.5  
Hours: 3-1  
**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 104; 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  
**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  
**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 or ECON 205.

**ECON 381**  
Units: 1.5  
Hours: 3-0  
Also: ES 312  
Formerly: 330  
**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  
Formerly: part of 430A  
**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):** One of ECON 103, ECON 103C, ECON 180.

**ECON 383**  
Units: 1.5  
Hours: 3-0  
**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 climate change, and analyze the prospects of proposed solutions to global warming.  
**Note:** Credit for this course will not be counted toward degree programs in Economics, but Economics students may take this course as an elective.  
**Prerequisite(s):** Minimum second-year standing.

**ECON 400**  
Units: 1.5  
Hours: 3-0  
**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  
- declared Honours in Economics (BSc); or  
- permission of the department.

**ECON 401**  
Units: 1.5  
Hours: 3-0  
**Advanced Topics in Macroeconomic Theory**  
**Prerequisite(s):**  
- All of ECON 204, ECON 313, ECON 350, ECON 351; and  
- declared Honours in Economics (BSc); or  
- permission of the department.
ECON 403 - Units: 1.5 - Hours: 3-0
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 405A - Units: 1.5 - Hours: 3-0
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.
Pre- or Corequisite(s): ECON 306.

ECON 405B - Units: 1.5 - Hours: 3-0
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
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
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
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
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
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; or
- permission of the department.
Recommendation(s): ECON 310A, and ECON 345 or ECON 365 recommended prior to ECON 413.

ECON 416 - Units: 1.5 - Hours: 3-0
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
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 - Units: 1.5 - Hours: 3-0
Issues in European Economic Integration
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 435 - Units: 1.5 - Hours: 3-0
Financial Economics
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  Units: 1.5  Hours: 3-0
Philosophical Problems in Contemporary Economics
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  Units: 1.5  Hours: 3-1
Game Theory in Economics
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  Units: 1.5  Hours: 3-0
General Equilibrium and Welfare Economics
Selected topics in general equilibrium theory and welfare economics.
Prerequisite(s):
ECON 313 and ECON 350.

ECON 452  Units: 1.5  Hours: 3-0
Information and Incentives
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  Units: 1.5  Hours: 3-0
Economic Growth
Models of economic growth and fluctuations in the medium to long run. Neoclassical and endogenous growth theories and tests of these theories. Roles 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  Units: 1.5  Hours: 3-0
Theory of Corporate Finance
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, ECON 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  Units: 1.5  Hours: 3-0
Experimental Economics
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  Units: 1.5  Hours: 3-1
Formerly: 353
Computational Economics
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
- ECON 246 or STAT 261; 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 350 recommended prior to ECON 457.

ECON 458  Units: 1.5  Hours: 3-0
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; and
- 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 468  Units: 1.5  Hours: 3-1
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; and
- 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
Formerly: ECON 371, half of ECON 315
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
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
Formerly part of 430A
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 430A.
Prerequisite(s): ECON 313 and ECON 382.
Pre- or Corequisite(s): ECON 351.

ECON 485 Units: 1.5 Hours: 3-0*
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.
Prerequisite(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
Topics in Econometrics
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.
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(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 489 Units: 1.5 or 3.0
Directed Studies
Directed reading and/or research for Major and Honours students with first-class standing in Economics under the supervision of a faculty member willing to supervise such a course.
Note: May be taken more than once for credit in different topics to a maximum of 3 units.
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.

ECON 496 Units: 1.5
Directed Experimental 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
• 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 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 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 200.

ED-D 301 Units: 1.5
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 305, EDUC 301.
Prerequisite(s): Registration in a program in Teacher Education.

ED-D 305 Units: 1.5
Psychology of Childhood
The study of human growth and development and the way in which biological and environmental factors influence the child over time.
Prerequisite(s): Permission of the faculty.
ED-D 306 Units: 1.5 Hours: 3-0
Advanced Educational Psychology: Child Development During the Preschool Years
An advanced course with special emphasis on early education; consideration of language, motor skills, and cognitive development, from birth to six years. Observation techniques, the interview, and other approaches to child study will be stressed.
Prerequisite(s):
- ED-D 305; or
- permission of the department.

ED-D 316 Units: 1.5 Hours: 3-0
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
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
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
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
Evaluation of Student Achievement in Sciences 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 400 Units: 1.5 Hours: 3-0
Learning Difficulties in the Elementary Classroom
An introduction to the nature, scope and recognition of learning difficulties commonly encountered in the elementary classroom.

ED-D 401 Units: 1.5 Hours: 3-0
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 403.
Prerequisite(s): Registration in a program in Teacher Education.

ED-D 402 Units: 1.5 Hours: 3-0
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.
Prerequisite(s):
- ED-D 401; and
- admission to Professional Specialization Certificate in Special Education program.

ED-D 403 Units: 4.5 Hours: 4.5-0
Educating the Developing Learner
An integrated approach to planning for effective learning and to managing ineffective learning patterns in children. The developmental needs of children, their learning characteristics and the cultural and multicultural factors in the modern classroom will be considered.
Note: Credit will be granted for only one of ED-D 403, ED-D 400, ED-D 401.
Prerequisite(s):
- Admission to Post Degree Professional program in Elementary Education; or
- permission of the program.

ED-D 404 Units: 1.5 Hours: 3-0
Advanced Educational Exceptionality
An advanced course intended to familiarize students with the needs of children and adolescents with varying exceptionalities. Topics include history of special education services, legal/ethical issues in the delivery of service to students with special needs; special education policies and procedures, parents and families of children with special needs, intellectual disabilities, learning disabilities, emotional disturbance, giftedness, children with speech and language problems, complex developmental disorders, hearing and vision loss, physical impairments, and chronic health problems.
Prerequisite(s): Admission to Professional Specialization Certificate in Special Education program.

ED-D 405 Units: 1.5 Hours: 3-0
Psychology of Adolescence
The physiological, psychological, social and educational aspects of adolescence.
Prerequisite(s): Registration in a program in Teacher Education.

ED-D 406 Units: 1.5 Hours: 3-0
Psychology of the Classroom

ED-D 407 Units: 1.5 Hours: 3-0
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
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
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, EDUC 430.
Prerequisite(s): Admission to a program in Teacher Education.
Grading: INC, COM, N, F

ED-D 411 Units: 1.5 Hours: 3-0
Teaching Students with Behavioural, Social 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.
ED-D 414 Units: 1.5 Hours: 3-0
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: 3-3
Level B Assessment and Instructional Programming
A consideration of assessment strategies and instructional methods and materials appropriate for the identification and prevention 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.
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
Effective Interpersonal Communication Skills for Special Education
Basic interpersonal communication skills for active listening and empathetic communication emphasizing the development and maintenance of positive, helpful 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 online in the Diploma in Special Education).
Prerequisite(s): Admission to Diploma program in Special Education.

ED-D 417 Units: 1.5 Hours: 3-0
Skills for Effective Interpersonal Communication
Basic interpersonal communication skills for active listening, empathetic 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
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
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
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
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
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 high/low 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 423 Units: 1.5
Approaches to Cross-Cultural Education
Designed for those working or planning to work in a multicultural environment. Specific emphasis will be on cross-cultural awareness and the role of counselling in cross-cultural settings. Students will examine ethnocultural identity development and minority experience in Canada; explore the psychological and sociological impacts of racism; be introduced to theories of multicultural counselling; and engage in cross-cultural sensitivity and anti-racism training.

ED-D 424 Units: 1.5 Hours: 3-0
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.

ED-D 425 Units: 1.5 Hours: 3-0
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.

ED-D 426 Units: 1.5 Hours: 3-0
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).

ED-D 427 Units: 1.5 Hours: 3-0
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 445 Units: 1.5 Hours: 3-0
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. Students from all faculties will gain essential knowledge and skills for making a more successful transition into the world of work.
Recommendation(s): Recommended for students nearing the end of their degree program.

ED-D 480 Units: 1.5 or 3.0 Hours: 3-0
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
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-P 494 - EDCI 208

ED-D 494 Units: 1.5 each
Directed Studies
Research projects, directed reading, or additional coursework in a specified area.
Notes:
• For Form 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 499 Units: 0.5-3.0
Professional Development
A variable content course directed at specific competencies in educational psychology, counselling and/or leadership studies.
Note: Not more than 3 units of credit for any 499 courses may be used as electives in an education degree program unless approval is obtained from the Faculty Adviser of the student’s program.
Grading: INC, COM, N, F

ED-P Curriculum and Instruction Studies
Department of Curriculum and Instruction
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.

ED-P 251 Three-Week Practicum (Elementary Education) Units: 1.5
Notes:
• Credit will be granted for only one of ED-P 251, ED-P 200.
• Normally takes place in the spring term.
Pre- or Corequisite(s): ED-P 250 or EDCI 250.
Grading: INP, COM, N/X, F/X

ED-P 301 Internship/Community Experience Units: 1.5
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, F

ED-P 351 Six-Week Practicum (Elementary Education) Units: 1.5
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.
Pre- or Corequisite(s): One of ED-P 251, ED-P 350, EDCI 330.
Grading: INP, COM, N/X, F/X

ED-P 361 Six-Week Practicum (Elementary or Middle Years Post Degree) Units: 1.5
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.
Pre- or Corequisite(s): ED-P 360 or EDCI 360.
Grading: INP, COM, N/X, F/X

ED-P 451 Nine-Week Practicum (Elementary Education) Units: 3.0
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 fall term.
Prerequisite(s): ED-P 451.
Grading: INP, COM, N/X, F/X

ED-P 461 Nine-Week Elementary Practicum (Elementary or Middle Years Post Degree) Units: 3.0
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 461.
Grading: INP, COM, N/X, F/X

ED-P 496 Mentoring in Teaching Units: 0.5-1.5
Formerly: EDUC 496
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 Professional Seminar or Practicum Units: 1.5 or 3.0
Formerly: ME 208
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 Seminar and Two-Week Practicum for BEd (Secondary Curriculum) Units: 1.5
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 Professional Development Professional Studies Units: 0.5-3.0
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: INC, COM, N, F

ED-P 781 Six-Week Practicum (Secondary Post-Degree) Units: 1.5
Notes:
• Normally takes place in the spring term.
Pre- or Corequisite(s): ED-P 780 or EDCI 780.
Grading: INP, COM, N/X, F/X

ED-P 782 Nine-Week Practicum (Secondary Post-Degree) Units: 3.0
Notes:
• Normally takes place in the fall term.
Prerequisite(s): ED-P 781.
Grading: INP, COM, N/X, F/X

ED-P 798 Final Sixteen-Week Practicum (Secondary) Units: 3.0 or 4.5
Final practicum includes four weeks of observation followed by twelve weeks of teaching.
Note: Normally takes place from January to May.
Prerequisite(s): Successful completion of pre-practicum term.
Grading: INP, INC, COM, N, F/X

EDCI Curriculum and Instruction Studies
Department of Curriculum and Instruction
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.

EDCI 208 Units: 1.5 Hours: 1.5-1.5
Formerly: ME 208
Studio Piano Class I
Development of piano keyboard skills: technique, simple harmonic analysis, sight reading, transposition and accompaniment patterns. For those with little or no piano background. Students with basic piano skills should register in EDCI 308.
Note: Credit will be granted for only one of EDCI 208, ME 208.
EDCI 250 - EDCI 312

EDCI 250  Units: 1.5  Hours: 3-0
Formerly: ED-P 250
Elementary Field Experience Seminar I
Designed to provide an opportunity for students to orient themselves to the culture of the school and to become familiar with the multiple and complementary roles and responsibilities of school personnel. Students will be encouraged to visit a variety of classrooms in conjunction with their seminar and to observe for specific indicators of climate, programming and group management. Curricular lesson and unit planning will be done in pairs as a co-teaching model.
Note: Credit will be granted for only one of EDCI 250, ED-P 200, ED-P 250.
Grading: JMP, COM, N, F

EDCI 300  Units: 1.5  Hours: 3-0
Mathematical Processes
The application of mathematical processes (Problem Solving, Reasoning and Proof, Representation, Communication, Connections, Technology, Mental Mathematics and Visualization) and a survey of mathematical knowledge for teaching.

EDCI 302  Units: 1.5  Hours: 3-0
Formerly: EDUC 302
Literacy and Language in Elementary or Middle School
An overview of the teaching of language arts and the development of oral language and literacy in the elementary or middle school. An introduction to strategies for addressing the diverse needs of learners will be included.
Note: Credit will be granted for only one of EDCI 302, EDUC 302, ED-B 748.
Prerequisite(s): Admission to a program in Teacher Education.

EDCI 303  Units: 1.5  Hours: 3-0
Formerly: EDUC 303
Historical and Philosophical Foundations of Canadian Education
Focuses on historical events and philosophical ideas that have impacted learners and teachers in Canadian schools.
Note: Credit will be granted for only one of EDCI 303, EDUC 303, ED-B 420, ED-B 423.
Prerequisite(s): Admission to a program in Teacher Education.

EDCI 305A  Units: 1.5  Hours: 3-0
Formerly: part of 305
Drama Education: 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 school. Through a workshop format, students will explore the principles and methods of instruction for initial classroom implementation.
Note: Credit will be granted for only one of EDCI 305A, EDCI 305, DE 204, DE 304, EDUC 305.
Prerequisite(s): Admission to a program in Teacher Education.

EDCI 305B  Units: 1.5  Hours: 3-0
Formerly: part of 305
Drama Education: A Medium for Learning II
The integration of drama as a learning medium across the curriculum with a focus on language arts. Through the examination and progression of instructional strategies, students will broaden their understanding of educational drama and its role in the development of multiple literacies.
Note: Credit will be granted for only one of EDCI 305B, EDCI 305, DE 204, DE 304, EDUC 305.
Prerequisite(s): Admission to a program in Teacher Education.

EDCI 306A  Units: 1.5  Hours: 3-0
Formerly: part of 306
Music in the Elementary Classroom I
An introduction to music education, designed to give students with little or no music background a foundation for teaching music and evaluating musical learning in the elementary classroom. An understanding of musical concepts will be developed through singing, listening, playing, moving, dramatizing, composing, improvising, reading and writing. Music reading skills will be developed through the playing of classroom instruments.
Note: Credit will be granted for only one of EDCI 306A, EDCI 306, EDUC 306, ME 204, ME 206, ME 304.
Prerequisite(s): Admission to Bachelor degree or Post Degree Professional program in Elementary Education.

EDCI 306B  Units: 1.5  Hours: 3-0
Formerly: part of 306
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. Students will have the opportunity to work in ensemble settings using classroom instruments such as recorders, Orff instruments, guitars and ukuleles to arrange accompaniments, improvise and compose. Students will 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): Admission to a program in Teacher Education.

EDCI 306C  Units: 1.5  Hours: 3-0
Formerly: part of 306
Music in the Elementary Classroom III
A continued development of the musical skills and concepts learned in 306B with a focus on music teaching and learning strategies for the intermediate grades. Students will have the opportunity to work in ensemble settings using classroom instruments such as recorders, Orff instruments, guitars and ukuleles to arrange accompaniments, improvise and compose. Students will plan units around selected topics.
Note: Credit will be granted for only one of EDCI 306C, EDCI 306, EDUC 306, ME 204, ME 206, ME 304.
Prerequisite(s): Admission to a program in Teacher Education.

EDCI 307A  Units: 1.5  Hours: 3-1
Formerly: part of 307
Art in the Elementary or Middle Classroom I
The purpose of this methods course is to understand 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. Aims to develop 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, EDUC 307, AE 103, AE 103A, AE 103B, AE 204.
Prerequisite(s): Admission to a program in Teacher Education.

EDCI 307B  Units: 1.5  Hours: 3-1
Formerly: part of 307
Art in the Elementary Classroom II
A further investigation of concepts and methods of instruction that are appropriate for elementary students in classroom settings. Involves continued work in developing student competence and confidence in studio art and building general knowledge, both cultural/historical and contemporary art and art practice.
Note: Credit will be granted for only one of EDCI 307B, EDCI 307, EDUC 307, AE 103, AE 103A, AE 103B, AE 204.
Prerequisite(s):
• EDCI 307A, and
• admission to a program in Teacher Education.

EDCI 308  Units: 1.5  Hours: 1.5-1.5
Formerly: ME 308
Studio Piano Class II
Continuation of development of piano keyboard skills: technique, harmonic analysis, sight reading, transposition, arrangements, composition and improvisation.
Notes:
• Credit will be granted for only one of EDCI 308, ME 308.
• Students who have some piano background may request permission to register in the course.
Prerequisite(s):
• EDCI 208 or ME 208, or
• permission of the department.

EDCI 310  Units: 1.5  Hours: 3-0
Formerly: ME 207, ME 310
Learning to Listen to Music
What to listen for and how to listen to music of diverse styles and genres.
Notes:
• Credit will be granted for only one of EDCI 310, ME 207 (if taken prior to December 2007), ME 310.
• This course is not considered as a non-music elective for students in the School of Music.

EDCI 311  Units: 1.5  Hours: 1.5-1.5
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
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
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 330.
Prerequisite(s): ED-P 251.
Grading: INP, COM, N, F

EDCI 335 - Units: 1.5 - Hours: 3-0
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
Formerly: ED-B 359
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: INP, COM, N, F

EDCI 337 - Units: 1.5 - Hours: 3-0
Formerly: ED-B 360
Interactive & Multimedia Learning
An introduction to the theory and application of multimedia learning in interactive learning environments. Students will explore the latest research and discover some best practices for creating rich educational experiences. Students will have the opportunity to design and develop interactive learning experiences using such technologies as touch input devices, tablets, interactive white boards, virtual worlds and augmented reality.
Note: Credit will be granted for only one of EDCI 337, ED-B 360.

EDCI 338 - Units: 1.5 - Hours: 3-0
Formerly: ED-B 362
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
Formerly: ED-B 363
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 363.

EDCI 340 - Units: 1.5 - Hours: 3-0
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
Formerly: 347A, ED-B 341A
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
Formerly: ED-B 344
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
Formerly: 355A ED-B 371, half of EDCI 353
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
Formerly: 353B, ED-B 371, half of EDCI 353
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
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
Formerly: EDUC 402
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
Formerly: EDUC 403
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.
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<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
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<tr>
<td>EDCI 404</td>
<td>1.5</td>
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<td>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 an 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, EDCI 404. Prerequisite(s): Admission to a program in Teacher Education.</td>
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<td>EDCI 405</td>
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<td>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, EDCI 405. Prerequisite(s): Admission to a program in Teacher Education.</td>
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<tr>
<td>EDCI 409</td>
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<td>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, EDCI 409. Prerequisite(s): EDCI 405 or EDCI 405.</td>
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<tr>
<td>EDCI 410</td>
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<td>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.</td>
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<tr>
<td>EDCI 422</td>
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<td>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.</td>
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<tr>
<td>EDCI 424</td>
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<td>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, EDCI 422, EDCI 422A. Prerequisite(s): ED-D 420.</td>
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<tr>
<td>EDCI 428</td>
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<td>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 424B, EDCI 422, EDCI 422B. Prerequisite(s): ED-D 420.</td>
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<tr>
<td>EDCI 431</td>
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<td>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 420.</td>
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<td>EDCI 432</td>
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<td>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 423.</td>
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<td>EDCI 433</td>
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<td>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 425.</td>
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<td>EDCI 434</td>
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<td>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.</td>
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<td>EDCI 442</td>
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<td>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): Admission to Professional Year of a teacher education program (must include 1.5 units of reading instruction course); or permission of the faculty.</td>
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<tr>
<td>EDCI 447</td>
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<td>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 440, ED-B 491. Prerequisite(s): Admission to an Education program or admission to a Diploma or major program in Applied Linguistics.</td>
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| EDCI 448    | 1.5   | 3-0   | 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 a Diploma or Major program in Applied Linguistics; or permission of the faculty.
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<td>EDUC 431</td>
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<td>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.</td>
<td>Credit will be granted for only one of EDUC 431, EDUC 432.</td>
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<td>Formerly: ED-E 473</td>
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<tr>
<td>EDUC 473</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: ED-E 473</td>
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<tr>
<td>EDUC 474</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: ED-E 473</td>
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<td>EDUC 475</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: ED-E 473</td>
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<td>EDUC 476</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: ED-E 473</td>
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<td>EDUC 477</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: ED-E 473</td>
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<td>EDUC 478</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: ED-E 473</td>
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<td>EDUC 479</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: ED-E 473</td>
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<tr>
<td>EDUC 480</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: ED-E 473</td>
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<tr>
<td>Course Code</td>
<td>Units</td>
<td>Notes</td>
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<tr>
<td>EDCI 487</td>
<td>1.5 or 3.0</td>
<td>Hours: 3-0</td>
<td>Permission will not normally be given for more than 3 units of directed studies.</td>
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<tr>
<td>EDCI 490</td>
<td>1.5</td>
<td>Formerly: EDCI 494X, ED-A 490, ED-B 490, ED-E 490</td>
<td>Transformative Inquiry&lt;br&gt;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</td>
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<tr>
<td>EDCI 494</td>
<td>1.5 each</td>
<td>Formerly: ED-A, ED-B, ED-E 494; ED-A, ED-B, ED-E 495</td>
<td>Directed Studies&lt;br&gt;Research project, directed reading, or additional coursework in a specific area. Notes: Credit will be granted for only one of EDCI 494, ED-A 494, ED-A 495, ED-B 494, ED-B 495, ED-E 494, ED-E 495. Permission will not normally be given for more than 3 units of directed studies.</td>
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<tr>
<td>EDCI 495A</td>
<td>1.5</td>
<td>Formerly: ED-A, ED-B, ED-E 494; ED-A, ED-B, ED-E 495</td>
<td>Art Education</td>
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<tr>
<td>EDCI 495D</td>
<td>1.5</td>
<td>Formerly: ED-A, ED-B, ED-E 494; ED-A, ED-B, ED-E 495</td>
<td>Drama Education</td>
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<tr>
<td>EDCI 495G</td>
<td>1.5</td>
<td>Formerly: ED-A, ED-B, ED-E 494; ED-A, ED-B, ED-E 495</td>
<td>Educational Technology</td>
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<tr>
<td>EDCI 495K</td>
<td>1.5</td>
<td>Formerly: ED-A, ED-B, ED-E 494; ED-A, ED-B, ED-E 495</td>
<td>Language and Literacy</td>
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<tr>
<td>EDCI 495M</td>
<td>1.5</td>
<td>Formerly: ED-A, ED-B, ED-E 494; ED-A, ED-B, ED-E 495</td>
<td>Music Education</td>
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<tr>
<td>EDCI 495N</td>
<td>1.5</td>
<td>Formerly: ED-A, ED-B, ED-E 494; ED-A, ED-B, ED-E 495</td>
<td>Teaching of History</td>
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<tr>
<td>EDCI 495P</td>
<td>1.5</td>
<td>Formerly: ED-A, ED-B, ED-E 494; ED-A, ED-B, ED-E 495</td>
<td>Teaching of Geography</td>
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<tr>
<td>EDCI 495R</td>
<td>1.5</td>
<td>Formerly: ED-A, ED-B, ED-E 494; ED-A, ED-B, ED-E 495</td>
<td>Social Studies</td>
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<tr>
<td>EDCI 495X</td>
<td>1.5</td>
<td>Formerly: ED-A, ED-B, ED-E 494; ED-A, ED-B, ED-E 495</td>
<td>Science Education</td>
<td></td>
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<tr>
<td>EDCI 496</td>
<td>1.5</td>
<td>Hours: 3-0</td>
<td>Professional Communication for Personal Success&lt;br&gt;Focuses on the effective design and delivery of print, multimodal, and oral communications for successful engagement of professional and student audiences. Examines the relevancy and persuasiveness of diverse print and digital-based communication formats in varied contemporary educational contexts through theory and practice.</td>
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<tr>
<td>EDCI 499</td>
<td>0.5-3.0</td>
<td>Formerly: EDCI 487, ED-B 487, ED-E 487</td>
<td>Professional Development - Curriculum and Instruction&lt;br&gt;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</td>
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</table>
EDCI 706  
Units: 1.5  Hours: 3-0  
Formerly: EDCI 780 - EDCI 780
Curriculum and Instruction in Secondary School Art
As the final 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.

EDCI 716  
Units: 1.5  Hours: 3-0  
Formerly: EDCI 767
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.

EDCI 746  
Units: 1.5  Hours: 3-0  
Formerly: EDCI 764
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.

EDCI 747  
Units: 1.5  Hours: 3-0  
Formerly: EDCI 757
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.

EDCI 749  
Units: 1.5  Hours: 3-0  
Formerly: ED-B 756
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.

EDCI 757  
Units: 1.5  Hours: 3-0  
Formerly: EDCI 773
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.

EDCI 761  
Units: 1.5  Hours: 3-0  
Formerly: EDCI 762
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.

EDCI 767  
Units: 1.5  Hours: 3-0  
Formerly: EDCI 774
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  
Units: 1.5  Hours: 3-0  
Formerly: EDCI 784
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  
Formerly: ED-P 780
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 797 - ELEC 310

429
ELEC 320 - ELEC 410

ELEC 320 Units: 1.5 Hours: 3-1.5
Electronic Devices I
Prerequisite(s): ELEC 220.

ELEC 330 Units: 1.5 Hours: 3-1.5-0.5
Electronic Circuits I
Prerequisite(s): ELEC 250.

ELEC 335 Units: 1.5 Hours: 3-1.5
Also: BME 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 ELEC 335, BME 335.
Prerequisite(s): ELEC 216 or PHYS 216.
Pre- or Corequisite(s): ELEC 330 or ELEC 365.

ELEC 340 Units: 1.5 Hours: 3-1.5-0.5
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.
Prerequisite(s):
• ELEC 216 or PHYS 216; and
• MATH 201.
Pre- or Corequisite(s): MATH 201 or MATH 204.

ELEC 350 Units: 1.5 Hours: 3-1.5
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.
Prerequisite(s): ELEC 310 and ELEC 330.

ELEC 360 Units: 1.5 Hours: 3-1.5
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.
Prerequisite(s): ELEC 260.

ELEC 365 Units: 1.5 Hours: 3-1.5-1
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.
Prerequisite(s):
• ELEC 216 or PHYS 216; and
• ELEC 250.

ELEC 370 Units: 1.5 Hours: 3-1.5
Electromechanical Energy Conversion
Prerequisite(s): ELEC 250.

ELEC 370 Units: 1.5 Hours: 3-1.5-0.5
Electronic Circuits II
Prerequisite(s): ELEC 300 and ELEC 330.

ELEC 380 Units: 1.5 Hours: 3-0
Digital Signal Processing I
Note: Credit will be granted for only one of ELEC 407, ELEC 458.
Prerequisite(s): ELEC 310.

ELEC 403 Units: 1.5 Hours: 3-1.5
Engineering Design by Optimization
The steepest descent and Newton methods for unconstrained optimization. Golden section, quadratic, cubic and inexact line searches. Conjugate and quasi-Newton methods. The Fletcher-Reeves algorithm. Application to the design of circuits, control systems, filters, and mechanical systems using optimization techniques. Introduction to constrained optimization. Includes laboratory sessions to program various optimization algorithms and to apply them to several modelling and engineering design problems.
Prerequisite(s): ELEC 310 or CSC 349A.

ELEC 404 Units: 1.5 Hours: 3-1.5
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.
Prerequisite(s): ELEC 300 and ELEC 340.

ELEC 405 Units: 1.5 Hours: 3-0
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.
Prerequisite(s):
• Minimum fourth-year standing in the Faculty of Engineering; or
• permission of the department.

ELEC 407 Units: 1.5 Hours: 3-0
Digital Signal Processing II
Note: Credit will be granted for only one of ELEC 407, ELEC 458.
Prerequisite(s): ELEC 310.

ELEC 410 Units: 1.5 Hours: 3-1.5
Power Electronics
Electronics in energy conversion and control. Circuits with switches and diodes. Electrical and thermal characteristics of power semiconductor devices: diodes and thyristors; bipolar, field effect and insulated gate transistors. Phase controlled converters: ac-to-ac and ac-to-dc: Dc-to-dc converters including switching regulators. Voltage source inverters. Pulse-width modulation and harmonic elimination techniques. Emphasis on device limitations, computer aided analysis and system control. Application examples including solar power conversion and battery chargers.
Prerequisite(s): ELEC 370 and ELEC 380.
ELEC 412 Units: 1.5 Hours: 3-0
Electronic Devices II
Prerequisite(s): ELEC 320.

ELEC 417 Units: 1.5 Hours: 3-1.5
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.
Prerequisite(s): ELEC 350.

ELEC 420 Units: 1.5 Hours: 3-0
Nanotechnology
Prerequisite(s): ELEC 320.

ELEC 426 Units: 1.5 Hours: 3-1.5
Robotics
Note: Credit will be granted for only one of ELEC 426, ELEC 425, ELEC 475, MECH 430.
Prerequisite(s):
• ELEC 360; and
• ELEC 360, ELEC 370, ELEC 300.

ELEC 434 Units: 1.5 Hours: 3-0
Biophotonics
An overview of basic optics (including the principles of lasers), biology and photobiology will be given. Practical applications will be presented including biomedical, bioimaging and microarray technologies, flow cytometry, photodynamic therapy, tissue engineering (including laser surgery), and laser scalars and tweezers.
Note: Credit will be granted for only one of ELEC 434, BME 434.
Prerequisite(s): ELEC 340.

ELEC 435 Units: 1.5 Hours: 3-0
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 ELEC 435, BME 403.
Prerequisite(s): ELEC 310.

ELEC 450 Units: 1.5 Hours: 3-1.5
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 modern and of CODECs, introduction to noise analysis, information theory and coding.
Prerequisite(s): ELEC 350.

ELEC 451 Units: 1.5 Hours: 3-0
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 modulators, 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.
Prerequisite(s): ELEC 320 and ELEC 340.

ELEC 452 Units: 1.5 Hours: 3-0
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.
Prerequisite(s): ELEC 340.

ELEC 453 Units: 1.5 Hours: 3-0
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.
Prerequisite(s): ELEC 404.

ELEC 454 Units: 1.5 Hours: 3-1.5
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 WiFi and beyond 3G cellular systems.
Prerequisite(s): ELEC 350.

ELEC 455 Units: 1.5 Hours: 3-1.5
Applications of Digital Signal Processing Techniques
Prerequisite(s): ELEC 310.

ELEC 460 Units: 1.5 Hours: 3-0
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.
Prerequisite(s): ELEC 360 or MECH 435.

ELEC 461 Units: 1.5 Hours: 3-0
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.
Prerequisite(s): ELEC 330 and ELEC 360.

ELEC 462 Units: 1.5 Hours: 3-0
Motor Drive Dynamics
Prerequisite(s): All of ELEC 330, ELEC 360, ELEC 370.

ELEC 466 Units: 1.5 Hours: 3-1.5
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.
Prerequisite(s):
• One of CENG 355, CSC 355, MECH 405, MECH 438; and
• either ELEC 310, or MECH 435 and MECH 455.

ELEC 470 Units: 1.5 Hours: 3-0
Image Processing and Understanding
Image processing techniques for digital cameras and video. Image analysis 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 ELEC 435, BME 403.
Prerequisite(s): ELEC 310.

ELEC 475 Units: 1.5 Hours: 3-0
Biomedical Signals and Systems
Introduction to biomedical signals and systems. Applications of digital signal processing and biomedical signal analysis. Topics include bioelectrical signals, medical imaging, and medical signal processing.
Prerequisite(s): ELEC 310.
### ELEC 481 - Analog VLSI Systems

**Units:** 1.5  
**Hours:** 3-0  

**Prerequisite(s):** ELEC 320 and ELEC 380.  

**Course Description:** 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.

### ELEC 482 - Electrical Drive Systems

**Units:** 1.5  
**Hours:** 3-0  

**Prerequisite(s):** ELEC 365 or ELEC 370.  

**Course Description:** 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.

### ELEC 483 - Digital Video Processing

**Units:** 1.5  
**Hours:** 3-0  

**Prerequisite(s):** ELEC 310.  


### ELEC 484 - Audio Signal Processing

**Units:** 1.5  
**Hours:** 3-0  

**Prerequisite(s):** ELEC 310.  

**Course Description:** 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.

### ELEC 485 - Data Analysis and Pattern Recognition

**Units:** 1.5  
**Hours:** 3-0  

**Formerly:** CENG 485  

**Course Description:** 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 ELEC 485, CENG 485.  

**Prerequisite(s):** STAT 254 or STAT 260.

### ELEC 486 - Multiresolution Signal and Geometry Processing With C++

**Units:** 1.5  
**Hours:** 3-0-1.5  

**Prerequisite(s):** CENG 485.  

**Course Description:** Multirate signal processing, up-sampling, down-sampling, 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.

### ELEC 488 - Electrical Power Systems

**Units:** 1.5  
**Hours:** 3-0  

**Course Description:** 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.

### ELEC 490 - Directed Studies

**Units:** 1.5 or 3.0  

**Notes:**  
- May be taken more than once for credit in different topics.  
- Credit will be granted for only one of ELEC 496A, ELEC 496B (if taken in the same topic), ELEC 496C (if taken in the same topic), ELEC 496D (if taken in the same topic).

**Prerequisite(s):** Set by department depending upon topic.

### ELEC 496A - Selected Topics in Electrical Engineering

**Units:** 1.5  
**Hours:** 3-0*  

**Formerly:** ELEC 496  

**Course Description:** 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.  

**Notes:**  
- May be taken more than once for credit in different topics with permission of the department.

**Prerequisite(s):** Set by department depending upon topic.

### ELEC 496B - Selected Topics in Electrical Engineering

**Units:** 1.5  
**Hours:** 3-0*  

**Formerly:** ELEC 496  

**Course Description:** 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.  

**Notes:**  
- May be taken more than once for credit in different topics with permission of the department.

**Prerequisite(s):** Set by department depending upon topic.

### ELEC 496C - Selected Topics in Electrical Engineering

**Units:** 1.5  
**Hours:** 3-0*  

**Formerly:** ELEC 496  

**Course Description:** 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.  

**Notes:**  
- May be taken more than once for credit in different topics with permission of the department.

**Prerequisite(s):** Set by department depending upon topic.

### ELEC 496D - Selected Topics in Electrical Engineering

**Units:** 1.5  
**Hours:** 3-0*  

**Formerly:** ELEC 496  

**Course Description:** 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.  

**Notes:**  
- May be taken more than once for credit in different topics with permission of the department.

**Prerequisite(s):** Set by department depending upon topic.
Developing English Writing Skills

Grading:

Note: This course may only be taken once replacing two technical electives, one of which can be ELEC 499.

Prerequisite(s):
- All of Year 3 courses in Electrical Engineering, and
- minimum cumulative GPA of 5.5, and
- permission of the department.

Grading: INP, standard grade.

ELEC 499

Units: 1.5 Hours: 1-9

Formerly: ELEC 499A and 499B

Design Project II

A significant technical design project in Electrical Engineering completed under the supervision of a faculty member. This design experience is based on the knowledge and skills acquired in earlier coursework. Projects may originate from faculty members, students, or external sources. They may have a diverse nature and serve diverse needs. Multi-disciplinary projects are encouraged.

Note: Credit will be granted for only one of ELEC 499, ELEC 499A, ELEC 499B, CENG 499, CENG 499A, CENG 499B, SENG 499, SENG 499A, SENG 499B

Prerequisite(s):
- One of ELEC 399, BME 350, CENG 399, and
- ENGR 002, and
- minimum fourth-year standing in the Electrical Engineering program.

ENGL 101

Units: 1.5 Hours: 3-0

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.

Note: Restricted to students who have not satisfied the Academic Writing Requirement.

Not open for credit to students registered in or with credit in any of ENGL 135, ENGL 146, ENGL 147, ENGR 110. 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

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

The Literature of Our Era

Comparative study of literary works from the 20th and 21st centuries. Special attention to how writers have adapted styles and techniques to represent our own experiences and the challenges of our age. Lectures, discussions, and essay writing workshops combine to develop students' abilities to write and speak about literature, and to make 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

Great Moments in English Literature

Study of influential literary works in English from the medieval period to the present day. Special attention to the cultural and historical contexts of these great books and the varied strategies writers have used to tell stories over the centuries. Assignments will develop skills for writing about literature and for making 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 200A

Units: 1.5 Hours: 3-0

English Literature to 1660

Surveys major works from the Middle Ages and Renaissance. May include Old and Middle English texts in translation: Beowulf or Sir Gawain and the Green Knight, alongside works by major authors including Chaucer, Shakespeare, Marlowe, Sidney, Spenser, Donne and Milton.

Note: Credit will be granted for only one of ENGL 200A, ENGL 150, ENGL 200.

ENGL 200B

Units: 1.5 Hours: 3-0

Formerly part of 200

English Literature, 1660-1800

Surveys major works from the end of the English Civil War period through the 18th century. Covers important genres (epic, satre, drama, novel, lyric) and aesthetic tendencies both neo-classical and modern. Authors may include Milton, Behn, Defoe, Swift, Pope, Goldsmith, Johnson, Fielding, Richardson, Burney, Walpole, Blake, Wordsworth and Coleridge.

Note: Credit will be granted for only one of ENGL 200B, ENGL 151, ENGL 200, ENGL 200C (if taken prior to September 2009).

ENGL 200C

Units: 1.5 Hours: 3-0

Formerly part of 200, 200

English Literature, 1800-1914

Surveys major works from the Romantic, Victorian and Edwardian periods. Covers important genres (lyrical ballad, ode, dramatic monologue, essay, novel, drama) and aesthetic tendencies such as romanticism, realism and aestheticism. Authors may include Wordsworth, Coleridge, the Shelleys, Keats, Austen, Tennyson, the Brownings, the Brontes, Dickens, Hardy, Wilde, Forster and Conrad.

Note: Credit will be granted for only one of ENGL 200C, ENGL 151, ENGL 200, ENGL 200B (if taken in Sep 2010 - Apr 2013).

ENGL 201

Units: 1.5 Hours: 3-0

Introduction to Modernist Literature

Surveys major works of fiction, poetry and drama from the modernist period (roughly 1900-45), with emphasis on the dynamic relation between revolutions in aesthetic form and social, psychological and intellectual developments that marked the early 20th century. Authors may include Yeats, Conrad, Forster, Joyce, Woolf, Pound, Eliot, Stein, Moore, Stevens, Faulkner and Beckett, as well as some literature in translation.

ENGL 202

Units: 1.5 Hours: 3-0

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 - ENGL 303

ENGL 203  Units: 1.5  Hours: 3-0
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
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
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
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 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
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
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.
Note: Credit will be granted for only one of ENGL 225, ENGR 120, ENGR 240.
Prerequisite(s): Academic Writing Requirement satisfied.

ENGL 230  Units: 1.5  Hours: 3-0
Formerly: 250
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.
Notes:
• Credit will be granted for only one of ENGL 230, ENGL 250 (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.
• May not be counted toward second-year requirements in Honours, Major, General or Minor Literature Programs in English.

ENGL 260  Units: 1.5  Hours: 3-0
Formerly: part of 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.
Note: Credit will be granted for only one of ENGL 260, ENGL 365 (if taken prior to December 1983), ENGL 409.

ENGL 301  Units: 1.5  Hours: 3-0
Report Writing for Business
Essential skills of modern technical and business writing, particularly usability, style and structure. Technology as part of the research, writing, revision and presentation processes. Proposals, reports, descriptions, writing for general audiences.
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 with a minimum grade of B, ENGL 135 with a minimum grade of B, ENGL 145 with a minimum grade of B, ENGL 146 with a minimum grade of B, ENGL 147 with a minimum grade of B, ENGL 181 with a minimum grade of B, ENGL 215 with a minimum grade of B, ENGL 225 with a minimum grade of B, ENGL 240 with a minimum grade of B, ECON 225 with a minimum grade of B, WRIT 204 with a minimum grade of B, WRIT 215 with a minimum grade of B; or
• permission of the department.

ENGL 302  Units: 1.5  Hours: 3-0
Writing for Government and the Public Sector
Introduction to the essential skills of writing effectively for government and public sector organizations. Develops skills in focusing on a purpose, writing for different audiences, structuring information effectively and writing clear, concise and correct English. Taught in a computer lab and features extensive practice in writing briefing notes, memos, correspondence and reports.
Notes:
• Credit will be granted for only one of ENGL 302, ADMN 316.
• May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English.
Prerequisite(s):
• Two of ENGL 125 with a minimum grade of B, ENGL 135 with a minimum grade of B, ENGL 145 with a minimum grade of B, ENGL 146 with a minimum grade of B, ENGL 147 with a minimum grade of B, ENGL 181 with a minimum grade of B, ENGL 215 with a minimum grade of B, ECON 225 with a minimum grade of B, WRIT 204 with a minimum grade of B, WRIT 215 with a minimum grade of B; or
• permission of the department.
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<th>Hours</th>
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<td>ENGL 305</td>
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<td>Visual Rhetoric for Professional Writers</td>
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<td>ENGL 306</td>
<td>1.5</td>
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<td>Technical Communication</td>
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<td>ENGL 307</td>
<td>1.5</td>
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<td>Introduction to Visual Rhetoric</td>
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<td>Practical Criticism</td>
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<td>Literature and Culture II</td>
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<td>Medieval British Literature in Translation</td>
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<td>Chaucer: Canterbury Tales</td>
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<td>Chaucer: Troilus and Minor Works</td>
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<td>Alliterative Traditions</td>
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<td>Medieval and Renaissance Scottish Literature</td>
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<td>Studies in Medieval English Literature</td>
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<td>ENGL 359</td>
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<td>16th-Century Poetry and Prose</td>
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<td>ENGL 360</td>
<td>1.5</td>
<td>3-0</td>
<td>Special Studies in Shakespeare</td>
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</tbody>
</table>
ENGL 362 - ENGL 388

ENGL 362 Units: 1.5 Hours: 3-0
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
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
17th Century Poetry and Prose to 1660
Major non-dramatic writers of the period, excluding Milton. Among those to be studied in any given year are John Donne and the other Metaphysical poets (Herbert, Crashaw, Vaughan, Marvell, Traherne), Ben Jonson and the Cavalier poets (Herrick, Lovelace, Suckling, Carew); and prose writers such as Bacon, Burton, Browne, Traherne and Hobbes.
Note: Credit will be granted for only one of ENGL 365, ENGL 361.

ENGL 366B Units: 1.5 Hours: 3-0
Formerly: part of 366 and 366A
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
Formerly: part of 366 and 366A
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
Milton: Major Poetry and Selected Prose
A study of Paradise Lost, Samson Agonistes, and other poems and prose.

ENGL 370 Units: 1.5 Hours: 3-0
Victorian Fiction: Dickens to Eliot
A study of major achievements in British fiction during the high Victorian period; focus is on works by Charles Dickens and George Eliot; other authors might include the Brontes, 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 370, ENGL 380, ENGL 384.

ENGL 374 Units: 1.5 Hours: 3-0
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
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
Formerly: part of 376 and 423
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
Formerly: part of 376 and 423
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 379 Units: 1.5 Hours: 3-0
Formerly: part of 384
British Fiction and Non-Fiction of the Early 19th Century
Pros 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 Brontes; Gothic novels, historical novels and novels of manners.
Note: Credit will be granted for only one of ENGL 379, ENGL 380, ENGL 384.

ENGL 380 Units: 1.5 Hours: 3-0
Formerly: part of 384
Victorian Fiction: Dickens to Eliot
A study of major achievements in British fiction during the high Victorian period; focus is on works by Charles Dickens and George Eliot; other authors might include the Brontes, 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 370, ENGL 380, ENGL 384.

ENGL 381 Units: 1.5 Hours: 3-0
Formerly: part of 384
Late Victorian and Edwardian Fiction
A study of the changes in fiction as the Victorian period gives way to the modern age; focus is 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
Formerly: half of 430
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
Formerly: half of 430
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
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
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
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
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 391 - Units: 1.5 - Hours: 3-0
**Special Studies in Literary Genre**
A variable content course which focuses on a specific Literary Genre irrespective of geographic and political boundaries.

**Notes:**
- May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English from September 2014.

### ENGL 392 - Units: 1.5 - Hours: 3-0
**Studies in a Major Figure**
A study of the works of a single literary figure.

**Notes:**
- May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English from September 2014.

### ENGL 393 - Units: 1.5 - Hours: 3-0
**Myth and Literature**
A variable content course which studies texts that develop ideas of myth.

**Notes:**
- May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English from September 2014.

### ENGL 394 - Units: 1.5 - Hours: 3-0
**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 not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English from September 2014.

### ENGL 395 - Units: 1.5 - Hours: 3-0
**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:**
- Credit will be granted for only one of ENGL 407, ENGL 406 (if taken in the same topic).

### ENGL 396 - Units: 1.5 - Hours: 3-0
**Special Studies in Professional Communication**
May be taken more than once for credit in different topics to a maximum of 3 units.

**Notes:**
- Credit will be granted for only one of ENGL 407, ENGL 406 (if taken in the same topic).

### ENGL 397 - Units: 1.5 - Hours: 3-0
**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).

### ENGL 398 - Units: 1.5 - Hours: 3-0
**Research for Professional Writers**
An introduction to 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.

**Notes:**
- May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English.

### ENGL 400 - Units: 1.5 - Hours: 3-0
**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 401 - Units: 1.5 - Hours: 3-0
**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 to 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 417B, ENGL 417C.

### ENGL 402 - Units: 1.5 - Hours: 3-0
**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, EDCL 347A.
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<th>Units</th>
<th>Hours</th>
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<td>3.0</td>
<td>Print Media Genres and Techniques for Professional Communication</td>
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<tr>
<td>ENGL 419A</td>
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<td>Narrative Film to 1945</td>
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<td>3.0</td>
<td>Special Studies in the Literature of the United States</td>
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<td>ENGL 426</td>
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<td>3.0</td>
<td>Studies in North American Literature</td>
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<td>ENGL 427</td>
<td>1.5</td>
<td>3.0</td>
<td>19th-Century American Prose and Poetry</td>
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**ENGL 428A**

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<th>Units</th>
<th>Hours</th>
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<tbody>
<tr>
<td>1.5</td>
<td>3.0</td>
<td>19th-Century American Fiction I</td>
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<td></td>
<td>A study of American fiction up to the Civil War. Authors to be covered may include Irving, Cooper, Poe, Hawthorne, Melville, Stowe.</td>
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<td>Note: Credit will be granted for only one of ENGL 428A, ENGL 428B.</td>
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**ENGL 428B**

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<th>Units</th>
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<tbody>
<tr>
<td>1.5</td>
<td>3.0</td>
<td>19th-Century American Fiction II</td>
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<td>American fiction from the Civil War to 1900; authors may include Alcott, Howells, Twain, James, Crane, Gilman, Jewett, Chopin, Chesnutt.</td>
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<td>Note: Credit will be granted for only one of ENGL 428A, ENGL 428B.</td>
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**ENGL 429A**

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<th>Units</th>
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<tbody>
<tr>
<td>1.5</td>
<td>3.0</td>
<td>20th-Century American Fiction to World War II</td>
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<td>The American novel and short story in the first 40 years of the 20th century; authors may include James, Stein, Dreiser, Wharton, Cather, Hemingway, Fitzgerald, Larsen, Dos Passos, Faulkner, Steinbeck, West, Hurston, Wright.</td>
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<td>Note: Credit will be granted for only one of ENGL 429A, ENGL 429B.</td>
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**ENGL 429B**

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<th>Units</th>
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<tr>
<td>1.5</td>
<td>3.0</td>
<td>20th-Century American Fiction to World War II</td>
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<td>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.</td>
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<td>Note: Credit will be granted for only one of ENGL 429A, ENGL 429B.</td>
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**ENGL 429C**

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<th>Units</th>
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<th>Formerly part of 429</th>
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<tbody>
<tr>
<td>1.5</td>
<td>3.0</td>
<td>Contemporary American Fiction</td>
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<td></td>
<td>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, Marilynne Robinson, Raymond Carver, Don DeLillo, Cormac McCarthy, Barbara Kingsolver, William Gibson, Art Spiegelman, Louise Erdrich, Sandra Cisneros, Richard Powers, Sherman Alexie.</td>
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<td>Note: Credit will be granted for only one of ENGL 429C, ENGL 429B.</td>
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**ENGL 431A**

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<th>Units</th>
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<tbody>
<tr>
<td>1.5</td>
<td>3.0</td>
<td>Modern American Poetry I</td>
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<td></td>
<td>Focuses on the first generation of American modernist poets whose major work 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.</td>
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<td>Note: Credit will be granted for only one of ENGL 431A, ENGL 431B.</td>
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**ENGL 431B**

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<th>Units</th>
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<tr>
<td>1.5</td>
<td>3.0</td>
<td>Modern American Poetry II</td>
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<td>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.</td>
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<td>Note: Credit will be granted for only one of ENGL 431B, ENGL 431C.</td>
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**ENGL 432A**

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<th>Units</th>
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<tbody>
<tr>
<td>1.5</td>
<td>3.0</td>
<td>American Poetry: 1950-1975</td>
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<td></td>
<td>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.</td>
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<td>Note: Credit will be granted for only one of ENGL 432A, ENGL 432B.</td>
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**ENGL 432B**

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<tbody>
<tr>
<td>1.5</td>
<td>3.0</td>
<td>American Poetry: from 1975 to the Present Day</td>
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<td></td>
<td>Detailed study of American poetry from 1975 to the present. The main poets studied may include: Jonie Graham, Audre Lorde, Rita Dove, Ai, Lyn Hejinian, Susan Howe, Michael Palmer, Charles Bernstein, Kathleen Fraser, Bob Perelman.</td>
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<td>Note: Credit will be granted for only one of ENGL 432B, ENGL 432C.</td>
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**ENGL 433A**

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<tr>
<td>1.5</td>
<td>3.0</td>
<td>Modern Irish Literature</td>
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<td>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.</td>
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<td>Note: Credit will be granted for only one of ENGL 433A, ENGL 433B.</td>
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**ENGL 433B**

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<tr>
<td>1.5</td>
<td>3.0</td>
<td>Contemporary Irish Literature</td>
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<td>Irish literature after World War II. Includes the effect of modernism, especially the legacy of Yeats and Joyce, the relevance of the term &quot;postmodernism&quot;, the renewal of formalism, Gaelic poetry in translation, form and nationality and/or gender. Comparative treatment of Irish literature in dialogue with English, American and continental European literature. Authors may include Beckett, MacNeice, Kavanagh, Hewitt, Montague, Brian Moore, Doyle, Johnston, O'Brien, Friel, Heaney, Mahon, Longley, Boland and McHughan.</td>
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<td>Note: Credit will be granted for only one of ENGL 433B, ENGL 433C.</td>
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</table>
ENGL 434A  Units: 1.5  Hours: 3-0
Formerly: part of 434
British Poetry 1914-1950
Surveys British and Irish poets from the first half of the 20th century. Focuses on the short- and long-term impact of High Modernism both nationally and internationally as well as the persistence of more traditional and more democratic poetic voices and agendas. Poets may include Hardy, Yeats, Eliot, Owen, Lawrence, Sitwell, Auden, Thomas and MacNeice.
Note: Credit will be granted for only one of ENGL 434A, ENGL 434.

ENGL 434B  Units: 1.5  Hours: 3-0
Formerly: part of 434
British Poetry from 1950 to the Present
Surveys late 20th-century British and Irish poets. Focuses on the proliferation of coteries and schools in the wake of the modernist revolution of the earlier period and the legacies of its major poets. Poets may include Larkin, Hughes, Raine, Harrison, Hill, Tomlinson, Jennings, Heaney, Mahon and Boland.
Note: Credit will be granted for only one of ENGL 434B, ENGL 434.

ENGL 435  Units: 1.5  Hours: 3-0
Formerly: 465
Modernity Poetry
A course on three major international Modernist English-language poets. Poets to be studied may include: Ezra Pound, H.D., T.S. Eliot, William Carlos Williams, Marianne Moore, Gertrude Stein, W.B. Yeats, Mina Loy.
Note: Credit will be granted for only one of ENGL 435, ENGL 465.

ENGL 436A  Units: 1.5  Hours: 3-0
Formerly: part of 436
20th-Century British Fiction to World War II
Fiction of the British Isles in the first half of the 20th century. Emphasis is both critical and historical. Students are urged to form their own judgments with little reference to the works of critics. Authors may include Joseph Conrad, E.M. Forster, James Joyce, Virginia Woolf, D.H. Lawrence, Evelyn Waugh, Samuel Beckett, and Graham Greene.
Note: Credit will be granted for only one of ENGL 436A, ENGL 436.

ENGL 436B  Units: 1.5  Hours: 3-0
Formerly: part of 436
20th-Century British Fiction After World War II
Fiction of the British Isles in the second half of the 20th Century. Emphasis is both critical and historical. Students are urged to form their own judgments with little reference to the works of critics. Authors may include Evelyn Waugh, Kingsley Amis, Raymond Williams, Anthony Burgess, Graham Greene, John Fowles, Margaret Drabble, Iris Murdoch, William Golding, Ian McEwan, Fay Weldon, Martin Amis, Pat Barker.
Note: Credit will be granted for only one of ENGL 436B, ENGL 436.

ENGL 437A  Units: 1.5  Hours: 3-0
Formerly: part of 437
Modern Drama to World War II
The play as a literary form; examination of styles, techniques, themes and moods in drama from the 19th century through to the Second World War; theories and techniques of acting, theatre design, and audience requirements. Emphasis on British and American theatre, with consideration of influential European playwrights and movements.
Note: Credit will be granted for only one of ENGL 437A, ENGL 437.

ENGL 437B  Units: 1.5  Hours: 3-0
Formerly: part of 437
Modern Drama Since World War II
An examination of styles, techniques, themes and moods in drama from the Second World War to the present; theories and techniques of performance, production, and reception, particularly as these affect both the writing and the reading of the play as text. Emphasis on British and American theatre, but with consideration of influential European playwrights and movements, and of post-colonial developments.
Note: Credit will be granted for only one of ENGL 437B, ENGL 437.

ENGL 438  Units: 1.5  Hours: 3-0
Special Studies in Post-Colonial Literature and Theory
A study of a major aspect of post-colonial literature and/or theory. 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 439A  Units: 1.5  Hours: 3-0
Formerly: part of 439
Colonial Discourse and Postcolonial Studies
An introduction to the major debates of colonial and postcolonial studies; notions of “colonialism” in such areas as Africa, India, Latin America, Australia, and the Caribbean; concepts such as nationhood, community, diaspora, exile, and home; recent political, ecological, gender, and subaltern movements; works by such authors as Conrad, Rushdie, Head and Said.
Note: Credit will be granted for only one of ENGL 439A, ENGL 439.

ENGL 439B  Units: 1.5  Hours: 3-0
Formerly: part of 439
Special Studies in Postcolonial Literatures
A study of major writers and/or literatures to emerge from a formerly colonized area, such as India, Africa, Australia, or the Caribbean.
Notes:
• Credit will be granted for only one of ENGL 439B, ENGL 439.
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 448  Units: 1.5  Hours: 3-0
Special Studies in Canadian Literature
A study of a major theme, problem, genre or author in Canadian Literature, 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 449  Units: 1.5  Hours: 3-0
Special Studies in Contemporary Literature
A study of significant literary works published during the past 15 years. Focuses on themes and issues engaged by authors from throughout the English-speaking world.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 450  Units: 1.5  Hours: 3-0
Modern Canadian Fiction
A study of modern realist Canadian fiction of the early and mid-20th century addressing questions of nationalism and regionalism, the representation of gender and ethnicity. May include fiction by writers such as Maclellan, Wiseman, Marlyn, Grove, Wilson, Watson and Ross.

ENGL 451  Units: 1.5  Hours: 3-0
Contemporary Canadian Fiction
A study of contemporary realist and other forms of recent Canadian fiction, including historiographic and experimental metafiction. Post-structuralist critique of representation and challenges to the canon by ethnic minority, aboriginal, and feminist writing. May include Marlatt, Bowering, Lai, Ondaatje, Brand and King.

ENGL 452  Units: 1.5  Hours: 3-0
Modern Canadian Poetry
A study of forms and historical contexts of modern Canadian poetry. The modernist reaction against Victorian poetic diction; poetry and nationalism, the importance of women and ethnic poets; the role of the poet and the professionalization of poetry; some attention to the long poem. Writers may include Birney, Scott, Livesay, Pundy and Klein.
Note: Credit will be granted for only one of ENGL 452, ENGL 397.

ENGL 453  Units: 1.5  Hours: 3-0
Contemporary Canadian Poetry
Canadian poetry since 1970, with an emphasis on recently-published works. Environmental and social activist voices, as well as writing based in post-structuralist theories of language. May include works by Schofield, Kroetsch, Moure, Carson, McKay and Zwicky.
Note: Credit will be granted for only one of ENGL 453, ENGL 397.

ENGL 455  Units: 1.5  Hours: 3-0
Canadian Literature in Transnational Times
Canadian literature read in contexts of globalization past and present; the cosmopolitan character of Canadian writing reflecting migration across diverse cultures and geographies; questioning of what counts as Canadian literature, and of national citizenship and identity. Writers may include Jann Mattel, Rohinton Mistry, Anita Badami, Jaspreet Singh and Larissa Lai.
ENGL 456  Units: 1.5  Hours: 3-0
Literature of British Columbia
A study of the ways in which British Columbia is represented in literature. Includes such authors as Ethel Wilson, Howard O'Hagan, George Bowering, Jack Hodgins, Daphne Marlatt, Martin Allerdale Grainger, Emily Carr.

ENGL 457  Units: 1.5  Hours: 3-0
Literary and Cultural Criticism in Canada
Readings in the history of Canadian criticism, covering a range of feminist, poststructuralist, postcolonial, Marxist, diasporic, queer, and ecological approaches to issues in literature and culture. Writers may include E.K. Brown, Northrop Frye, George Grant, Linda Hutcheon, Frank Davey, Thomas King, Nicole Brossard, Terry Goldie, Diana Brydon, Len Findlay, Daniel Coleman and Pamela Banting.

ENGL 458  Units: 1.5  Hours: 3-0
Also: FRAN 417
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 Canadian Literature must read the texts in the original. May include works by George Bowering, Daphne Marlatt, Lola Lemiere Tostevin, Jacques Poulin, Tomson Highway and Nicolas Dickner.
Note: Credit will be granted for only one of ENGL 458, FRAN 417, FREN 487.

ENGL 459  Units: 1.5  Hours: 3-0
Early Canadian Literature
A survey of early texts and their influences on the development of Canadian literature before the 20th century. Genres may include exploration and settler writing, short fiction, poetry, historical narratives, cultural documents, and the novel. Writers may include Richardson, Haliburton, Kirby, Moodie, Duncan and Roberts.

ENGL 460  Units: 1.5  Hours: 3-0
Classic Literary Criticism
A survey of foundational texts in literary criticism from antiquity to the early 20th century. Explores recurrent issues central to the discipline of literary studies such as literary genres and literary language, the category of the author, the evolution of the social and aesthetic functions of literature, literary-critical judgment and literary history. May include writings by Plato, Aristotle, Sidney, Johnson, Hume, Kant, Schiller, Wordsworth, Arnold, Wilde, Eliot and Woolf.
Note: Credit will be granted for only one of ENGL 460, ENGL 446.

ENGL 461  Units: 1.5  Hours: 3-0
Introduction to Contemporary Literary Theory
Literary theory studies what literature is, how it functions, and how it produces meaning. On the one hand, literary theory illuminates the norms, conventions, and rules that make literature possible. On the other hand, literary theory reflects on the function and meaning of criticism itself. Students will become familiar with such theories as New Criticism, Structuralism, Psychoanalytic theory, Hermeneutics, Deconstruction, Marxist Criticism, and Feminist Criticism, they will then be able to work with theoretical concepts, issues and terminology.
Note: Credit will be granted for only one of ENGL 461, ENGL 447, ENGL 467, ENGL 468.

ENGL 462  Units: 1.5  Hours: 3-0
Studies in Modern Critical Theory
A study of selected topics in modern literary theory and criticism. The specific topic will be 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 464  Units: 1.5  Hours: 3-0
Formerly: part of 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 ENGL 464, ENGL 365 (if taken prior to September 1983), ENGL 409.

ENGL 466  Units: 1.5  Hours: 3-0
Cultural Studies
An interdisciplinary study of issues in contemporary culture, especially the impact of popular culture on postmodern self-understanding, individual instructors may focus on various cultural manifestations, ranging from print media (novels, magazines, posters, newspapers) to visual media (film, TV, art, architecture), electronic media (Internet) to music; themes may include commodification, the construction of identity, ideological manipulation, hyperreality.

ENGL 467  Units: 1.5  Hours: 3-0
Seminar in 20th-Century Literary Criticism
Focuses on major figures and/or movements in literary criticism and theory of the last century whose work continues to be influential in contemporary criticism. Authors may include Freud, Lukacs, Adorno, Benjamin, Bakhtin, Burke, Frye and Empson; movements may include the Russian Formalists, the New Criticism, Marxism, the Frankfurt School, psychoanalysis and pragmatism.
Note: Credit will be granted for only one of ENGL 467, ENGL 461.
Prerequisite(s):
• ENGL 310, and
• declared Honours in English, or
• permission of the department.

ENGL 468  Units: 1.5  Hours: 3-0
Seminar in Late 20th-Century Literary Theory
Literary and critical theory in the later part of the 20th century. Covers poststructuralist strategies (in deconstruction, psychoanalysis, new historicism, and feminism) and the “politicization of aesthetics” (in neo-Marxist theory, postcolonialism, gender studies and cultural studies); literary texts in relation to capitalist, patriarchal, Eurocentric, and heteronormative discourses.
Note: Credit will be granted for only one of ENGL 468, ENGL 461.
Prerequisite(s):
• ENGL 467, and
• declared Honours in English, or
• permission of the department.

ENGL 469  Units: 1.5  Hours: 3-0
Women and Literature
A variable content course involving texts by and about women, and examining feminist perspectives on 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 470  Units: 1.5  Hours: 3-0
Gender Issues in Literature
A variable content course on a range of theories about the construction of sexual and gender identities (such as masculinity and femininity).
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 471  Units: 1.5  Hours: 3-0
Special Studies in Ethnic American Literature
A study of one or more 20th-century minority American literary traditions, including African American, Asian American, Latino/a, Native American, Jewish American, Arab American and others.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 472  Units: 1.5  Hours: 3-0
Indigenous and Diasporic Literatures in Canada
Comparative analysis of indigenous and diasporic writing emerging out of colonialism and migration. Writers may include Thomas King, Tomson Highway, Eden Robinson, M.G. Vassanji, Shani Mootoo and Madeline Thein.
ENGL 477  Units: 1.5  Hours: 3-0
Indigenous Literature in English
A study of writing by established and emergent Indigenous writers. Approaches may be comparative or international in perspective. Readings will consider the devices, tropes, narratives, discourses and genres that have been used to represent and give voice to indigenous perspectives. May include authors from a particular region or be more broadly global in reach. The approach to texts will be dialogic and historically-informed.

ENGL 478  Units: 1.5  Hours: 3-0
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.

Credit will be granted for only one of ENGL 469, ENGL 470, ENGL 471, ENGL 472, ENGL 475, ENGL 476, ENGL 477, ENGL 478.
ENGL 479 Units: 1.5 Hours: 3-0
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 Graeme. 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
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.
Prerequisite(s):
• Declared Honours or Major in English; or
• permission of the department.

ENGL 490 Units: 1.5 Hours: 3-0
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
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 405, ENGL 407, ENGL 408, ENGL 412; and
• permission of the department.

ENGL 493 Units: 1.5 Hours: 3-0
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 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), CENG (Computer Engineering), CIVE (Civil Engineering), CSC (Computer Science), ELEC (Electrical Engineering), MECH (Mechanical Engineering) and SENG (Software Engineering).

ENGR 001 Units: 4.5
Work Term 1
Students are employed for a work term, normally of four months’ duration. Competencies typically addressed include personal management and workplace 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 210, ELEC 250, MECH 200, SENG 265; and
• permission of the faculty.

ENGR 002 Units: 4.5
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
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 210, ELEC 250, MECH 200, SENG 265; and
• Academic Writing Requirement satisfied; and
• permission of the faculty.

ENGR 004 Units: 4.5
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, ELEC 299, MECH 285, SENG 299; and
• permission of the faculty.

ENGR 100 Units: 1.5 Hours: 3-0-0
Security, Privacy, and You
A non-specialist tailored introduction to cyber-security and cyber-privacy issues within modern societies. Topics to be covered include: basic privacy issues within social networking, mobile location aware services, and the legal and regulatory frameworks governing privacy in Canada; cyber-security approaches in eCommerce, web sites, electronic banking, and mobile devices; common methods of attack; and basic cyber-defense methods and privacy preserving measures. Underlying technologies will be discussed as required but at levels suitable for non-specialists.

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  Units: 1.0  Hours: 1-2-0
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.

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
• ELEC 199 or ENGL 135 (CSC 111 may be taken as a corequisite).

ENGR 130  Units: 0.5
Formerly: 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: MEC 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
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 120, ENGR 225, ENGL 226, ENGL 240.
Prerequisite(s): One of ENGR 110, ENGR 111, ENGR 112 and ENGL 135, ENGR 146, ENGL 147.

ENGR 280  Units: 1.5  Hours: 3-0
Engineering Economics
Note: Credit will be granted for only one of ENGR 280 (if taken prior to May 2012), ADMM 310, ECON 103, ECON 103C, ECON 180, ECON 201.
Prerequisite(s):
• MATH 110 and MATH 133; and
• MATH 211 or MATH 233A.
Pre-re or Corequisite(s): STAT 254 or STAT 260.

ENGR 297  Units: 1.5  Hours: 3-0
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
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 400  Units: 1.5  Hours: 0-6
Sustainable Energy Systems Design Project
Students, working in teams and under the supervision of a faculty member, will undertake a significant engineering design project related to sustainable energy systems. Projects are interdisciplinary, industry-based and span the full range of the design process from client needs analysis to physical or virtual prototype.
Prerequisite(s):
• ENGR 002; and
• permission of the faculty.

ENGR 446  Units: 1.0
Technical Report
A major technical report demonstrating written communication and analytical skills. The report must be approved by the Engineering and Computer Science Math Co-op Program Manager at least two months prior to submission. Work Term Report Guidelines in effect at the time of registration govern report style and format.
Prerequisite(s): ENGR 002 and 6 units of 400-level BME, CENG, CVE, CSC, ELEC, ENGR, MECH, or SENG courses.
Corequisite(s): ENGR 003.

ENGR 498  Units: 1.5  Hours: 3-0
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.

ENT
Entrepreneurship
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), SMGT (Service Management), IB (International Business), MBA (Master's of Business Administration).

ENT 100  Units: 1.5  Hours: 3-0
Successful Innovation
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
Formerly: 302
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
Entrepreneurship Core: Development of New Ventures
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, scanning, planning, financing, start-up and harvesting scripts.

Prerequisite(s):
• All of ENT 410, ENT 411, ENT 412, COM 400.

Corequisite(s): All of ENT 410, ENT 411, ENT 413, COM 400.

ENT 411  Units: 1.5 Hours: 3-0
Venture Marketing Expertise (Promise Skills)
Corequisite(s):
• permission of the school.

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 412  Units: 1.5 Hours: 3-0
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, scanning, planning, financing, start-up and harvesting scripts.

Prerequisite(s):
• All of ENT 310, ENT 316, ENT 321, ENT 322, ENT 331, ENT 341, ENT 351, ENT 361, ENT 362, ENT 371; or permission of the school.

Corequisite(s): All of ENT 410, ENT 411, ENT 412, COM 400.

ENT 413  Units: 1.5 Hours: 3-0
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 ENT 310, ENT 316, ENT 321, ENT 322, ENT 331, ENT 341, ENT 351, ENT 361, ENT 362, ENT 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
Formerly: also GEOG 110
Oceans and Atmosphere
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.

Note: 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.

Prerequisite(s):
• CHEM 102.

EOG 120  Units: 1.5 Hours: 3-3
Formerly: also GEOG 120
The Dynamic Earth

Note: 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
Natural Hazards
An overview of natural hazards including earthquakes, volcanoes, tsunamis, 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
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
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
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 - 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.

**Prerequisite(s):**
- MATH 101, and
- one of PHYS 110, PHYS 112, PHYS 120, PHYS 122.

**Credit will be granted for only one of EOS 210, PHYS 210.**

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### 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, the geothermal gradient, and ocean tides.

**Prerequisite(s):**
- Either MATH 202, or two of MATH 200, MATH 201, MATH 204, MATH 205, and
- one of PHYS 102, PHYS 102A and PHYS 102B, PHYS 110 and PHYS 111, PHYS 112, PHYS 120 and PHYS 130.

**Pre- or Corequisite(s):**
- One of STAT 255, STAT 260, GEOG 226; or permission of the school.

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### EOS 240 - Geochmistry

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. Also covered is short-term ocean and atmospheric geochemistry and long-term Earth history geochemistry.

**Prerequisite(s):**
- All of EOS 110, EOS 120, EOS 205; and
- CHEM 245.

**Credit will be granted for only one of EOS 240, EOS 360 (if taken prior to September 1992).**

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### 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.

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### 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.

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### 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 will 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
- 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 112, PHYS 120 and PHYS 130; and
- minimum third-year standing.

**Recommendation(s):** BIOL 215 and EOS 110 recommended prior to EOS 311.

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### EOS 312 - Introductory Chemical Oceanography

An introduction to the sources, distribution, and transformations of chemical constituents of the ocean, and their relation to biological, chemical, geological, and physical processes. Topics include: controls on average concentration of chemicals in the ocean; vertical and horizontal distributions of ocean constituents; air-sea interactions; production, export, and remineralization of organic matter; the ocean carbon cycle; human-induced changes; stable isotopes and trace elements.

**Prerequisite(s):**
- One of EOS 110, EOS 31A, EOS 431; and
- CHEM 102; and
- one of MATH 100, MATH 102, MATH 109.

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### 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, and coastal geology.

**Prerequisite(s):**
- EOS 120; and
- CHEM 101 or CHEM 150.

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### 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 151; and
- one of PHYS 102, PHYS 102A and PHYS 102B, PHYS 110 and PHYS 111, PHYS 112, PHYS 120.

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### 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, crystallization and sub-solidus recrystallization 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
- EOS 240 or PHYS 217.

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### EOS 330 - 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: palaeoecology, biostratigraphy and palaeobiogeography. 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):**
- Biology 12 or BIOL 150A; and
- EOS 201; or permission of the school.
EOS 335  Units: 1.5  Hours: 3-3
Formerly: part of 430
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 240; or
•  permission of the department.

EOS 340  Units: 1.5  Hours: 3-0-1
Also: PHYS 340
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 and present 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):
•  Either EOS 225, or two of MATH 200, MATH 201, MATH 204, MATH 205; and
•  one of CHEM 245, PHYS 217, PHYS 317.

EOS 350  Units: 1.5  Hours: 3-0
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, overfishin, ocean acidification, marine conservation, and coastal modification.
Notes:
•  Credit will be granted for only one of EOS 350, EOS 311 (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  Units: 1.5  Hours: 3-0
Also: ES 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 EOS 365, ES 365.
Prerequisite(s):
•  Minimum third-year standing.
•  If taken as ES 365, ES 260 and minimum third-year standing.

EOS 400  Units: 1.5  Hours: 3-0
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 300; and
•  either EOS 316, or EOS 310 and EOS 320; and
•  declared Honours or Major in Earth Sciences; or
•  permission of the school.
Recommendation(s): EOS 303 strongly recommended prior to EOS 400.

EOS 403  Units: 1.5  Hours: 3-0
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, phosphorous, 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.
Note: 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  Units: 1.5  Hours: 3-0
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 other major compounds within and across the interface of soils, and the sedimentary and water columns.
Note: 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 department.

EOS 410  Units: 1.5  Hours: 3-0
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 department.

EOS 416  Units: 1.5  Hours: 3-3
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
•  CHEM 245.

EOS 420  Units: 1.5  Hours: 3-3
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.

EOS 422  Units: 1.5  Hours: 3-0
Formerly: part of 420
Energy Resources
Discusses the Earth’s major economic natural energy resources. Focuses on conventional oil and gas, coal, CCB 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.
Notes:
•  Credit will be granted for only one of EOS 422, EOS 420 (if taken prior to Sep-Dec 2004).
•  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 202.
EOS 425  
Units: 1.5  
Hours: 3-3  
**Aqueous Chemistry in the Earth and Ocean**

What controls 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 oxic 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.

**Note:** Normally offered in alternate years. Students are advised to consult with the department to determine when this is offered.

**Prerequisite(s):**
- EOS 240 and
- one of EOS 335, EOS 430, 1.5 units of 300- or 400-level CHEM course; or
- permission of the school.

EOS 427  
Units: 1.5  
Hours: 3-0  
Also: PHYS 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 EOS 427, PHYS 427.
- Normally offered in alternate years. Students are advised to consult with the department to determine when this course is offered.

**Prerequisite(s):** PHYS 321A and PHYS 326.

**Pre- or Corequisite(s):** MATH 346.

EOS 431  
Units: 1.5  
Hours: 3-0  
Also: PHYS 441  
**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.

**Note:** Credit will be granted for only one of EOS 431, PHYS 441.

**Prerequisite(s):**
- Either EOS 225, or two of MATH 200, MATH 201, MATH 204, MATH 205; and
- one of PHYS 110, PHYS 110A and PHYS 102B, PHYS 110, PHYS 111, PHYS 112, PHYS 120; or
- permission of the school.

EOS 433  
Units: 1.5  
Hours: 3-0  
**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.

**Note:** Normally offered in alternate years. Students are advised to consult with the department to determine when this is offered.

**Pre- or Corequisite(s):**
- EOS 340; or
- permission of the school.

EOS 450  
Units: 1.5  
Hours: 3-3-0  
**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, glacial and global change, geological hazards, interdisciplinary research and applied studies, particularly the influence for engineering design.

**Prerequisite(s):**
- EOS 201 and EOS 240; or
- permission of the school.

EOS 460  
Units: 1.5  
Hours: 3-3  
**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.

**Prerequisite(s):**
- 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).

EOS 480  
Units: 1.5  
Hours: 3-3  
**Applied Geophysics**

An introduction to geophysical methods used in resource exploration and in investigations of crustal structure. Topics include principles and applications of seismic, gravity, magnetic, electrical and electromagnetic methods. Emphasis will be placed on interpretation of geophysical data for Earth structure.

**Prerequisite(s):**
- Minimum fourth-year standing; and
- declared Honours or Major in Earth and Ocean Sciences or Physics; or
- permission of the school.

EOS 490  
Units: 1.5 or 3.0  
**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.

**Note:** Students may not take more than 3 units of EOS 490 studies.

**EOS 491**  
Units: 1.5-3.0  
**Advanced Topics in Earth and Ocean Sciences**

Examination of a specific topic in Earth and Ocean Sciences.

**Note:** May be taken more than once for credit in different topics.

**Prerequisite(s):** Permission of the department.

EOS 499A  
Units: 1.5  
**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 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, EDCC, EPHE, IA, IED, IE, ME.

**EPHE 104**  
Units: 0.5  
**Hours: 2-0**

**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.
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EPHE 105</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 105; 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 106.</td>
</tr>
<tr>
<td><strong>EPHE 106</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 106; 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 107.</td>
</tr>
<tr>
<td><strong>EPHE 107</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 107; 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 108.</td>
</tr>
<tr>
<td><strong>EPHE 109</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 109; 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.</td>
</tr>
<tr>
<td><strong>EPHE 113</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 113; 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 113, PE 113.</td>
</tr>
<tr>
<td><strong>EPHE 114</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 114; 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 creative dance. Note: Credit will be granted for only one of EPHE 114, PE 114. Recommendation(s): Recommended for students pursuing degrees in the Faculty of Education.</td>
</tr>
<tr>
<td><strong>EPHE 116</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 116; 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.</td>
</tr>
<tr>
<td><strong>EPHE 117</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 117; 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.</td>
</tr>
<tr>
<td><strong>EPHE 119</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 119; 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 contemporary dance. Note: Credit will be granted for only one of EPHE 119, PE 119. Recommendation(s): Recommended for students pursuing degrees in the Faculty of Education.</td>
</tr>
<tr>
<td><strong>EPHE 120</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 120; 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.</td>
</tr>
<tr>
<td><strong>EPHE 121</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 121; 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.</td>
</tr>
<tr>
<td><strong>EPHE 122</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 122; 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.</td>
</tr>
<tr>
<td><strong>EPHE 123</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 123; 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.</td>
</tr>
<tr>
<td><strong>EPHE 124</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 124; 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.</td>
</tr>
<tr>
<td><strong>EPHE 125</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 125; 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 softball. Note: Credit will be granted for only one of EPHE 125, PE 125. Recommendation(s): Recommended for students pursuing degrees in the Faculty of Education.</td>
</tr>
<tr>
<td><strong>EPHE 126</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 126; 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.</td>
</tr>
<tr>
<td><strong>EPHE 133</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 133; 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.</td>
</tr>
<tr>
<td><strong>EPHE 134</strong></td>
<td>0.5</td>
<td>2-0</td>
<td>Formerly PE 134; 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.</td>
</tr>
</tbody>
</table>
EPHE 135 Units: 0.5 Hours: 2-0
Formerly: PE 135
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 136 Units: 0.5 Hours: 2-0
Lacrosse
Designed to develop each participant's level of performance, ability to analyze skills, and understanding of concepts within the activity of lacrosse.
Note: Credit will be granted for only one of EPHE 136, EPHE 104 (if taken in the same topic), PE 104 (if taken in the same topic).
Recommendation(s): Recommended for students pursuing degrees in the Faculty of Education.

EPHE 137 Units: 0.5 Hours: 2-0
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
Formerly: PE 141
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
Formerly: PE 142
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 abuse/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
Formerly: PE 143
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
Formerly: PE 144
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 144, PE 244.

EPHE 145 Units: 1.5 Hours: 3-2
Formerly: PE 145
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 145, PE 245.

EPHE 146 Units: 1.5 Hours: 3-0
Formerly: PE 144, PE 246
Teaching 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.

EPHE 147 Units: 1.5 Hours: 3-2
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).
Note: Credit will be granted for only one of EPHE 241, EPHE 241B, PE 241B.

EPHE 148 Units: 1.5 Hours: 3-0
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.

EPHE 241 Units: 1.5 Hours: 3-0
Formerly: 241B, PE 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.

EPHE 242 Units: 1.5 Hours: 3-2
Formerly: 241A, PE 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.

EPHE 243 Units: 1.5 Hours: 3-0
Formerly: PE 243
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
Formerly: PE 244
Co-op Seminar: Introduction to Professional Practice
Discusses the nature of co-operative education experiential education expectations, how to bring learning into the co-op experience, and the services provided by the EPHE Co-op Office. Advice on how to apply for and succeed in co-op placements, write about the experience and assist in job development.
Note: Offered in the September to December academic term.
Grading: COM, N, F

EPHE 245 Units: 1.5 Hours: 3-2
Formerly: PE 245
Co-op Seminar: Introduction to Professional Practice
Discusses the nature of co-operative education experiential education expectations, how to bring learning into the co-op experience, and the services provided by the EPHE Co-op Office. Advice on how to apply for and succeed in co-op placements, write about the experience and assist in job development.
Note: Offered in the September to December academic term.
Grading: COM, N, F

EPHE 246 Units: 1.5 Hours: 3-0
Formerly: PE 144, PE 246
Co-op Seminar: Introduction to Professional Practice
Discusses the nature of co-operative education experiential education expectations, how to bring learning into the co-op experience, and the services provided by the EPHE Co-op Office. Advice on how to apply for and succeed in co-op placements, write about the experience and assist in job development.
Note: Offered in the September to December academic term.
Grading: COM, N, F

EPHE 247 Units: 1.5 Hours: 3-2
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).
Note: Credit will be granted for only one of EPHE 241, EPHE 241B, PE 241B.

EPHE 248 Units: 1.5 Hours: 3-0
Formerly: 241B, PE 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.

EPHE 249 Units: 1.5 Hours: 3-2
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).
Note: Credit will be granted for only one of EPHE 241, EPHE 241B, PE 241B.

EPHE 250 Units: 1.5 Hours: 3-0
Inclusion of Students with Special Needs in Physical Education
An introduction to the development, implementation, and assessment of inclusive physical education programs for learners with disabling conditions. The course includes experiential learning with students with special needs.
EPHE 252 - Units: 1.5 - Hours: 3-0
Formerly: PE 252
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 270 - Units: 1.5 - Hours: 3-0
Formerly: PE 270
Foundations of Outdoor Recreation
Exploration of the outdoor environment as a venue for leisure and educational experiences. Leadership roles in environmental protection, influence on participant behaviour and quality of experience are examined. Other topics include survey and investigation of theoretical and common definitions of outdoor recreation, outdoor education and interpretation, delivery systems, populations and special interest groups; planning, environmental ethics, safety, and health; ecotourism.
Note: Credit will be granted for only one of EPHE 252, PE 253.

EPHE 310 - Units: 1.5 - Hours: 3-0
Formerly: PE 310, part of PE 304
Physical Education for General Classroom Teachers: A
Assists generalist teachers in planning and implementing physical education programs for the elementary grades. Students will 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): EPHE 310 or PE 310; and admission to BEd program in Elementary Education.

EPHE 344 - Units: 1.5 - Hours: 2-1
Formerly: PE 344
Care and Prevention of Athletic Injuries
An introduction to general athletic training practices. Topics to be covered 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): One of EPHE 241, EPHE 241B, PE 241B; or permission of the school.

EPHE 346 - Units: 1.5 - Hours: 3-0
Formerly: PE 346
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
Formerly: PE 347
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
Formerly: PE 348
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 351 - Units: 1.5 - Hours: 3-0
Formerly: PE 351
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
Formerly: PE 352
Instructional Techniques in Individual Activities Secondary
Methods of teaching individual activities to secondary 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 BEd (Secondary Curriculum) program with physical education teaching area.

EPHE 355 - Units: 1.5 - Hours: 3-0
Formerly: PE 355
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 rehabilitation exercises. There will be 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
• one of EPHE 241, EPHE 241B, PE 241B; and
• admission to BSc program in Kinesiology.

EPHE 356 - Units: 1.5 - Hours: 3-0
Formerly: PE 356
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
Formerly: PE 357
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
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.
Prerequisite(s): One of COOP 001, RHED 001, KINE 001.

EPHE 359 - Units: 1.5 - Hours: 3-0
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
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):
• One of EPHE 241, EPHE 241B, PE 241B; or
• permission of the school.

EPHE 361 - Units: 1.5 - Hours: 3-3
Formerly: PE 361
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 380 - Units: 1.5 - Hours: 3-2
Formerly: PE 380
Motor Control
An examination of the neural processes involved in the maintenance of posture, the control of movement, and issues related to understanding the cerebral organization of goal-directed movement. Includes discussion of certain movement disorders and the relationship of disturbances to stages in the sequence of information processing.
Note: Credit will be granted for only one of EPHE 380, PE 380, PE 442.
Prerequisite(s):
• EPHE 241 or EPHE 241B, and
• EPHE 245 or PE 241B, and
• PE 245.

EPHE 435 - Units: 1.5 - Hours: 3-0
Formerly: PE 435, EDUC 435
Cultural and Outdoor Physical Activity
Provides the opportunity for students to develop an understanding and appreciation of a variety of outdoor physical activities and cultural movement forms suitable for elementary school children. Movement forms are drawn primarily from the alternative-environment, dance, and games movement categories in the Physical Education K-7 Integrated Resource Package. A school-based experience may be included.
Note: Credit will be granted for only one of EPHE 435, PE 435, EDUC 435.
Prerequisite(s): Admission to BEd program in Elementary Education.

EPHE 439 - Units: 1.5 - Hours: 3-0
Formerly: PE 439, EDUC 445
Creative Movement
Laban’s four elements of movement (space awareness, body awareness, qualities and relationships) for analyzing and teaching creative movement activities. Instructional strategies will stress exploratory methods and techniques. Practical applications to dance, gymnastics and games.
Note: Credit will be granted for only one of EPHE 439, EDUC 445, PE 439.
Prerequisite(s): Declared BEd program (Elementary Curriculum).

EPHE 441 - Units: 1.5 - Hours: 3-2
Formerly: PE 441
Exercise Physiology
The physiological adaptation of the human body to acute and chronic exercise; nutrition for exercise and recovery.
Note: Credit will be granted for only one of EPHE 441, PE 441.
Prerequisite(s):
• One of EPHE 241, EPHE 241B, PE 241B; and
• one of EPHE 241A, EPHE 242, PE 241A.
EPHE 443 Units: 1.5 Hours: 3-0
Formerly: PE 443
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.

EPHE 444 Units: 1.5 Hours: 3-2
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.

EPHE 445 Units: 1.5 Hours: 3-0
Formerly: PE 445
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.

EPHE 447 Units: 1.5 Hours: 2-0-2
Formerly: PE 447
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 or PE 253; and
- minimum fourth-year standing; and
- admission to BSc program in Kinesiology.

EPHE 449 Units: 1.5 Hours: 3-0
Formerly: PE 449
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):
- One of EPHE 241, EPHE 241B, PE 241B; or
- permission of the school.

EPHE 451 Units: 1.5 Hours: 3-0
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.

EPHE 452 Units: 1.5 Hours: 3-0
Formerly: PE 452
Teaching Strategies for Games in Physical Education
Methods of teaching game activities to students in secondary schools and related groups. Field experience is required as part of this course.
Note: Credit will be granted for only one of EPHE 452, PE 452.
Prerequisite(s): Admission to BEd (Secondary Curriculum) program with physical education teaching area.

EPHE 454 Units: 1.5 Hours: 3-0
Formerly: PE 454
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.

EPHE 455 Units: 1.5 Hours: 3-0
Formerly: PE 455
Nutrition for Exercise and Health
The study of nutrition in the applied context of physical activity, exercise and sport performance. 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 or PE 155.

EPHE 456 Units: 1.5 Hours: 3-0
Formerly: PE 456
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 will be 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): One of EPHE 241, EPHE 241B, PE 241B.

EPHE 457 Units: 1.5 or 3.0 Hours: 3-0
Formerly: PE 457
Special Topics in Exercise Science, Physical and Health Education
Topics of current interest or concern to groups of students.
Notes:
- May be taken more than once for credit in different topics.
- Pro Forma required.

EPHE 494 Units: 1.5
Formerly: PE 494
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.

EPHE 499 Units: 3.0
Formerly: PE 499
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

EPHE 764 Units: 1.5 Hours: 3-0
Formerly: PE 764
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.
Environmental Restoration
School of Environmental Studies
Faculty of Social Sciences

ER 200 Units: 0.5 per module
Scientific Principles and Concepts for Environmental Restoration
An opportunity to gain background knowledge in selected scientific disciplines in preparation for taking the RNS program. Possible topics may include ground water, quantitative ecology, statistics, marine biology and others. Students take modules of existing courses at the University of Victoria. Note: A module consists of the first third of a scheduled course.
Prerequisite(s):
• Admission to Certificate or Diploma program in Restoration of Natural Systems; or
• permission of the program.

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 will engage in experiential learning and assessment of methods in ecological restoration 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. 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.

ER 311 Units: 1.5 Hours: 3-0
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 2015), 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
Also: ES 348
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, and 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  
Mining 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): Background in physical geography such as GEOG 213 or equivalent strongly recommended prior to ER 329.

ER 330 - 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 331 - Units: 1.5  
Urban Restoration and Sustainable Agricultural Systems  
The role of restoration of 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  
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 334 - Units: 1.5  
Ecological Restoration  
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.  

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  
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 337 - Units: 0.5 to 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 338 - Units: 0.5 to 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 390 - 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: INC, COM.  

ER 411 - Units: 1.5  
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.
Directed Studies

Those impacts can be best addressed. Climate change, biodiversity loss, deforestation) and how to view and understand human impacts on ecosystems (e.g., problems and approaches to resolving them. Global and Introduction to the symptoms and sources of environmental problems and approaches to resolving them. Global and Introduction to Environmental Studies

Formerly: ES 200

Units: 1.5

Hours: 3-1

Introduction to Environmental Studies

Introduction to the symptoms and sources of environmental problems and approaches to resolving them. Global and local food systems will be used as a focal lens through which to view and understand human impacts on ecosystems (e.g., climate change, biodiversity loss, deforestation) and how those impacts can be best addressed.

Note: Credit will be granted for only one of ES 200, ES 300A.

ES 240

Units: 1.5

Hours: 3-0-1

Ecological Processes

An introduction to the discipline of ecology with a focus on understanding biotic processes as they relate to contemporary environmental challenges. Tutorials emphasize methodologies for the generation, analysis, and application of data.

Recommendation(s): ES 200 recommended prior to or in conjunction with ES 240.

ES 250

Units: 1.5

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 will engage in experiential learning and assessment of methods in ecological restoration 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 includes 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.

ES 270

Units: 1.5

Hours: 1-2

Introductory Field Study

A field-based introduction to environmental problems and solutions, such as assessing stream function and proposing enhancements to improve water quality and riparian areas. Typically offered in a compressed format. Additional fees may be necessary to support field expenses.

Pre- or Corequisite(s): ES 200.

ES 301

Units: 1.5

Hours: 3-1

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.

ES 312

Units: 1.5

Hours: 3-0

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):

- permission of the school.

ES 314

Units: 1.5

Hours: 3-0

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

Hours: 3-0

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
- ES 215 and ES 230; and
- STAT 255 or STAT 260.

ES 321

Units: 1.5

Hours: 3-0

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
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 re-examination 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
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):
• BIOL 215 and STAT 255; and
• minimum third-year standing.
Recommendation(s): STAT 256 recommended prior to ES 344.

ES 348 Units: 1.5 Hours: 3-0
Also: ER 313
Formerly: 318
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
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
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
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 380 Units: 1.5 Hours: 3-0*
Formerly: 300B
Environmental Topics: Topics in Ethnoecology
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 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*
Formerly: 300B
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.

ES 384 Units: 1.5 Hours: 3-0
Formerly: 414
Systems Theory: An Introduction to Natural and Social Systems
Enables each participant to grasp the fundamental principles of systems theory, and provides a foundation for further exploration and application of systems concepts. Examines concepts such as cybernetics, holism, boundaries, negative and positive feedback, self-organization and transformation. Students will learn to apply these principles to both natural and social systems.
Note: Credit will be granted for only one of ES 384, ES 400D (if taken in Sep 1989 - Apr 1990), ES 414.
Prerequisite(s):
• ES 200; and
• one of ES 301, ES 321, ES 341.
ES 399 Units: 1.5 Hours: 3-0
Argumentation and evidence in environmental research
Builds the skills necessary to critically assess environmental issues and research. Emphasis will be placed on critical assessment of evidence of all kinds, grounded in an understanding of quantitative and qualitative methodological considerations. Students will evaluate a wide variety of approaches to understanding and addressing real-world environmental challenges, and work towards producing their own compelling and comprehensive analysis of these challenges.
Prerequisite(s):
- ES 200 and ES 240, and
- minimum third-year standing.

ES 402 Units: 1.5 Hours: 3-0
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 402, ES 400A (if taken in Sep 1993 - Apr 1994), ES 420.
Prerequisite(s): ES 200 and ES 301.

ES 403 Units: 1.5 Hours: 3-0
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.
Note: Credit will be granted for only one of ES 403, LAW 384, LAW 343 (if taken in the same topic).

ES 404 Units: 1.5 Hours: 3-0
Formerly: 424
Discourses of Environmentalism
A seminar examining classic works and persistent themes in North American environmental thought. A study of primary source material and texts by writers such as Thoreau, Austin, Muir, Pinchot, Leopold, Carson, Ellul, Schumacher, Berry and Shiva.
Note: Credit will be granted for only one of ES 404, ES 400D (if taken in Sep 1993 - Apr 1995), ES 424.
Prerequisite(s): ES 200 and ES 301.

ES 405 Units: 1.5 Hours: 3-0
Climate, Energy and Politics
Focuses on developing the knowledge and skills necessary to evaluate how we might reshape energy systems to address the dual challenges of climate change and sustainability.
Note: Credit will be granted for only one of ES 405, ES 480 (if taken in Jan-Apr 2005 or Jan-Apr 2006 or Sep-Dec 2008).
Prerequisite(s): ES 200 and ES 301.

ES 407 Units: 1.5 Hours: 3-0
Mindfulness, Sustainability, and Social Change
Examines how mindfulness training, particularly meditation, is being integrated into contemporary environmental and social change efforts. Current research on the physical, psychological, ecological and social benefits of mindfulness training will be examined. Students will be introduced to a variety of meditative practices as part of the course.
Note: Credit will be granted for only one of ES 407, ES 480 (if taken in the same topic).

ES 415 Units: 1.5 Hours: 3-0
Integral Systems Theory: Philosophy and Practice
The history and philosophy of integral systems theory and its application at the individual and community level. Recent trends in light of panarchy theory and integral ecology.
Prerequisite(s):
- ES 200 and ES 301; and
- ES 384 or ES 414

ES 417 Units: 1.5 Hours: 3-0
Formerly: ES 422
Power, Difference, and Environmental Politics
Explores how environmental politics is shaped by and seek to challenge relations of oppression.
Note: Credit will be granted for only one of ES 417, ES 400A (if taken in Sep 1994 - Apr 1995), ES 422.
Prerequisite(s): ES 200 and ES 301.

ES 419 Units: 1.5 Hours: 3-0
Formerly: ES 450
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 of ES 419, ES 450, LAW 338.
Prerequisite(s): ES 200 and ES 301.

ES 421 Units: 1.5 Hours: 3-0
Formerly: ES 416
Ethnobotany: Plants and Human Cultures
An introduction to the study of the relationship between plants and human cultures, with a focus on the indigenous peoples and environments of northwestern North America. Use of plants as foods, medicines and materials, plant nomenclature and folk classification, and the role of plants in religion and mythology are topics covered. There will be one or more field trips.
Note: Credit will be granted for only one of ES 421, ES 416.
Prerequisite(s): ES 200 and ES 321.

ES 423 Units: 1.5 Hours: 3-0
Also: ER 326
Formerly: ES 353
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 ES 423, ES 353, ER 326.
Prerequisite(s): ES 200 and ES 321.

ES 425 Units: 1.5 Hours: 3-3
Also: BIOL 449
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.
Note: Credit will be granted for only one of ES 425, BIOL 449, BIOL 318.
Prerequisite(s):
- All of BIOL 184, BIOL 186, and
- minimum third-year standing.
Recommendation(s): BIOL 324 recommended prior to ES 425.

ES 427 Units: 1.5 Hours: 3-0
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 repossesional 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
Urban Ethnecology
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 ethnecological 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.
Climate Change and Biodiversity

Note: Climate-driven biodiversity loss.

Attention is given to reading scientific papers, both those on management, including ecological restoration. Particular emphasis is placed on 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.

Credit will be granted for only one of ES 443, ANTH 401.

Prerequisite(s):
- ES 200, and
- ES 301 or ES 321.
- If taken as ANTH 401, ANTH 200;
or permission of the department.

ES 441 Units: 1.5 Hours: 3-0

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.

Credit will be granted for only one of ES 441, ES 482 (if taken in the same topic).

Prerequisite(s):
- ES 341 and ER 311; or
- permission of the school.

ES 443 Units: 1.5 Hours: 3-0

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 patterns and process changes, as well as those that present management solutions to climate-driven biodiversity loss.

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

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.

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

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.

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 461 Units: 1.5 Hours: 3-0

Also: GEOG 301

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.

Credit will be granted for only one of ES 461, ES 410, ES 400A (if taken in the same topic), GEOG 301, GEOG 301, GEOG 391 (if taken in the same topic).

Prerequisite(s):
- ES 200, and
- ES 301, ES 321, ES 341.
- If taken as GEOG 301, GEOG 209.

ES 470 Units: 1.5 Hours: 1-2

Formerly: ES 350

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.

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 Hours: 3-0

Also: ER 412

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.

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 480 Units: 1.5 Hours: 3-0*

 Formerly: 400A-D

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*

 Formerly: 400A-D

Advanced Environmental Topics in Ethnecology

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*
Formerly: 400A-D
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; 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

EUS 100  Units: 1.5  Hours: 3-0
Introduction to European Studies
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.

EUS 200  Units: 1.5  Hours: 3-0
Introduction to European Cultures and Identities
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.

EUS 300  Units: 1.5  Hours: 3-0
European Integration: Socio-Economic and Political Developments
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.
Note: May be taken more than once for credit in different topics with permission of the program.

EUS 301  Units: 1.5  Hours: 3-0
Cultural and Intellectual Systems and Developments in Europe
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.
Note: May be taken more than once for credit in different topics with permission of the program.

EUS 390  Units: 1.5  Hours: 0-3
Directed Studies in Europe
Constitutes the academic element of either the EU Study Tour offered through Capilano University, or another European Study tour approved by the Program. The Session and Term will normally follow immediately upon the Tour, and the course content must be determined in advance of the Tour in consultation with the Director of the Program.
Note: Students who have completed the Capilano University EU Study Tour may request permission to register in the course.
Satisfies the experiential requirement for students completing a Major or Honours in Political Science with a Concentration in European Studies.
Prerequisite(s): Permission of the school.

FA Fine Arts
Interdisciplinary Courses

FA 100  Units: 1.5  Hours: 2-1
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 6 units.

FA 305  Units: 1.5 or 3.0  Hours: 3-0
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
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.
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.

Notes: 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.

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; and
- Admission to a program in Fine Arts.

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.

Notes: May be taken more than once for credit in different topics to a maximum of 3 units.

Directed Studies in Fine Arts
Individual research in Fine Arts taken under the supervision of a faculty member. Permission of faculty member supervising the project and approval of the Associate Dean.

Note: May be taken more than once for credit in different topics to a maximum of 4.5 units.

FRAN - French
Department of French
Faculty of Humanities
Note: The departmental language and literature requirements are described here.

FRAN 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 120 - 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 - 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.

Corequisite(s): FRAN 160.

FRAN 160 - 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.

Note: Normal entry point for students with French 12. Students must register in one of the lab sections.
- Not open to credit for students with FREN 155, FREN 181, FREN 182, or immersion beyond Grade 9.

Prerequisite(s):
- One of FRAN 120, French 12, FREN 107; or
- Permission of the department.

FRAN 180 - 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
- Permission of the department.

FRAN 200 - 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 204, FREN 205.
- 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 - 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.
- Enrollment limited.

Prerequisite(s): One of FRAN 180, FREN 175, FREN 181, FREN 182, FREN 190, FREN 195.

FRAN 250 - 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 - 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 - 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
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
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 FREN 100 before undertaking FRAN 300.
Credit may be obtained for both FRAN 300 and any other FREN 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
Formerly: 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.

Prerequisite(s):
• FRAN 280.

FRAN 325 Units: 1.5 Hours: 3-0
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 3 units.

FRAN 335 Units: 1.5 Hours: 3-0
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.
• Students with minimum third-year standing may request permission to register in the course.

Prerequisite(s):
• HA 265; or
• minimum third-year standing.

Pre- or Corequisite(s):
• One of AHVS 295A, AHVS 295B, HA 295, HA 295A, HA 295B; or
• permission of the department.

FRAN 340 Units: 1.5 Hours: 3-0
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.

Pre- or Corequisite(s):
• If taken in French, FREN 275 with a minimum grade of C+; or
• permission of the department.

FRAN 350 Units: 1.5 Hours: 4-0
Formerly: FREN 350
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
Formerly: FREN 375
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 375.

Pre- or Corequisite(s):
• FRAN 275 with a minimum grade of C+; or
• permission of the department.

FRAN 380 Units: 1.5 Hours: 3-0
Formerly: FREN 380
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 380.

Pre- or Corequisite(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
Formerly: FREN 385
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 385.

Pre- or Corequisite(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
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.

Pre- or Corequisite(s):
• FRAN 310; or
• permission of the department.
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<th>COURSE LISTINGS FRAN</th>
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| **FRAN 400** Units: 1.5 Hours: 3-0  
Formerly: FREN 420, 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 380 and FRAN 385; or  
  - permission of the department. |
| **FRAN 402** Units: 1.5 Hours: 3-0  
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  
Formerly: FREN 425A  
**History of French**  
The evolution of the French language from the eighth to the 18th century. 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  
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  
Formerly: FREN 426, 426A, 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  
**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.  
*Prerequisite(s):*  
  - FRAN 275 with a minimum grade of C+.  
  - permission of the department. |
| **FRAN 411** Units: 1.5 Hours: 3-0  
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+.  
  - permission of the department. |
| **FRAN 412** Units: 1.5 Hours: 3-0  
Formerly: FREN 482  
**Contemporary French-Canadian Novel**  
The French-Canadian novel in the second half of the 20th century, in particular la nouvelle écriture 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+.  
  - permission of the department. |
| **FRAN 415** Units: 1.5 Hours: 3-0  
Formerly: FREN 485  
**French-Canadian Poetry**  
French-Canadian poetry from Emile Nelligan to the present. Emphasis on Alain Grandbois, St-Denys Garioune, Anne Hébert, Rina Lasnier, Gaston Miron, Roland Giguère, Michel Beaulieu, Nicole Brossard.  
*Note:* Credit will be granted for only one of FRAN 415, FREN 485.  
*Prerequisite(s):*  
  - FRAN 275 with a minimum grade of C+.  
  - permission of the department. |
| **FRAN 417** Units: 1.5 Hours: 3-0  
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 the original. May include works by George Bowering, Daphne Marlatt, Loka Lemire Tostevin, Jacques Poulin, Tomson Highway and Nicholas 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+.  
  - permission of the department. |
| **FRAN 420** Units: 1.5 Hours: 3-0  
**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 477 (if taken in the same topic), 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+.  
  - permission of the department. |
| **FRAN 422** Units: 1.5 Hours: 3-0  
Formerly: FREN 477A, part of FREN 477  
**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+.  
  - permission of the department. |
FRAN 423  Units: 1.5  Hours: 3-0  
Formerly: FREN 477B, part of FREN 477  
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  
Studies in French Literatures and Culture before 1800  
The studies 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 446A, 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  
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 444.  
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  
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, Carnaval, 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  
Formerly: FREN 446A  
Renaissance Poetry  
Through a selection of poems of the late medieval and Renaissance periods, in the original, 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  
Formerly: FREN 448  
Renaissance Prose  
Love, betrayal, justice, humour 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 438  Units: 1.5  Hours: 3-0  
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 443  Units: 1.5  Hours: 3-0  
Representations of 17th-Century French Society  
The study of texts and images of the age of Louis XIII and Louis XIV, with emphasis on the changing roles of women, social class and family dynamics under the influence of developments in language, art, religion and politics.  
Notes:  
• Credit will be granted for only one of FRAN 443, FREN 446A, FREN 446B, FREN 450A, FREN 450B, FREN 452, FREN 455B.  
• Students with credit for FREN 446A, FREN 450A, FREN 450B, 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 445  Units: 1.5  Hours: 3-0  
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  
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  
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 466A (if taken in the same topic), FREN 446B (if taken in the same topic), FREN 462B (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 452  Units: 1.5  Hours: 3-0  
French Romanticism  
A survey of texts from different literary and artistic genres from the key post-revolutionary French artistic movement known as Romanticism.  
Notes:  
• Credit will be granted for only one of FRAN 452, 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 466.  
• Students with credit for FREN 446D, FREN 460A, FREN 460B, FREN 466 must consult the department to determine whether they may obtain a waiver to take this course for credit.  
Pre-requisite(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  
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 466.  
• Students with credit for FREN 446D, FREN 460A, FREN 460B, FREN 466 must consult the department to determine whether they may obtain a waiver to take this course for credit.  
Pre-requisite(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  
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 462B (if taken in the same topic), FREN 462C (if taken in the same topic), 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.  
Pre-requisite(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  
Formerly: FREN 470  
20th-Century French Theatre  
The distinctive characteristics of modern theatre and of major theatrical movements; plays illustrating different themes and theatrical styles.  
Notes:  
• Credit will be granted for only one of FRAN 456, FREN 470.  
Pre-requisite(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  
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.  
Pre-requisite(s): FRAN 275 with a minimum grade of C+.  
Pre- or Corequisite(s):  
• FRAN 310; or  
• permission of the department.

FRAN 459  Units: 1.5  Hours: 3-0  
Environment, Society and Sustainability  
Introduction to the functioning of the biosphere, the ways in which humans alter natural processes, environmental consequences of these alterations and the implications for sustainability. Topics include: energy flows, biogeochemical cycles, ecosystem structure and dynamics, pollution, global change, water resources, biodiversity, endangered species, protected areas, agriculture and food, forestry, marine resources, poverty and development and different worldviews. Potential for a sustainable society is discussed.  
Note: Credit will be granted for only one of GEOG 101A, ES 101.

GEOG 101A  Units: 1.5  Hours: 3-2  
Introduction to Human Geography  
Perspectives on the scope and purpose of human geography, emphasizing approaches, concepts and scales of geographical analysis. Topics include: social geography of cities; interpretation of regional, cultural and economic landscapes; urbanization and industrialization of regions; and economic development and social change in the world system.

GEOG 101B  Units: 1.5  Hours: 3-2  
Introduction to Physical Geography  
Introduces the science of Physical Geography using an earth-systems approach. Course themes include global climates and climate change, hydrology and water resources, geomorphology and natural hazards, and biogeography; with focus on how geographic sciences are applied to address real world issues.  
Note: Not open to students with credit in any of GEOG 110 (EOS 110), GEOG 120 (EOS 120) if taken prior to May-Aug 2011.
**GEOG 209**

**Units:** 1.5

Introduction to Environmental Management

Introduces students to the conceptual foundations of resource and environmental management by emphasizing geographic aspects of resource systems within environmental, social, economic, and policy frameworks. Using a variety of examples, it examines strategies and tools such as adaptive management approaches, ecosystem-based management, impact assessment, and conflict resolution.

**Notes:**
- Credit will be granted for only one of GEOG 209, GEOG 350, GEOG 350A, GEOG 350B, ES 316.
- Prerequisite(s): GEOG 101A and GEOG 103.

**GEOG 211**

**Units:** 1.5

Political and Economic Geography

Examines the major thematic concerns that have traditionally shaped the sub-disciplines of political and economic geography, while also engaging with emerging issues that are likely to become focal points in shaping future debates. Explores the co-constitutive relationship between politics, economics and space.

**Notes:**
- Credit will not be granted for only one of GEOG 211, GEOG 201A, GEOG 201B.
- Prerequisite(s):
  - GEOG 101B, and
  - minimum second-year standing.

**GEOG 218**

**Units:** 1.5

Social and Cultural Geography

Introduction to social and cultural geography with a focus on the interpretation of cultural landscapes, place-making, and the spatial expression of social and cultural identities. Lab assignments involve fieldwork and critical reflection on the relation between culture, society and landscape.

**Notes:**
- Prerequisite(s): GEOG 101B.

**GEOG 222**

**Units:** 1.5

Introduction to Maps and GIS

Introduces techniques and fundamentals of spatial data and analysis. Topics include: scale, map interpretation, GPS and Geographic Information Systems.

**Notes:**
- Prerequisite(s): Minimum second-year standing.

**GEOG 226**

**Units:** 1.5

Introduction to Quantitative Methods in Geography

Application of statistical techniques to geographic problems. Topics include hypothesis formulation, sampling strategies, parametric and nonparametric statistical tests, statistical models. All laboratory exercises are computer based.

**Notes:**
- Credit will be granted for only one of GEOG 226, GEOG 321.
- See “Credit Limit - Beginning Level Statistics Courses”.

**GEOG 228**

**Units:** 1.5

Introduction to Remote Sensing

Introduces the use of remotely sensed images to address information issues related to both physical and human geography. Students will be exposed to a range of image types and resolutions, as well as methods and tools used for their analysis.

**Prerequisite(s):** Minimum second-year standing.

**GEOG 252**

**Units:** 1.5

Introduction to Coastal Geography

Explores a wide variety of coastal topics from biophysical, ecological, and social-economic perspectives. Topics focus on coastal landscapes and communities that may include fundamentals of coastal oceanography, climate, biodiversity, water quality, fisheries, indigenous people, tourism and implications for management.

**Notes:**
- Credit will be granted for only one of GEOG 252, GEOG 352.

**GEOG 272**

**Units:** 1.5

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):** One of GEOG 103, GEOG 110, EOS 110.

**GEOG 274**

**Units:** 1.5

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.

**Recommendation(s):** Biology 12 or BIOL 150B recommended prior to GEOG 274.

**GEOG 276**

**Units:** 1.5

Introduction to Geomorphology

Introduction to Earth surface process and landforms including riverine, desert, coastal, glacial, hillslope 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 diaspora, and the legacy of colonialism in Africa.

**Prerequisite(s):** Minimum second-year standing.

**GEOG 301**

**Units:** 1.5

Also: ES 461 Formerly: ES 410

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.

**Notes:**
- Credit will be granted for only one of GEOG 301, GEOG 391 (if taken in the same topic), ES 400A (if taken in Sept 1989 - Apr 1990), ES 410, ES 461.

**GEOG 303**

**Units:** 1.5

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, and current topics in the marine mammal sphere will be critically examined.

**Notes:**
- Credit will be granted for only one of GEOG 303, GEOG 391 (if taken in the same topic).

**Prerequisite(s):**
- GEOG 274, and
- BIOL 150A or BIOL 190B

**GEOG 304**

**Units:** 1.5

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.

**Notes:**
- Credit will be granted for only one of GEOG 304, GEOG 391 (if taken in the same topic).

**GEOG 306**

**Units:** 1.5

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

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 391**

Formerly: GEOG 103, GEOG 104

Note:
- BIOL 150A or BIOL 190B.

**GEOG 391 (if taken in the same topic).**

**Prerequisite(s):** GEOG 101A and GEOG 103.
GEOG 309  
Units: 1.5  
Hours: 3-0  
Formerly: 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  
Formerly: 214  
** 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: 3-0  
** 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  
** 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; and microwave/LIDAR interaction with Earth materials.  
Prerequisite(s):  
• GEOG 222 and GEOG 228; and  
• one of GEOG 226, STAT 255, STAT 260.

GEOG 322  
Units: 1.5  
Hours: 2-2  
** Digital Remote Sensing  
Processing and analysis of digital remotely sensed data. Data from various sources will be discussed and analyzed with respect to their applicability in geographical sciences. Laboratory assignments will use image analysis software in a variety of applications.  
Prerequisite(s):  
• GEOG 222 and GEOG 228; and  
• one of GEOG 226, STAT 255, STAT 260.

GEOG 323  
Units: 1.5  
Hours: 2-2  
** Cartography  
Introduces topographic and thematic cartography. Emphasis on cartographic data manipulation, generalization, and symbolization; map design, visualization and communication. Laboratory assignments will provide practical experience in designing and drafting maps.  
Prerequisite(s): GEOG 222 and GEOG 226.

GEOG 324  
Units: 1.5  
Hours: 3-0  
** 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  
** 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.  
Recommendation(s): 1.5 units of GEOG 100-level recommended prior to GEOG 325.

GEOG 327  
Units: 1.5  
Hours: 2-2  
** 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 327.

GEOG 328  
Units: 1.5  
Hours: 2-2  
** GIS Analysis  
Focuses on analysis for digital mapping and modeling, developing and using geographic data to answer spatial research questions, conducting basic spatial interpolations, and carrying-out multi-criteria modelling.  
Prerequisite(s):  
• GEOG 222 and GEOG 228; and  
• one of GEOG 226, STAT 255, STAT 260.

GEOG 329  
Units: 1.5  
Hours: 2-2  
** 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  
• one of GEOG 226, STAT 255, STAT 260.

GEOG 332  
Units: 1.5  
Hours: 3-0  
** 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 339  
Units: 1.5  
Hours: 3-0  
Formerly: Part of 472  
** Disaster Management and Community Resilience  
Explores hazard events and the factors and conditions that lead to disasters. Covers such events as earthquakes, hurricanes, tsunamis, floods, and droughts and examines their human and natural dimensions. Emphasis on understanding vulnerability and risk assessment, sustainable hazards mitigation and disaster management approaches to enhancing community resilience.  
Note: Credit will be granted for only one of GEOG 339, GEOG 391 (if taken in the same topic), GEOG 472.  
Prerequisite(s): All of GEOG 105, GEOG 211, GEOG 218.

GEOG 340  
Units: 1.5  
Hours: 3-0  
** Geographies of the North American City  
Overview of key thematic areas in urban geography with a focus on North American cities. Includes various case studies, along with first-hand fieldwork training, to foster a deeper appreciation for the geographic dimensions of the urban experience.  
Note: Credit will be granted for only one of GEOG 340, GEOG 340B, GEOG 349.  
Prerequisite(s): GEOG 211 and GEOG 218.

GEOG 346  
Units: 1.5  
Hours: 3-0  
** Geographies of Environment and Health  
Theories and methods involved in environment and health research from a medical geographical perspective. “Environment” includes urban, social, political, cultural and physical environments. “Health” includes complete social, physical, and emotional well-being. Current issues in environment and health will be placed within a wider social/ community context.  
Prerequisite(s): All of GEOG 101A, GEOG 211, GEOG 218.

GEOG 347B  
Units: 1.5  
Hours: 3-0  
 Formerly: half of 347  
** Geographies of Development  
A critical examination of development theories, trends and issues. Topics included are the definition and measurement of poverty and inequality, an overview of global population growth and structure, the impact of globalization on third-world economies, the effectiveness of foreign aid, and food security constraints.  
Note: Credit will be granted for only one of GEOG 347B, GEOG 347.  
Prerequisite(s): GEOG 211 and GEOG 218.
GEOG 353 - GEOG 391

GEOG 353  Units: 1.5  Hours: 3-0
Formerly: 452
Coastal and Marine Resources
A systematic integration of the biophysical, socioeconomic and policy dimensions of threats and opportunities in coastal areas framed within integrated coastal management. Topics include: fisheries, aquaculture, energy, transportation, recreation and tourism, urban development and marine protected areas. Discusses coastal planning and zoning approaches to balance threats, opportunities and conflicts.
Note: Credit will be granted for only one of GEOG 353, GEOG 452.
Prerequisite(s): GEOG 252 or GEOG 352.

GEOG 355  Units: 1.5  Hours: 3-0
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 357  Units: 1.5  Hours: 3-0
Formerly: 455; 459A and 459B
Parks and Protected Areas
An investigation of the principles and concepts underlying the designation, planning and management of protected areas such as national and provincial park systems. Topics include: the history and philosophy of protected areas; international classifications and examples; role of native peoples; carrying capacity; visitor management; interpretation; ecosystem integrity; ecosystem management; and a variety of case studies. Students should be prepared to undertake one or more weekend field trips, a fee for each field trip may be applied.
Note: Credit will be granted for only one of GEOG 357, GEOG 455, GEOG 459A, GEOG 459B.
Prerequisite(s): GEOG 209.

GEOG 358  Units: 1.5  Hours: 3-0
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):
•  GEOG 101A or GEOG 103; and
•  one of GEOG 226, STAT 255, STAT 260; and
•  one of BIOL 215, ES 240, ES 346; and
•  one of MATH 100, MATH 102, MATH 151, MATH 162.
Recommendations: GEOG 274 recommended prior to GEOG 358.

GEOG 356  Units: 1.5  Hours: 3-0
Formerly: 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. Includes lectures, seminars, and research projects.
Note: Credit will be granted for only one of GEOG 356, GEOG 473.
Prerequisite(s): GEOG 211 or GEOG 218.

GEOG 370  Units: 1.5  Hours: 3-2
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 will be discussed. Involves laboratory assignments and a field trip.
Prerequisite(s):
•  GEOG 272 or EOS 340; and
•  one of MATH 100, MATH 102, MATH 151, MATH 162.
Pre- or Corequisite(s): EOS 340.

GEOG 371  Units: 1.5  Hours: 3-0
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): GEOG 209 and GEOG 272.

GEOG 373  Units: 1.5  Hours: 2-2
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):
•  GEOG 272; and
•  one of MATH 100, MATH 102, MATH 151, MATH 162.

GEOG 376  Units: 1.5  Hours: 3-2
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 GEOG 276, or EOS 120 and EOS 201; and
•  one of MATH 100, MATH 102, MATH 151, MATH 162.

GEOG 378  Units: 1.5  Hours: 3-0
Formerly: 367, 467, 463A
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 GEOG 378, GEOG 367, GEOG 463A, GEOG 467.
Prerequisite(s): Minimum second-year standing.

GEOG 383  Units: 1.5  Hours: 3-0
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 GEOG 383, GEOG 364, GEOG 464A, PAAS 359, PACI 383.
Prerequisite(s): Either PAAS 100 and PAAS 200, or 4.5 units of 100- or 200-level GEOG courses.

GEOG 386  Units: 1.5  Hours: 3-0
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 GEOG 386, GEOG 438.
Prerequisite(s): Minimum second-year standing.

GEOG 388  Units: 1.5  Hours: 3-0
Formerly: 466
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:
•  May be taken more than once for credit in different topics with permission of the department.
•  Not open to students with credit in GEOG 466 without permission of the department.
Prerequisite(s): Minimum second-year standing.

GEOG 391  Units: 1.5  Hours: 3-0*
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 404</td>
<td>1.5</td>
<td>3-0</td>
<td>Space and Power</td>
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<tr>
<td>GEOG 422</td>
<td></td>
<td>2-3</td>
<td>Advanced Topics in Remote Sensing</td>
</tr>
<tr>
<td>GEOG 424</td>
<td>1.5</td>
<td>3-0</td>
<td>Field Studies in Coastal Geomorphology</td>
</tr>
<tr>
<td>GEOG 428</td>
<td>1.5</td>
<td>2-3</td>
<td>Advanced Topics in Geographic Information Sciences</td>
</tr>
<tr>
<td>GEOG 438</td>
<td>1.5</td>
<td>3-0</td>
<td>Aquaculture in British Columbia</td>
</tr>
<tr>
<td>GEOG 448</td>
<td>1.5</td>
<td>3-0</td>
<td>Urban Social Geographies</td>
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<tr>
<td>GEOG 450</td>
<td>1.5</td>
<td>3-0</td>
<td>Environment and Sustainability in Practice</td>
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<tr>
<td>GEOG 453</td>
<td>1.5</td>
<td>3-0</td>
<td>Field Studies in Coastal and Marine Resources</td>
</tr>
<tr>
<td>GEOG 456</td>
<td>1.5</td>
<td>3-0</td>
<td>Wildlife Conservation</td>
</tr>
<tr>
<td>GEOG 457</td>
<td>1.5</td>
<td>3-0</td>
<td>Marine Protected Areas</td>
</tr>
</tbody>
</table>

**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 GEOG 404, GEOG 491 (if taken in the same topic).

**Prerequisite(s):** One of GEOG 332, GEOG 344, GEOG 347B, GEOG 386.

**Sustainable Cities**
Explores the opportunities and challenges of planning ecologically, socially and environmentally just cities.

**Prerequisite(s):** One of GEOG 332, GEOG 340, GEOG 343.

**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 GEOG 332, GEOG 340, GEOG 343.

**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.

**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.

**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.

**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.

**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.

**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.

**Note:** Credit will be granted for only one of GEOG 456, GEOG 356.

**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.

**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.

**Recommended(s):** GEOG 252 and GEOG 304 recommended prior to GEOG 457.
GEOG 474 Units: 1.5 Hours: 3-0
Formerly: 471A
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
Formerly: part of 471C
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
Formerly: 471D
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 previous Winter Session.
Prerequisite(s):
• One of GEOG 358, GEOG 370, GEOG 373, GEOG 376; and
• permission of the department.

GEOG 478 Units: 1.5 Hours: 3-0
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 479 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*
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
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 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 4998, if 4998 is not completed, a grade equivalent to N will be assigned to 499A).

GEOG 499B Units: 1.5 Hours: 3-0
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 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 100 Units: 1.5 Hours: 3-0
Introduction to German Studies
A multi-media foundation course introducing students to the cultural symbols, spaces and events which have not only shaped German-speaking identity but also the discipline of Germanic Studies itself.
Note: No knowledge of German required.
A required course for the Major and Minor in Germanic Studies, and the Certificate in Language and Cultural Proficiency: German.

GMST 101 Units: 1.5 Hours: 3-0
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 100A, GER 100B.

GMST 102 Units: 1.5 Hours: 3-0
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 100B, GER 100A.
Prerequisite(s):
• GMST 101 or GER 100A, or
• permission of the department.

GMST 105 Units: 1.5 Hours: 3-0
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  
Myths, Fairy Tales and Fantasy Fiction  
An introductory survey of Germanic mythology, medieval heroic epics, Romantic and 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  
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  
Intermediate German II  
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 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  
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  
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  
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  
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  
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  
Formerly: GER 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  
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  
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 toward a Minor in Film Studies.  
• No knowledge of German required.

GMST 353  
Units: 1.5  
Hours: 3-0  
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  
Formerly: GER 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  
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 365  
Units: 1.5  
Hours: 3-0  
Marx, Nietzsche, Freud  
An introduction to three of the most significant German-speaking figures to shape the twentieth century in the realms of politics, philosophy and psychoanalysis, and how their thoughts influenced developments in art and literature.  
**Note:** No knowledge of German required.

GMST 369  
Units: 1.5  
Hours: 3-0  
Topics in Scandinavian Studies  
**Notes:**  
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.  
• No knowledge of Scandinavian languages required.

GMST 380  
Units: 1.5  
Hours: 3-0  
Heroism and Romance from the Middle Ages to Romanticism  
A survey of heroic narratives and tales with an emphasis on the link between the heroic and romance. Focus on the hero, the quest, love, gender and heroism and the prominence of anti-heroes in modern narratives. May include such texts as The Song of the Nibelungs, Parcival, Tristan, Kudrun, Wilhelm Meister, Hyperion.  
**Note:** No knowledge of German required.

GMST 382  
Units: 1.5  
Hours: 3-0  
Modern Crime Fiction  
An exploration of major works of modern and contemporary German, Austrian and Swiss crime fiction. Emphasis on crime and mystery novels as a critical commentary on society and politics.  
**Note:** No knowledge of German required.
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<tr>
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<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>GMST 401</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: GER 400; Topics in Popular Culture (in German); Explores popular cultural trends in German-speaking countries with emphasis on music, film, television and cultural traditions in their historical development and contemporary significance. All four language skills are developed and practiced so that students can effectively discuss and analyze the material in German. Notes: Credit will be granted for only one of GMST 401, GER 400 (if taken in the same topic); May be taken more than once for credit in different topics with permission of the department.</td>
</tr>
<tr>
<td>GMST 402</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: GER 452; Film (in German); Explores the cinematic representation of social, political and cultural issues and the social and cultural impact of film in a given historical context. All four language skills are developed and practiced so that students can effectively discuss and analyze the material in German. Notes: Credit will be granted for only one of GMST 402, GER 452 (if taken in the same topic); May be taken more than once for credit in different topics with permission of the department.</td>
</tr>
<tr>
<td>GMST 405</td>
<td>1.5</td>
<td>3-0</td>
<td>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 406, GMST 407 (if taken prior to May 2015), GMST 408, GMST 409 (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.</td>
</tr>
<tr>
<td>GMST 410</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: GERS 438A; Special Topics; Notes: Credit will be granted for only one of GMST 410, GERS 438A, GERS 438B (if taken in the same topic); May be taken more than once for credit in different topics with permission of the department.</td>
</tr>
<tr>
<td>GMST 450</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: GERS 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, GERS 437; 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.</td>
</tr>
<tr>
<td>GMST 452</td>
<td>1.5</td>
<td>3-0</td>
<td>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 ‘Nazi films’ and examines broader questions of how these productions represent the Holocaust in the contemporary imagination. Note: No knowledge of German required. May count towards a Minor in Film Studies.</td>
</tr>
<tr>
<td>GMST 453</td>
<td>1.5</td>
<td>3-0</td>
<td>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, GERS 435. No knowledge of German required.</td>
</tr>
<tr>
<td>GMST 454</td>
<td>1.5</td>
<td>3-0</td>
<td>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.</td>
</tr>
<tr>
<td>GMST 455</td>
<td>1.5</td>
<td>3-0</td>
<td>Kunst, Kino, Kultur; An investigation into the multiple visual cultures of twentieth-century Germany, including movements in art, architecture and film.</td>
</tr>
<tr>
<td>GMST 460</td>
<td>1.5</td>
<td>3-0</td>
<td>Multi-Cultural and Transnational Studies; An examination of contemporary German, Austrian and Swiss writers and filmmakers with a so-called ‘migratory background.’ Addresses current political debates on multiculturalism and citizenship laws. Note: No knowledge of German required.</td>
</tr>
<tr>
<td>GMST 461</td>
<td>1.5</td>
<td>3-0</td>
<td>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.</td>
</tr>
<tr>
<td>GMST 465</td>
<td>1.5</td>
<td>3-0</td>
<td>Adorno, Benjamin and Frankfurt School Critical Theory; Explores 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).</td>
</tr>
<tr>
<td>GMST 480</td>
<td>1.5</td>
<td>3-0</td>
<td>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.</td>
</tr>
<tr>
<td>GMST 481</td>
<td>1.5</td>
<td>3-0</td>
<td>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.</td>
</tr>
<tr>
<td>GMST 488</td>
<td>3.0</td>
<td>3-3</td>
<td>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 2015); May be taken more than once for credit in different topics with permission of the department.</td>
</tr>
<tr>
<td>GMST 489</td>
<td>3.0</td>
<td>6-0</td>
<td>I-witness Field School; Exploration and analysis of the ways in which the Holocaust has become memorialized in Central Europe, focusing on memorial sites, museums and monuments of the Holocaust. The course will begin at the University of Victoria and will require three weeks of study and travel in Central Europe. Notes: Credit will be granted for only one of GMST 489, GERS 435. No knowledge of German required. Prerequisite(s): Permission of the department.</td>
</tr>
</tbody>
</table>
GMST 490 - GNDR 300

**GMST 490 - GNDR 300**

**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 - GNDR 499**
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
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, sexuality, (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
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
Formerly: WS 205

**Gender, Food and Power**
Examines the intersections between gender, foodways (the practices associated with the production, distribution, preparation, and consumption of food) and power in globalized, North American food systems.

**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
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 GWDR 202, WS 206, WS 312.

**Recommendation(s):** GNDR 100 recommended prior to GNDR 202.

**GNDR 203**
Units: 1.5  Hours: 3-0
Formerly: WS 102, 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 204**
Units: 1.5  Hours: 3-0
Formerly: WS 209

**Gender, Health, Power and Resistance**
Explores gender and health from a feminist intersectional perspective, noting power and resistance. Addresses topics such as the sexual division of health care, the feminization and racialization of health inequalities, environmental racism and the identity politics of health movements.

**Note:** Credit will be granted for only one of GNDR 204, WS 209.

**Recommendation(s):** GNDR 100 recommended prior to GNDR 204.

**GNDR 205**
Units: 1.5  Hours: 3-0
Formerly: WS 211

**Girlhoods in Film and Popular Culture**
Examines changing social constructions of girls and girlhoods in the West as a reflection of tensions in dominant social norms, moral concerns and political economy. Explores debates in feminist girlhood studies about contemporary girlhood cultures and discourses.

**Note:** Credit will be granted for only one of GNDR 205, WS 211.

**Recommendation(s):** GNDR 100 recommended prior to GNDR 205.

**GNDR 206**
Units: 1.5  Hours: 3-0
Formerly: WS 212, WS 332A

**Monstrous Women**
Examines the ways in which Western culture has constructed particular women as monstrous throughout history. Emphasizes critical thinking and analysis regarding the effects of being produced as monstrous, and considers who profits from transforming particular women into monsters.

**Note:** Credit will be granted for only one of GNDR 206, WS 212, WS 332A.

**Recommendation(s):** GNDR 100 recommended prior to GNDR 206.

**GNDR 207**
Units: 1.5  Hours: 3-0
Formerly: WS 213, WS 313

**Gender, Globalization and the Love Industry**
The words ‘romantic’, ‘erotic’, ‘mythical’, ‘pleasurable’ and ‘indulgent’ are often used to describe our relationship with chocolate, diamonds and flowers. Examines the evolution of the romance industry through these highly symbolic commodities, the gendered and imperial relationship between consumers and producers, and the role of advertising in shaping desire.

**Note:** Credit will be granted for only one of GNDR 207, WS 213, WS 313.

**Recommendation(s):** GNDR 100 recommended prior to GNDR 207.

**GNDR 208**
Units: 1.5  Hours: 3-0

**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 women’s thought about Indigenous women’s lives is emphasized.

**Note:** Credit will be granted for only one of GNDR 208, GNDR 219 (if taken in Sep - Dec 2016).

**Recommendation(s):** GNDR 100 recommended prior to GNDR 208.

**GNDR 219**
Units: 1.5  Hours: 3-0
Formerly: WS 219

**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
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

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

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 303

Formerly: 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 303, WS 312A, WS 329 (if taken in the same topic).

Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 304

Formerly: WS 314

Imagining 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. Exploration begins in the late colonial period and ends in modern India.

Note: Credit will be granted for only one of GNDR 304, WS 314.

Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 305

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

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

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.

GNDR 308

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 positonalities, 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 319

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.

Note:
• 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

Formerly: WS 321A

Queer Desire

Explores Queer theory. Highlights the philosophical arguments, debates and shifting knowledge 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

Formerly: WS 323A

The Medicalization 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 322

Formerly: WS 324A

Girl Power and Feminisms

What is at stake in girl power? Examines girl power in film, music, video, the internet, fiction, spoken word poetry, magazines and everyday popular culture. Explores diverse girl cultures as a source for new feminisms and activism, girl power as resistance and regulation and the construction of girl subjectivities through girl power.

Note: Credit will be granted for only one of GNDR 322, WS 324A.

Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.
GNDR 323 Units: 1.5 Hours: 3-0
Formerly: WS 325
Women in Contemporary India
Looks at the unique cultural/social/historical issues defining the position of women in India. Such issues include competing notions of feminism, the shape and influence of the Indian women’s movement, the role of class and caste in women’s lives, and most recently, the impact of globalization. Cultural critique of the manner in which Indian women have been studied and represented in the West will form the context of our examination.
Note: Credit will be granted for only one of GNDR 323, WS 325.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 324 Units: 1.5 Hours: 3-0
Formerly: WS 326
Gender, Nation and War
Examines how the social construction of gender has influenced ideas of nation. Focuses on two main issues. One, the relations between culturally endorsed concepts of masculinity and femininity, nation, and female participation in nationalist politics. Two, the manner in which the link between gender and nation has, in certain contexts, supported war and warring.
Note: Credit will be granted for only one of GNDR 324, WS 326.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 325 Units: 1.5 Hours: 3-0
Formerly: WS 327A
North American Asian Feminist Thought and Action
Introduces emerging thought and practice in North American Asian Feminist Thought and Action from texts, cultural products and community engagement.
Note: Credit will be granted for only one of GNDR 325, WS 327A, 339 (if taken in the same topic).
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 329 Units: 1.5 Hours: 3-0
Formerly: WS 329
Topics in Power, Identities and Difference
Variable content course on aspects of power, identities and differences as they pertain to gendered lives.
Notes:
• Credit will be granted for only one of GNDR 329, WS 329 (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 330 Units: 1.5 Hours: 3-0
Formerly: WS 204, WS 331A
Feminist Thought, Past and Present
Introduces feminist theory. Highlights predominant historical and philosophical influences on and debates within Western feminism from the mid-20th century to the contemporary.
Note: Credit will be granted for only one of GNDR 330, WS 204, 331A.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 331 Units: 1.5 Hours: 3-0
Formerly: WS 333A
Queering the Undead
Introduces the concept of "queer” by exposing the similarities between Hollywood monsters and marginalized genders, sexes, and sexualities. Focuses on the term “queer” as both activist and theoretical, and the production of such “undead” characters as zombies, werewolves, ghosts and cyborgs as both constructive and problematic to queer concerns.
Note: Credit will be granted for only one of GNDR 331, WS 219 (if taken in the same topic), 333A.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 332 Units: 1.5 Hours: 3-0
Formerly: WS 334
What’s Race Got To Do With It?
An exploration of feminist and non-feminist theories of race, racism and racialization in relation to other sources of structured social inequality. Approaches will include political, economic, cultural and psychoanalytic theories.
Note: Credit will be granted for only one of GNDR 332, WS 334.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.
Recommendation(s): Recommended prior to GNDR 333.

GNDR 333 Units: 1.5 Hours: 3-0
Formerly: WS 331, WS 336
Anti-Racist Feminisms and Democratic Futures
Introduces students to emerging debates in the growing literature on anti-racist feminism. Examines key assumptions underlyig 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 reimagining 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.

GNDR 334 Units: 1.5 Hours: 3-0
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.

GNDR 335 Units: 1.5 Hours: 3-0
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, nationalisms 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.

GNDR 336 Units: 1.5 Hours: 3-0
Transgender Theory
Examines predominant debates within the discipline historically, then explores concepts and knowledge generated out of contemporary transgender theory.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

GNDR 339 Units: 1.5 Hours: 3-0
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.
**GNDR 340 - GNDR 499**

**GNDR 340  Units: 1.5  Hours: 3-0**
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: de-colonizing 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 340.

**Prerequisite(s):**
- Minimum second-year standing; or
- permission of the department.

**GNDR 341  Units: 1.5  Hours: 3-0**
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 oral tradition and the written tradition of Euro-American autobiography. Looks at a range of Indigenous women’s autobiographical texts created under a variety of circumstances, from life histories narrated by Indigenous women and ‘mediated’ by non-Native recorder-editors, 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.

**GNDR 342  Units: 1.5  Hours: 3-0**
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.

**GNDR 343  Units: 1.5  Hours: 3-0**
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.

**GNDR 344  Units: 1.5  Hours: 3-0**
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.

**GNDR 345  Units: 1.5  Hours: 3-0**
Formerly: WS 349

**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.

**Prerequisite(s):**
- Minimum second-year standing; or
- permission of the department.

**GNDR 349  Units: 1.5  Hours: 3-0**
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.

**GNDR 400A  Units: 1.5  Hours: 3-0**
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; and
- declared Honours or Major in Gender Studies; or
- permission of the department.

**GNDR 400B  Units: 1.5  Hours: 3-0**
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**
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 Pracitca".

**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.

**GNDR 480  Units: 1.5  Hours: 3-0**
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
- permission of the department.

**GNDR 490  Units: 1.5  Hours: 3-0**
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.

**GNDR 499  Units: 3.0  Hours: 3-0**
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.
### Greek Courses

**GREE 101 - Introductory Ancient Greek I**
- **Units:** 1.5
- **Hours:** 4-0
- **Description:** 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.
- **Prerequisite(s):** GREE 102; or GREE 200.
- **Note:** Credit will be granted for only one of GREE 101, GREE 201.

**GREE 200 - Advanced Greek Grammar**
- **Units:** 1.5
- **Hours:** 4-0
- **Description:** 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.
- **Prerequisite(s):** GREE 200.
- **Note:** Credit will be granted for only one of GREE 200, GREE 200.

**GREE 202 - Introduction to Greek Literature**
- **Units:** 1.5
- **Hours:** 4-0
- **Description:** 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.
- **Prerequisite(s):** GREE 201; or permission of the department.

**GREE 201 - Introductory Ancient Greek II**
- **Units:** 1.5
- **Hours:** 4-0
- **Description:** Continuation of 101. Reading and translation of progressively more challenging passages in ancient Greek, with emphasis on acquiring basic vocabulary and rules of grammar.
- **Prerequisite(s):** GREE 101.
- **Note:** Credit will be granted for only one of GREE 101, GREE 201.

**GREE 301 - Greek Epic**
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** Intensive reading of selections from the Iliad, the Odyssey and/or the hexameter corpus. Intended to facilitate reading ability in ancient Greek by building upon foundations of the first- and second-year courses.
- **Notes:** Credit will be granted for only one of GREE 301, GREE 302, GREE 401 (if taken in the same topic).
- **Prerequisite(s):** GREE 202; or permission of the department.

**GREE 302 - Greek Tragedy**
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** Reading and analysis of one or more plays of Aeschylus, Sophocles, and/or Euripides. Readings will typically include one play by each of two authors.
- **Notes:** Credit will be granted for only one of GREE 302, GREE 303, GREE 401 (if taken in the same topic).
- **Prerequisite(s):** GREE 202; or permission of the department.

**GREE 303 - Greek Historians**
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** Selected readings from the Greek historians, particularly Herodotus, Thucydides and Xenophon.
- **Notes:** Credit will be granted for only one of GREE 303, GREE 304, GREE 404 (if taken in the same topic).
- **Prerequisite(s):** GREE 202; or permission of the department.

**GREE 306 - Greek Comedy**
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** 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 307, GREE 407 (if taken in the same topic).
- **Prerequisite(s):** GREE 202; or permission of the department.

**GREE 401 - Seminar in Greek Literature**
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** Seminar in Greek Literature
- **Notes:** Credit will be granted for only one of GREE 400, GREE 401, GREE 402, GREE 403, GREE 404, GREE 405, GREE 406, GREE 407, GREE 408, GREE 409 (if taken in the same topic), GREE 401, GREE 402, GREE 481 (if taken in the same topic).
- **Prerequisite(s):** GREE 202; or permission of the department.

**GREE 404 - Reading and Grammatical Analysis of Plato**
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** Reading and grammatical and literary analysis of one or more dialogues or other texts of Plato.
- **Notes:** Credit will be granted for only one of GREE 404, GREE 405 (if taken in the same topic).
- **Prerequisite(s):** GREE 202; or permission of the department.
Greek and Roman Studies

Department of Greek and Roman Studies

Faculty of Humanities

Greek and Roman Studies courses are designed to provide students with access to a broad range of topics dealing with ancient Greek and Roman culture at all levels. A knowledge of the Greek and Latin languages is not required for GRS courses, but interested students are strongly encouraged to begin Latin and Greek language courses as early as possible. GRS 100, 101 and 102 are designed primarily as foundational courses and are highly recommended for students in all fields of study. For courses in the Greek and Latin languages, see courses listed under (GREE and LAT).

GRS 100  Units: 3.0  Hours: 3-0 or 2-0-1
Greek and Roman Civilization
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  Units: 1.5  Hours: 3-0 or 2-0-1
Greek Culture
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  Units: 1.5  Hours: 3-0 or 2-0-1
Roman Culture
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.

GRS 200  Units: 1.5  Hours: 3-0 or 2-0-1
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.

GRS 203  Units: 1.5  Hours: 3-0
Formerly: 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  Units: 1.5  Hours: 3-0
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  Units: 1.5  Hours: 3-0
Greek and Latin Roots of English in Science and Social Sciences
Exploration of the principles of derivation of English words from Latin and Greek sources. Focus on areas of study with terminology particularly indebted to the classical languages, such as biology, psychology, law and medicine.

Notes:
• Credit will be granted for only one of GRS 250, CLAS 250.
• Assumes knowledge of Greek and Latin.

GRS 300  Units: 1.5  Hours: 3-0
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.

GRS 314  Units: 1.5  Hours: 3-0
Age of Nero
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.

Note: Credit will be granted for only one of GRS 314, GRS 325 (if taken in the same topic).

Prerequisite(s):
• One of GRS 100, GRS 102, GRS 202, GRS 341; or
• permission of the department.

GRS 315  Units: 1.5  Hours: 3-0
Age of Augustus
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.

Recommendation(s): One of GRS 100, GRS 102, GRS 202 recommended prior to GRS 315.

GRS 316  Units: 1.5  Hours: 3-0
Pirates and Passion in Greek and Roman Novels and Romances
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.

Prerequisite(s):
• One of GRS 100, GRS 101, GRS 102; or
• permission of the department.

GRS 320  Units: 1.5  Hours: 3-0
Greek Tragedy
Origins and developments of tragic drama in ancient Greece. Representative plays of Aeschylus, Sophocles and Euripides.

Note: Credit will be granted for only one of GRS 320, CLAS 320.

Recommendation(s): One of GRS 100, GRS 101, GRS 200, GRS 201, GRS 331 recommended prior to GRS 320.

GRS 323  Units: 1.5  Hours: 3-0
Ancient Comedy and Satire
The origins and development of comedy, satire and invective in ancient Greece and Rome.

Note: Credit will be granted for only one of GRS 323, GRS 322, GRS 343.

Recommendation(s): One of GRS 100, GRS 101, GRS 102, GRS 201, GRS 202, GRS 331, GRS 341 recommended prior to GRS 323.

GRS 325A  Units: 1.5  Hours: 3-0
Formerly part of 325
Topics in Greek Literature
Notes:
• Credit will be granted for only one of GRS 325A, GRS 325, CLAS 325.
• May be taken more than once for credit in different topics with permission of the department.

GRS 325B  Units: 1.5  Hours: 3-0
Formerly part of 325
Topics in Roman Literature
Notes:
• Credit will be granted for only one of GRS 325B, GRS 325, CLAS 325.
• May be taken more than once for credit in different topics with permission of the department.
GRS 326A  Units: 1.5  Hours: 3-0
Formerly: part of 326
Topics in Greek Civilization
Notes:
- Credit will be granted for only one of GRS 326A, GRS 326, CLAS 326.
- May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

GRS 326B  Units: 1.5  Hours: 3-0
Formerly: part of 326
Topics in Roman Civilization
Notes:
- Credit will be granted for only one of GRS 326B, GRS 326, CLAS 326.
- May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

GRS 328  Units: 1.5  Hours: 3-0
Myth and Theory
An introduction to the major approaches to the interpretation of classical myth, from ritualist to structuralist to feminist and beyond.
Recommendation(s): GRS 200 recommended prior to GRS 328.

GRS 331  Units: 1.5  Hours: 3-0
Formerly: 201
Greek History from the Bronze Age to Alexander
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.
Note: Credit will be granted for only one of GRS 331, GRS 201, CLAS 330.
Recommendation(s): GRS 100 or GRS 101 recommended prior to GRS 331.

GRS 332  Units: 1.5  Hours: 3-0
Social and Economic History of Greece
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.
Note: Credit will be granted for only one of GRS 332, CLAS 330.
Recommendation(s): One of GRS 100, GRS 101, GRS 201, GRS 331 recommended prior to GRS 332.

GRS 333  Units: 1.5  Hours: 3-0
Alexander and the Hellenistic Age
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.
Recommendation(s): One of GRS 100, GRS 101, GRS 201, GRS 331, GRS 332 recommended prior to GRS 333.

GRS 335  Units: 1.5  Hours: 3-0
Women in the Greek and Roman World
Examines textual and visual representations of women in Greco-Roman antiquity. Investigates the Greek and Roman sex-gender systems, with special attention to constructs of femininity. Topics include women and religion, women and medicine, the legal position of women, women and politics, the economic role and position of women, marriage and childbearing practices.
Note: Credit will be granted for only one of GRS 335, CLAS 335.

GRS 336  Units: 1.5  Hours: 3-0
Democracy in the Ancient Mediterranean and its Legacy
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.
Note: Credit will be granted for only one of GRS 336, GRS 334
Recommendation(s): One of GRS 100, GRS 101, GRS 201, GRS 331, GRS 332 recommended prior to GRS 336.

GRS 337  Units: 1.5  Hours: 3-0
Herodotus and Greek Ethnography
Examines the relationship of the Greeks to other Mediterranean and Near Eastern cultures in the Classical and Hellenistic periods, such as the Mesopotamians, Lydians, Persians, Egyptians, Scythians, Carthaginians, Etruscans and Celts. Focus on the ethnographic accounts of these civilizations by Greek writers, particularly Herodotus and Poseidonius of Apamea, as well as archaeological, epigraphic and literary evidence from the cultures themselves.
Recommendation(s): One of GRS 100, GRS 101, GRS 201, GRS 331, GRS 332 recommended prior to GRS 337.

GRS 341  Units: 1.5  Hours: 3-0
Formerly: 202
Roman History
Survey of Roman history from the earliest settlements on the banks of the Tiber at the end of second millennium BCE to the reign of the emperor Justinian in the sixth century CE. Emphasis on historical geography, Rome’s changing political culture and the primary sources for Roman history (literary, material and documentary).
Note: Credit will be granted for only one of GRS 341, GRS 202, CLAS 340.
Recommendation(s): One of GRS 100, GRS 102, GRS 342 recommended prior to GRS 341.

GRS 342  Units: 1.5  Hours: 3-0
Roman Society
Topical introduction to Roman social and cultural history. Focus on Roman social relations and the defining features of Roman culture.
Note: Credit will be granted for only one of GRS 342, CLAS 340.
Recommendation(s): One of GRS 100, GRS 102, GRS 202, GRS 341 recommended prior to GRS 342.

GRS 344  Units: 1.5  Hours: 3-0
Formerly: 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 14 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
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
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
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 361  Units: 1.5  Hours: 3-0
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.
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<th>Course</th>
<th>Units</th>
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| GRS 371   | 1.5   | 3-0   | 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   | 1.5   | 3-0   | 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 relief, 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   | 1.5   | 3-0   | 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 376   | 1.5   | 3-0   | 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 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   | 1.5   | 3-0   | 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   | 1.5   | 3-0   | 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 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   | 1.5   | 3-0   | 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   | 1.5   | 3-0   | 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   | 3.0   | 3-0   | 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   | 1.5   | 3-0   | 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 442   | 1.5   | 3-0   | Roman Law and Society  
Introduction to Roman law through primary sources. Focus varies from year to year, and may include private law in its social context, advocacy and judicial procedure and administrative law, and Roman jurisprudence in its intellectual context.  
Note: Credit will be granted for only one of GRS 442, GRS 346, CLAS 346.  
Prerequisite(s):  
• One of GRS 202, GRS 341, GRS 342, GRS 344, GRS 350, and minimum third-year standing; or  
• permission of the department. |
| GRS 443   | 1.5   | 3-0   | 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 Pentekontaeta, the social, economic, and cultural importance of Athenian democracy, the Periclean 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   | 1.5   | 3-0   | 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   | 1.5   | 3-0   | 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 - 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 201 or GRS 331; and
- minimum third-year standing; or
- permission of department.

GRS 480C - 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 202, GRS 341, GRS 342, GRS 344, GRS 349, GRS 350; and
- minimum third-year standing; or
- permission of the department.

GRS 482A - Seminar in Greek Archaeology

Formerly: GRS 480B

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 - Seminar in Roman Archaeology

Formerly: GRS 480D

Notes:
- Credit will be granted for only one of GRS 482B, GRS 480D, 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 489 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.

Notes:
- May be taken more than once for credit in different topics with permission of the program.
- Students must have the permission of a faculty supervisor before being allowed to register in the course.

Prerequisite(s):
- Permission of the program.

HDCC 300 Climate Change for Social Transformation

An opportunity for critical engagement with climate change as physical transformation, cultural object, and incitement to social transformation. This interdisciplinary course approaches climate change as complex phenomena that are co-constituted by social and natural worlds. The course will introduce students to a variety of lenses, knowledge networks, culturally constructed narratives and social justice issues that will help them understand why responding to climate change is challenging but also opens up opportunities for change.

Prerequisite(s):
- Minimum third-year standing; or
- permission of the program.

HINF 115 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 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
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
Formerly: 240
Introduction to the Canadian Health Care Systems
Provides a comprehensive and critical understanding of the Canadian healthcare system, its development and its 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 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
Formerly: 300
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 210  Units: 1.5  Hours: 0-3
Formerly: 301
Database Management and Development for Health Care Systems
Provides students with hands-on lab experience with SQL and a sophisticated, fullscale 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):
• One of HINF 200, HINF 300, CSC 370; or
• permission of the school.

HINF 230  Units: 1.5  Hours: 3-0
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
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
Formerly: 180
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, PE 141.

HINF 310  Units: 1.5  Hours: 3-2
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), 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.

HINF 320  Units: 1.5  Hours: 3-2
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.

HINF 330  Units: 1.5  Hours: 3-0
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 will 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 467.

HINF 335  Units: 1.5  Hours: 3-0
Health Information Standards
A study of health information standards being deployed and used in Canada and elsewhere. The standards to be 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.

HINF 345  Units: 1.5  Hours: 3-2
Formerly: 445
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.

HINF 350  Units: 1.5  Hours: 3-0
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.
Clinical Methodologies

The process of clinical decision making in diagnosis, treatment, planning and prognosis is 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 377, HINF 381.

Prerequisite(s): HINF 280.

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): HINF 200 and CSC 375.

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 480.

Prerequisite(s): HINF 381.

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 115 or CSC 115.

Directed Study

Students wishing to pursue a course of directed readings or 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.

Units:

HINF 351 - HLTH 301

HINF 371 - HLTH 301

HINF 381 - HLTH 301

HINF 410 - HLTH 301

HINF 420 - HLTH 301

HINF 440 - HLTH 301

HINF 490 - HLTH 301

HINF 491 - HLTH 301

HINF 491 - HLTH 301
HLTH 320 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 321 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 350 Units: 1.5
Introduction to Health 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 351 Units: 1.5
Practice of Evaluation Research
This applied course explores the use of evaluation research within health contexts and settings. Evaluation as a systematic approach to assess effectiveness of health care and health care strategies will be examined. Students will acquire skills in the effective utilization of existing health evaluation research as well as in the basic design of evaluation frameworks.

HLTH 352 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 appropriate models of Indigenous health and 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 360 Units: 1.5
Health Literacy and System Navigation
Health literacy, the capacity to understand and use health related knowledge, has implications for people’s ability to make healthy decisions and play an active role in managing their own health. This course examines ways to improve literacy and communication to enhance self-care including e-health literacy and the increasing use of the internet in access to health information. The importance of health system navigation in the integration of primary and community care will be explored.

Note: Credit will be granted for only one of HLTH 360, HLTH 322.

HLTH 401 Units: 1.5
Health Policy and Health Governance
Reviews historical and contemporary health policy as a context for understanding current health governance practices. The role of legislation, governance and regulation as essential strategies to ensure the health of the population will be explicated. The intersections of policy; health law and ethics will be explored.

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. Explores culturally appropriate models of Indigenous health and community work.

Note: Credit will be granted for only one of HLTH 406, INGH 450, INGH 451, INTS 461.

HLTH 425 Units: 1.5
Quantitative and Qualitative Methods
Explores applied methods and strategies commonly used in quantitative and qualitative analysis. A range of descriptive and inferential statistical approaches are examined using computer-based technology. Qualitative methods of analysis are examined including data coding and thematic analysis.

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 will usually be completed at the end of the student’s program of study.

Note: 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.

Grading: INP, COM, F or N.

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.

Note: 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, N.

HLTH 480 Units: 1.5
Special Topics in Health Studies
This is a variable content course focusing on specific interests of students and faculty members in the School of Public Health and Social Policy.

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

HLTH 490 Units: 1.5
Directed Readings in Health Studies
Comprises 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 Director before students are allowed to register.

Note: May be taken more than once for credit in different topics with permission of the school to a maximum of 4.5 units.
Health and Society

Interdisciplinary Programs

**HS 200**
**Units:** 1.5  
**Hours:** 3-0

**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 400**
**Units:** 1.5  
**Hours:** 3-0

**Policy in the Human Services**
The objectives of this course are to provide an introduction to the main organizational structures of, and stages in, the social policy making process in Canada; to strengthen skills in the analysis of policies and programs in Canadian human services; to critically examine different ideologies and theories through which the welfare state has been examined in various countries, and to develop an appreciation of the interdisciplinary nature of social policy as a field of academic and applied activity.

**Women in the Human Services**
An opportunity to reflect critically on the experiences of women in their various connections to the human services: as recipients, providers, advocates and policymakers. Explores the social, economic and political influences which have shaped these experiences for diverse groups of women. Attention is given to the gendered aspects of programs and policies in the human services, and to the interconnections between the private and public dimensions of women's lives.

**Qualitative and Quantitative Analysis**
Provides students with a grounding in the techniques commonly used in the analysis of both quantitative and qualitative data. Students will engage in the process of qualitative analysis through examining qualitative data, data coding and thematic construction. A range of descriptive and inferential statistical approaches to quantitative analysis are examined using a computer-based system.

**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.

**Introduction to Disability Studies**
A mandatory course for students enrolled in the Child Welfare Specialization and focuses on issues affecting people with disabilities. Current issues in human rights, ethics, and attitudes about disability are examined within a framework of human rights, citizenship and inclusion. Highlights the skills and knowledge required for anti-ableist practice and includes a critical analysis of theory, policy and practice. Various approaches to the planning and delivery of services are examined with an emphasis on those approaches that facilitate consumer choice and decision-making.

**Notes:**
- Credit will be granted for only one of HSD 464, CYC 364, SOCW 469.
- Course is not currently offered.

**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 101A - HSTR 131

HSTR 101A  Units: 1.5  Hours: 3-0
10 Days that Shook the World
Introduces the field of history through the exploration of ten turning points in world history. Each week a guest lecturer focuses on a world-changing moment and then seminars examine the arguments and evidence. Introduces the discipline of History, a range of historical concepts and skills and many of the History Department faculty.
Note: Credit will be granted for only one of HSTR 101A, HSTR 101B, HSTR 101C, HSTR 101D, HIST 101, HIST 198.

HSTR 101B  Units: 1.5  Hours: 3-0
The History of Leisure, Sport and Tourism in North America
Examines the social and cultural history of recreation, sport and tourism in North America, considering how developments in technology, religion, capitalism and family life have shaped the relationship of men, women and children to the “Great Outdoors.”
Note: Credit will be granted for only one of HSTR 101B, HSTR 101A, HSTR 101C, HSTR 101D, HIST 101, HIST 198.

HSTR 101C  Units: 1.5  Hours: 3-0
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 101A, HSTR 101B, HSTR 101D, HSTR 355, HIST 101, HIST 264.

HSTR 101D  Units: 1.5  Hours: 3-0
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.
Note: Credit will be granted for only one of HSTR 101D, HSTR 101A, HSTR 101B, HSTR 101C, HIST 101.

HSTR 109  Units: 1.5  Hours: 3-0
Global Society since 1400
An overview of major processes and events in various parts of the world since the late middle ages and the 15th century European maritime expansions. 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, economic development and upheaval, ecological challenges, innovations in science and technology and imperialism and resistance.
Note: Credit will be granted for only one of HSTR 109, HIST 101 (if taken in the same topic).

HSTR 110  Units: 1.5  Hours: 3-0
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 American 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
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
Formerly: HIST 105, 242
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
Formerly: HIST 105A, part of 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.

HSTR 112B  Units: 1.5  Hours: 3-0
Formerly: HIST 105B, part of 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  Units: 1.5  Hours: 3-0
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 120  Units: 1.5  Hours: 3-0
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 121  Units: 1.5  Hours: 3-0
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 130  Units: 1.5  Hours: 3-0
Formerly: HIST 260
Revolutionary Discoveries in Modern Science
Surveys pivotal episodes in the history of the physical and life sciences from Galileo’s telescopic observations to the search for the “god particle”. Topics include the construction of a radically new view of the natural order during the Scientific Revolution, the transformation of our understanding of the nature of life since the 18th century, and the overthrow of Newton’s system of the world in the early 20th century.

Notes:
• Credit will be granted for only one of HSTR 130, HIST 260.
• No background in science is required prior to taking this course.

HSTR 131  Units: 1.5  Hours: 3-0
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 132 - Units: 1.5 - Hours: 3-0
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, HSTR 355, HIST 263, HIST 264, HIST 265 (if taken in the same topic).

### HSTR 200 - Units: 1.5 - Hours: 3-0
Formerly: HIST 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 - Units: 1.5 - Hours: 3-0
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 - Units: 1.5 - Hours: 3-0
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 - Units: 1.5 - Hours: 3-0
Formerly: HIST 120A, part of 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 - Units: 1.5 - Hours: 3-0
Formerly: HIST 120B, part of 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 - Units: 1.5 - Hours: 3-0
Formerly: HIST 131, 231
**Canada to Confederation**
Introduces the history of Canada’s peoples from the Ice Age to the era of Queen Victoria. Topics 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 - Units: 1.5 - Hours: 3-0
Formerly: HIST 132, 232
**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
Formerly: HIST 236
**Medieval Europe**
The twelve centuries of the Middle Age in Europe, from Late Antiquity through the achievements of the Carolingian world and the development of feudal institutions, to the breakdown of the medieval world view.

**Note:** Credit will be granted for only one of HSTR 236, HIST 236, HIST 236A, HIST 236B.

**Recommendation(s):** Recommended for students wishing to take advanced courses in Medieval history.

### HSTR 236A - Units: 1.5 - Hours: 3-0
**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, HIST 236, HIST 236B.

**Recommendation(s):** Recommended for students wishing to take advanced courses in Medieval history.

### HSTR 236B - Units: 1.5 - Hours: 3-0
**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, HIST 236, HIST 236.

**Recommendation(s):** Recommended for students wishing to take advanced courses in Medieval history.

### HSTR 240 - Units: 3.0 - Hours: 3-0
Formerly: HIST 140, 240
**Europe, Renaissance to the European Union**
Survey of European history from the Renaissance to the present. Lectures will focus on political, intellectual, cultural and social aspects of European society and the modern state as it emerges in the contemporary world.

**Note:** Credit will be granted for only one of HSTR 240, HIST 140, HIST 140A, HIST 140B, HIST 240.

**Recommendation(s):** HSTR 240, or 240A and HIST 240B recommended for students wishing to take advanced courses in European History.

### HSTR 240A - Units: 1.5 - Hours: 3-0
Formerly: HIST 140A, part of 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 140B, HIST 240.

**Recommendation(s):** HSTR 240, or 240A and HIST 240B recommended for students wishing to take advanced courses in European History.

### HSTR 240B - Units: 1.5 - Hours: 3-0
Formerly: HIST 140B, part of 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 140A, HIST 140B, HIST 240.

**Recommendation(s):** HSTR 240, or 240A and HIST 240B recommended for students wishing to take advanced courses in European History.

### HSTR 265A - Units: 1.5 - Hours: 3-0
Formerly: HIST 253, half of 252
**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
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
Formerly: HIST 255, half of 252
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 255, PACI 255.

HSTR 267B - Units: 1.5 - Hours: 3-0
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 267A, HIST 256, PACI 256.

HSTR 275 - Units: 1.5 - Hours: 3-0
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
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, anti-slavery, 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 Perón.
Note: Credit will be granted for only one of HSTR 276, HIST 265 (if taken in the same topic), HIST 271.

HSTR 277A - Units: 1.5 - Hours: 3-0
Formerly: part of 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, HIST 277, HIST 265 (if taken in the same topic).

HSTR 277B - Units: 1.5 - Hours: 3-0
Formerly: part of 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, HIST 277, HIST 265 (if taken in the same topic).

HSTR 300 - Units: 1.5 - Hours: 3-0
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.

HSTR 300A - Units: 1.5 - Hours: 3-0
The Backpacker’s Guide to European History
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.
Notes:
• Credit will be granted for only one of HSTR 300A, HIST 300A (if taken as section A01 in Sep-Dec 2013).
• May not be counted toward upper-level requirements in Honours, Major, or General and Minor Programs in History.
Recommended to students in all Faculties.

HSTR 301 - Units: 1.5 - Hours: 3-0
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 - Units: 1.5 - Hours: 3-0
Formerly: HIST 301A, part of 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 - Units: 1.5 - Hours: 3-0
Formerly: HIST 301B, part of 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 - Units: 1.5 - Hours: 3-0
Formerly: HIST 304A, part of 304
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  Units: 1.5  Hours: 3-0
Formerly: HIST 304B, part of 304
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  Units: 1.5  Hours: 3-0
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 305A  Units: 1.5  Hours: 3-0
Formerly: HIST 302A
American Women to 1900
Introduction to the history of women in early America, covering indigenous women, free settlers and slaves. Themes include women’s roles in conquest, patterns of women’s work, women in American politics and the history of sexuality. Examines how the category of gender has intersected with structures of power in American history including race and class.
Note: Credit will be granted for only one of HSTR 305A, HIST 302A, HIST 318 (if taken in the same topic).

HSTR 305B  Units: 1.5  Hours: 3-0
Formerly: HIST 302B
American Women 1900 - Present
Introduction to the history of modern American women. Themes include women and popular culture, race and femininity, women’s work, the women’s rights movement and the sexual revolution. Examines the role of gender as a primary axis of power in modern American history.
Note: Credit will be granted for only one of HSTR 305B, HIST 302B, HIST 318 (if taken in the same topic).

HSTR 306  Units: 1.5  Hours: 3-0
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  Units: 1.5  Hours: 3-0
Formerly: HIST 315A, part of 315
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  Units: 1.5  Hours: 3-0
Formerly: HIST 315B, part of 315
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  Units: 1.5  Hours: 3-0
Formerly: HIST 316
The United States and Vietnam
Note: Credit will be granted for only one of HSTR 308, HIST 316, HIST 318 (if taken in the same topic).

HSTR 309  Units: 1.5  Hours: 3-0
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).

HSTR 310  Units: 1.5  Hours: 3-0
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.

HSTR 310A  Units: 1.5  Hours: 3-0
African-American History
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.
Note: Credit will be granted for only one of HSTR 310A, HIST 318 (if taken in the same topic).

HSTR 310B  Units: 1.5  Hours: 3-0
US-Soviet Relations in the Cold War Era
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.
Note: Credit will be granted for only one of HSTR 310B, HIST 318 (if taken in the same topic).

HSTR 310C  Units: 1.5  Hours: 3-0
American History in Film
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).
Note: Credit will be granted for only one of HSTR 310C, HIST 318 (if taken in the same topic).

HSTR 310D  Units: 1.5  Hours: 3-0
Formerly: HIST 310
The American West
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.
Note: Credit will be granted for only one of HSTR 310D, HIST 310.

HSTR 312  Units: 1.5  Hours: 3-0
Formerly: HIST 321
Tudor-Stuart England
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.
Note: Credit will be granted for only one of HSTR 312, HIST 321.

HSTR 313A  Units: 1.5  Hours: 3-0
Formerly: HIST 324A, part of 324
Britain’s Rise to World Power, 1689-1837
Political culture in Britain during the era in which it rose to global ascendancy. 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 “Great War” with France (1793-1815), and the "age of reform" that preceded the accession of Queen Victoria.
Note: Credit will be granted for only one of HSTR 313A, HIST 322, HIST 323, HIST 324, HIST 324A.
Recommendation(s): HSTR 220 recommended prior to HSTR 313A.

HSTR 313B  Units: 1.5  Hours: 3-0
Formerly: HIST 324B, part of 324
English Society, 1689-1837
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 roles of women and children; the impact of the French and Industrial Revolutions amongst working people; the emergence of the “Victorian” world.
Note: Credit will be granted for only one of HSTR 313B, HIST 322, HIST 323, HIST 324, HIST 324B.
Recommendation(s): HSTR 220 and HSTR 313A recommended prior to HSTR 313B.
HSTR 314A  
Units: 1.5  
Hours: 3-0  
Formerly: part of HIST 325  
Britain from Iron Bridge to Crystal Palace, 1789-1851  
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.  
Note: Credit will be granted for only one of HSTR 314A, HIST 325.

HSTR 314B  
Units: 1.5  
Hours: 3-0  
Formerly: part of HIST 325  
Britain from the ‘Age of Equipoise’ to World War, 1851-1914  
British history from the mid-Victorian through the Edwardian eras. 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.  
Note: Credit will be granted for only one of HSTR 314B, HIST 325.

HSTR 315A  
Units: 1.5  
Hours: 3-0  
Formerly: HIST 327A, part of 327  
Britain’s Short Twentieth Century 1901-1951  
Major themes in British history focusing on the social, cultural, political and economic consequences of Britain’s involvement in two world wars.  
Note: Credit will be granted for only one of HSTR 315A, HIST 327, HIST 327A, HIST 339 (if taken in the same topic).  
Recommendation(s): HSTR 220 recommended prior to HSTR 315A.

HSTR 315B  
Units: 1.5  
Hours: 3-0  
Formerly: HIST 327B, part of 327  
Modern Britain 1951-present  
Major developments in British history focusing on the debate over the “decline” of Britain, the rise and fall of the welfare state, the devolution of Empire and the emergence of a culturally and ethnically diverse society.  
Note: Credit will be granted for only one of HSTR 315B, HIST 327, HIST 327B, HIST 339 (if taken in the same topic).  
Recommendation(s): HSTR 220 recommended prior to HSTR 315B.

HSTR 316A  
Units: 1.5  
Hours: 3-0  
Formerly: HIST 328A, part of 328  
Death and the Afterlife in England, 1200-1750  
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 “Bloody Mary” and Elizabeth I; murder, attitudes toward providence and the supernatural; crime and public execution in 17th- and 18th-century London; the rise of “rational religion” and the “secularization of suicide”.  
Note: Credit will be granted for only one of HSTR 316A, HIST 328, HIST 328A.  
Recommendation(s): HSTR 220 or HSTR 312 recommended prior to HSTR 316A.

HSTR 316B  
Units: 1.5  
Hours: 3-0  
Formerly: HIST 328B, part of 328  
Death and the Afterlife in England, 1750 to the Present  
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; spirituality, the First World War and the role of modern media in shaping responses to the death of celebrities.  
Note: Credit will be granted for only one of HSTR 316B, HIST 328, HIST 328B.  
Recommendation(s): HSTR 220 or HSTR 312 recommended prior to HSTR 316B.

HSTR 318  
Units: 1.5  
Hours: 3-0  
Formerly: HIST 330  
The Bloody Code: Crime in England, 1660-1800  
Crime, society and the administration of criminal justice in early modern England. Themes include the political and social backdrop to the “Bloody Code” 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.  
Note: Credit will be granted for only one of HSTR 318, HIST 330, HIST 339 (if taken as section F01 of Sep-Dec 2005).

HSTR 320  
Units: 1.5  
Hours: 3-0  
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.  
Recommendation(s): HSTR 220 recommended prior to HSTR 320.

HSTR 320A  
Units: 1.5  
Hours: 3-0  
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  
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  
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 320D  
Units: 1.5  
Hours: 3-0  
Scottish History in Film, 1314 - present  
Examination of cinematic representations of Scotland’s past. Topics and themes include: the cultural legacy of Sir Walter Scott; Jekyll and Hyde and the Calvinist psyche; visions of the Highlands; the romance of Jacobitism; social conflict in 20th and 21st century Scotland; the rebirth of Scottish nationalism since 1950; Hollywood tartanism.

HSTR 320E  
Units: 1.5  
Hours: 3-0  
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 339 (if taken in Jan-Apr 2015), HIST 339 (if taken in Jan-Apr 2008).

HSTR 322A  
Units: 1.5  
Hours: 3-0  
Formerly: HIST 344A, part of 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  
Formerly: HIST 344B, part of 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  
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
Formerly: HIST 354A
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 354A.

HSTR 324B Units: 1.5 Hours: 3-0
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.
Recommendation(s): HSTR 230A and HIST 230B, or HSTR 324A recommended prior to HSTR 324B.

HSTR 324C Units: 1.5 Hours: 3-0
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
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 354 (if taken in the same topic).

HSTR 327A Units: 1.5 Hours: 3-0
Formerly: part of HIST 358A
Gender and Sexuality in Canada to 1920
Examines the development of gender and sexuality in Canada from prehistory to 1920. Examines 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 358 (if taken in the same topic), HIST 358A.

HSTR 327B Units: 1.5 Hours: 3-0
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 358 (if taken in the same topic), HIST 358A.

HSTR 328 Units: 1.5 Hours: 3-0
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 358 (if taken in the same topic), HIST 358C, HIST 358F, HIST 359 (if taken in the same topic).

HSTR 329A Units: 1.5 Hours: 3-0
Formerly: HIST 358D
Race, Racism and Ethnicity in Canada to 1900
Explores the development of racial discourses from the colonial settings of New France and the British Empire in Northern North 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-Indigenous immigrants from Europe and Asia.
Note: Credit will be granted for only one of HSTR 329A, HIST 358 (if taken in the same topic), HIST 358C, HIST 358F, HIST 359 (if taken in the same topic).

HSTR 329B Units: 1.5 Hours: 3-0
Formerly: HIST 358G
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 and the experience of various groups in a range of social, economic, cultural and political contexts.
Note: Credit will be granted for only one of HSTR 329B, HIST 358 (if taken in the same topic), HIST 358C, HIST 358F, HIST 359 (if taken in the same topic).

HSTR 330 Units: 1.5 Hours: 3-0
Topics in Canadian History
Notes:
• Credit will be granted for only one of HSTR 330, HIST 358 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

HSTR 330B Units: 1.5 Hours: 3-0
Tragedy and Transformation in Colonial North America, 1500-1800
Examines Canada’s place in the broader history of Europe’s colonization of mainland North America and the Caribbean. Topics include European exploration, the formation of colonial societies, the response of Indigenous peoples to colonization, imperial rivalries, the transatlantic slave trade and the Americas as part of a broader “Atlantic world.” Compares the legacies of colonialism in Canada, the United States and Mexico.
Note: Credit will be granted for only one of HSTR 330B, HIST 358 (if taken in the same topic).

HSTR 330C Units: 1.5 Hours: 3-0
Indigenous-Settler Treaties in Canada since 1600
Examines 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.
Note: Credit will be granted for only one of HSTR 330C, HIST 358 (if taken as section A01 in Jan-Apr 2014).

HSTR 330D Units: 1.5 Hours: 3-0
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.
Note: Credit will be granted for only one of HSTR 330D, HIST 358 (if taken in the same topic).

HSTR 336A Units: 1.5 or 3.0 Hours: 3-0
Formerly: HIST 380, 380A
Topics in Medieval Europe
Notes:
• Credit will be granted for only one of HSTR 336A, HIST 380 (if taken in the same topic), HIST 380A (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 336A.

HSTR 336T Units: 1.5 Hours: 3-0
Formerly: HIST 380T
The Created 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.
Note: Credit will be granted for only one of HSTR 336T, HIST 380A (if taken as section A01 in Jan-Apr 2013), HIST 380T.
HSTR 337A - HSTR 347A

HSTR 337A  Units: 1.5  Hours: 3-0
Formerly: HIST 360
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.
Note: Credit will be granted for only one of HSTR 337A, HIST 360.

HSTR 337B  Units: 1.5  Hours: 3-0
Formerly: HIST 361
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 HSTR 337B, HIST 361.

HSTR 338  Units: 1.5  Hours: 3-0
Formerly: HIST 382B, part of 382
European Culture in Crisis, 1580 - 1696
Examines European responses to the intellectual challenges posed by the cultural legacies of ancient Greece and Rome, global encounters with other peoples, the growing rivalries between European states, political upheaval in England and elsewhere, the rise of the 'new science' and the fragmentation of religious belief.
Note: Credit will be granted for only one of HSTR 338, HIST 382, HIST 382B.
Recommendation(s): HSTR 130 recommended prior to HSTR 338.

HSTR 339A  Units: 1.5  Hours: 3-0
Formerly: HIST 383C
Topics in Enlightenment Thought and Culture
Topics may include: the moral, religious and philosophical debates sparked by the rise of commercial capitalism; Enlightenment responses to religion; the social history of Enlightenment; Enlightenment in Scotland.
Notes:
• Credit will be granted for only one of HSTR 339A, HIST 383C (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

HSTR 339B  Units: 1.5  Hours: 3-0
Formerly: HIST 383B
A Social History of Enlightenment in Europe, 1680-1789
Examines the social, economic, legal and cultural developments that fostered Enlightenment in Europe in the period c. 1680-1789. Topics include: the emergence of the public sphere; the coffee houses as a site for Enlightenment; the Enlightenment as a function of urbanization; the relations between Enlightenment and the consumer revolution of the eighteenth century; the role of print in the dissemination of Enlightened ideas and values.
Note: Credit will be granted for only one of HSTR 339B, HIST 383, HIST 383B.
Recommendation(s): HSTR 130 and HSTR 338 recommended prior to HSTR 339B.

HSTR 339C  Units: 1.5  Hours: 3-0
Enlightenment and Religion
Explores the divergent attitudes to religion in Enlightenment Europe through an examination of the growing emphasis on the reasonableness of Christianity, the campaign for religious toleration and the rise of Deism and atheism.
Note: Credit will be granted for only one of HSTR 339C, HIST 388 (if taken in the same topic).

HSTR 340  Units: 1.5  Hours: 3-0
Formerly: HIST 388
Topics in European History
Notes:
• Credit will be granted for only one of HSTR 340, HIST 388 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

HSTR 342A  Units: 1.5  Hours: 3-0
Formerly: HIST 362
Europe from Louis XIV to the French Revolution
The Europe of the Ancien Regime 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.
Note: Credit will be granted for only one of HSTR 342A, HIST 362, HIST 388 (if taken as section A01 in Jan-Apr 2010).

HSTR 342B  Units: 1.5  Hours: 3-0
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 342R, HIST 363.
Recommendation(s): HSTR 240, or HSTR 240A and HSTR 240B recommended prior to HSTR 342B.

HSTR 342C  Units: 1.5  Hours: 3-0
Formerly: HIST 365, part of 365A and B
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 344A  Units: 1.5  Hours: 3-0
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  Units: 1.5  Hours: 3-0
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): HSTR 112A and HSTR 112B, or HSTR 240A and HSTR 240B recommended prior to HSTR 344B.

HSTR 344C  Units: 1.5  Hours: 3-0
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): HSTR 112A and HSTR 112B, or HSTR 240A and HSTR 240B recommended prior to HSTR 344C.

HSTR 345  Units: 1.5  Hours: 3-0
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, HSTR 340 (if taken as section A02 in Sep-Dec 2014), SLST 345.

HSTR 346  Units: 1.5  Hours: 3-0
Formerly: HIST 369
France from the Renaissance to Louis XIV
Explores how France evolved from 1500, when the king struggled to control the nobility and the Renaissance was just beginning to impact arts and literature, to 1715 when the cultural sophistication of Louis XIV’s court at Versailles had become famous and the French military dominated all of Europe. Topics include court life, gender, dueling and war, humanism, salon culture and the rise of absolutism.
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  Units: 1.5  Hours: 3-0
Formerly: HIST 370A, 370
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 Units: 1.5 Hours: 3-0
Formerly: HIST 370B, 371
Reaction, Reform and Revolution in France, 1914-1982
Study of the dynamic between revolution and reform as France struggled to implement democracy. Political culture, gender relations and social welfare are major themes.
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 HSTR 347B.

HSTR 349 Units: 1.5 Hours: 3-0
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, HSTR 300 (if taken in the same topic).

HSTR 350A Units: 1.5 Hours: 3-0
Formerly: HIST 372
Imperial Germany
Examination of 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 Units: 1.5 Hours: 3-0
Formerly: HIST 373
Weimar and Nazi Germany
Examination of 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 Units: 1.5 Hours: 3-0
Formerly: HIST 378
Germany After 1945
Focuses on political, social and cultural developments in both German states from re-organization of Germany after 1945 through re-unification in 1990, particularly on how Germany overcame militarism and authoritarianism to become a stable liberal democracy.
Note: Credit will be granted for only one of HSTR 350C, HIST 378, HIST 388 (if taken in the same topic).

HSTR 351 Units: 1.5 Hours: 3-0
Also: SLT 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 to taking this course.
Recommendation(s): 1.5 units of 100-level HSTR course strongly recommended prior to HSTR 351.

HSTR 352 Units: 1.5 Hours: 3-0
Also: SLT 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 376, SLAV 376, SLST 362.
No knowledge of Russian is required to taking this course.

HSTR 353 Units: 1.5 Hours: 3-0
Also: SLT 363
Formerly: HIST 377, SLAV 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 HSTR 353, HIST 377, SLAV 377, SLST 363.
No knowledge of Ukrainian is required prior to taking this course.

HSTR 355 Units: 1.5 Hours: 3-0
Formerly: HIST 264
Epidemics and Public Health in Modern History
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 101C, HIST 132, HIST 263, HIST 264, HIST 265 (if taken in the same topic).
No background in science is required.

HSTR 356 Units: 1.5 Hours: 3-0
Topics in the History of Science
Notes: Credit will be granted for only one of HSTR 356, HIST 396 (if taken in the same topic).
May be taken more than once for credit in different topics with permission of the department.

HSTR 356A Units: 1.5 Hours: 3-0
Science and Religion in Europe from Galileo to Darwin
Examines the changing relations between science, Christianity and other forms of religious belief in Europe from the beginning of the seventeenth century to the late nineteenth century.
Note: Credit will be granted for only one of HSTR 356A, HIST 396 (if taken in the same topic).

HSTR 364 Units: 1.5 Hours: 3-0
Also: POLI 318
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.
Note: Credit will be granted for only one of HSTR 364, HIST 438 (if taken in the same topic), POLI 318.

HSTR 365 Units: 1.5 Hours: 3-0
Topics in East Asian History
Notes:
Credit will be granted for only one of HSTR 365, HIST 438 (if taken in the same topic).
May be taken more than once in different topics with permission of the department.

HSTR 365A Units: 1.5 Hours: 3-0
Formerly: HIST 434A, also PACI 434A
Late Imperial China
Study of politics, society, economy and culture in late imperial China between 1600 and 1912. Focuses on historical continuity and change within the dynamic interactions between tradition and modernity, the state and society, the Chinese and ethnic minorities, as well as China and foreign powers.
Note: Credit will be granted for only one of HSTR 365A, HIST 434A, PACI 434A.

HSTR 365B Units: 1.5 Hours: 3-0
Formerly: HIST 434B, also PACI 434B
20th Century China
Examines Republican and Communist China between 1912 and 2012. Covers the rise and fall of the Republican democracy and the Nationalist government, as well as the successes, setbacks and reforms of the Communist regime. Emphasis is on the relationships among revolution, modernization, nationalism and communism.
Note: Credit will be granted for only one of HSTR 365B, HIST 434B, PACI 434B.

HSTR 365C Units: 1.5 Hours: 3-0
Formerly: HIST 434C
China and the World
Examines the contemporary history of Chinese foreign policy, familiarizing the students with the development of the foreign policy of the People’s Republic of China from a communist isolationist country to a rising power in world politics. Introduces the wide policy arena where China perceives, manages and develops its relations with various powers, groups of countries, geopolitical regions and international organizations.
Note: Credit will be granted for only one of HSTR 365C, HIST 434C, HIST 438 (if taken in the same topic).
### HSTR 366 - History of the Atlantic Slave Trade

**Units:** 1.5  
**Hours:** 3-0  
**Formerly:** HIST 459  
**History of South Africa**  
Examines South Africa from 1652 to 1994, focusing on the contestants for the land, the construction of the modern South African state, and the life and death of apartheid.  
**Note:** Credit will be granted for only one of HSTR 374, HIST 459, HIST 468 (if taken in the same topic).

### HSTR 367 - Rise and Fall of Imperial Japan

**Units:** 1.5  
**Hours:** 3-0  
**Formerly:** HIST 436A  
**Rise and Fall of Imperial Japan**  
Traces the rise of imperial Japan as a reaction to Euro-American imperialism and as a means of “leaving” Asia. Examines Japan’s expansion in China and the reaction of Chinese people and parties; the extension of the war to the Pacific; and the end of the war and the bombing of Hiroshima and Nagasaki as well as the Occupation period (1945–1952).  
**Note:** Credit will be granted for only one of HSTR 367, HIST 436A, PACI 436A.  
**Recommendation(s):** HSTR 2678 recommended prior to HSTR 367.

### HSTR 369 - Hiroshima and Beyond

**Units:** 1.5  
**Hours:** 3-0  
**Hiroshima and Beyond**  
Examines the atomic bombing of Hiroshima and Nagasaki that killed 300,000 people, mostly civilians; explores how the decision was made and the rejected alternatives; analyzes the impact of the bombs on diverse populations in the context of the Pacific War; introduces legal perspectives, nuclear proliferation, and the history of the anti-nuclear movement.  
**Note:** Credit will be granted for only one of HSTR 369, HIST 438 (if taken in the same topic).

### HSTR 370 - War and Revolution in Modern China

**Units:** 1.5  
**Hours:** 3-0  
**Formerly:** HIST 468  
**War and Revolution in Modern China**  
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 Republic, Nationalist and Communist revolutions. Special attention given to the militant radicalization of revolutionary politics and the simultaneous politicization of military forces and strategies, such as the militia/guerrilla-style “people’s wars”.  
**Note:** Credit will be granted for only one of HSTR 366, HIST 438 (if taken as section A01 in Sep-Dec 2013).

### HSTR 374 - History of Decolonization in Asia and Africa

**Units:** 1.5  
**Hours:** 3-0  
**Formerly:** HIST 440  
**History of Decolonization in Asia and Africa**  
Emphasis on South and Southeast Asian history, and African diasporic 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.  
**Note:** Credit will be granted for only one of HSTR 374, HIST 468 (if taken in the same topic).

### HSTR 376A - Western Imperialism in the Middle East and North Africa

**Units:** 1.5  
**Hours:** 3-0  
**Formerly:** HIST 444  
**Western Imperialism in the Middle East and North Africa**  
Examines the rise and decline of European political and economic power over different parts of the Middle East and North Africa. Includes: theories of imperialism; the increasing integration of the region into the world economy in the 19th century; patterns and structures of colonial rule; changing ways of life and thought in colonized societies; the nationalist and religious opposition to European influence; the legacies of imperial rule in post-colonial nations.  
**Note:** Credit will be granted for only one of HSTR 379, HIST 442, HIST 468 (if taken in the same topic), HIST 469 (if taken in the same topic).

### HSTR 377 - History of the Israeli-Palestinian Conflict

**Units:** 1.5  
**Hours:** 3-0  
**Formerly:** HIST 442  
**History of the Israeli-Palestinian Conflict**  
The century-long struggle over Palestine/Israel, from the origins of Zionism to the negotiated agreements emerging from the Oslo peace process. Major themes include: the processes and structures of nation-building and state-building; the role played by regional and international actors; the broader context of socio-economic changes; the possibilities of reconciliation.  
**Note:** Credit will be granted for only one of HSTR 378, HIST 442, HIST 468 (if taken in the same topic), HIST 469 (if taken in the same topic).  
**Recommendation(s):** HSTR 112 or HSTR 112A, and HSTR 112B recommended prior to HSTR 378.

### HSTR 379 - Religion and the Making of the Modern Middle East

**Units:** 1.5  
**Hours:** 3-0  
**Formerly:** HIST 444  
**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 HSTR 380, HIST 479, HIST 443, HIST 468 (if taken in the same topic), HIST 469 (if taken in the same topic).
**HSTR 382**  Units: 1.5  Hours: 3-0
Formerly: HIST 393

**Topics in the Historical Study of Peace and War**
Selected aspects of military history and peace studies. Topics to be considered may include: war and society; naval history; science, technology, and war; the history of pacifism.

**Notes:**
- Credit will be granted for only one of HSTR 382, HIST 393 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

**HSTR 383A**  Units: 1.5  Hours: 3-0

**War and Society Prior to 1700**
Examines the development of warfare and its role and impact on society until the formation of the European nation-state, starting from the earliest written records. Main themes include: Christian and non-Christian views of war; technology of war; the role of war in early societies; attempts to control warfare; intellectual concepts of war, the tactics and strategy of war.

**Note:** Credit will be granted for only one of HSTR 383A, HIST 393 (if taken in the same topic).

**HSTR 383B**  Units: 1.5  Hours: 3-0
Formerly: part of HIST 390

**War and Society, 1700 - 1914**
Examines the central role armies and navies had in shaping nations and empires from the end of the Thirty Years War until the start of the First World War. Emphasis on the development of military thought, organization and technology. Social and cultural issues, including recruitment, military life and punishment are major themes.

**Note:** Credit will be granted for only one of HSTR 383B, HIST 390.

**HSTR 383C**  Units: 1.5  Hours: 3-0
Formerly: part of HIST 390

**War and Society, 1914 - 1950**
Explores the nature of world conflict since the end of Second World War until the present. Topics include nuclear war, science and technology, insurgency and counter insurgency, the Cold War, navies, air forces, the military-industrial complex and post-nation state warfare.

**Note:** Credit will be granted for only one of HSTR 383C, HIST 390.

**HSTR 385**  Units: 1.5  Hours: 3-0

**Topics 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 385A**  Units: 1.5  Hours: 3-0

**Witchcraft and its Persecution in the Early Modern Atlantic World**
Considers why the persecution of witchcraft became such a focus for many Europeans in the sixteenth and seventeenth centuries, the practices real and imagined that were deemed to constitute witchcraft, who was victimized, why persecuting witchcraft became much less of a preoccupation in the late seventeenth century and how European witchcraft beliefs were exported to Africa and the Americas.

**Note:** Credit will be granted for only one of HSTR 385A, HIST 468 (if taken in the same topic).

**HSTR 385B**  Units: 1.5  Hours: 3-0
Formerly: HIST 479

**History of the Modern Olympic Games**
Focuses on the Games since 1896, the philosophy of Olympism and the cultural, social, political and economic impact of the Games and their media dimensions.

**Note:** Credit will be granted for only one of HSTR 385B, HIST 479.

**HSTR 385C**  Units: 1.5  Hours: 3-0
Formerly: HIST 461

**History of Sexuality**
Examines the history of sexuality in Europe and North America with a focus on the nineteenth and twentieth centuries. Selected topics may include: heterosexuality, same sex desire, bisexuality, courtship, marriage and free love.

**Note:** Credit will be granted for only one of HSTR 385C, HIST 461, HIST 468 (if taken in the same topic).

**HSTR 385D**  Units: 1.5  Hours: 3-0

**Pirates and Piracy Since 1500**
Examines the history of pirates and piracy in the modern world, focusing on the ways in which piracy has changed over five hundred years in a context of European imperial expansion, global capitalism and the rise of the nation-state. Major topics include the "Golden Age" of piracy in the Atlantic, the image of pirates in Western popular culture and print and Internet piracy.

**Note:** Credit will be granted for only one of HSTR 385D, HIST 468 (if taken in the same topic).

**HSTR 389**  Units: 1.5  Hours: 3-0

**Topics 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 389A**  Units: 1.5  Hours: 3-0

**Public Histories Local and Global**
Public history is the presentation of the past outside academia, where people learn about the past when they visit museums, watch TV, take walking tours, go online, see films, or read novels that seek to represent worlds as they once were. Introduces students to the diverse field of public history: its definitions, its practitioners, its methods and its debates. Field trips will showcase local public history.

**Note:** Credit will be granted for only one of HSTR 389A, HIST 468 (if taken as section A01) in Sep-Dec 2013.

**HSTR 409**  Units: 1.5  Hours: 3-0

**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 410**  Units: 1.5  Hours: 3-0
Formerly: HIST 319

**Seminar in American History**

**Notes:**
- Credit will be granted for only one of HSTR 410, HIST 319 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.

**HSTR 412**  Units: 1.5  Hours: 3-0
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 412A**  Units: 1.5 or 3.0  Hours: 3-0
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 320A (if taken in the same topic).

**Recommendation(s):** HSTR 236 recommended prior to HSTR 412A.

**HSTR 414**  Units: 1.5  Hours: 3-0

**Seminar in 17th-century England**

**Social, cultural and political history of 17th-century England.**

**Topics include Jacobean sex scandals, murder pamphlets, the English Civil War, the execution of Charles I, radical religion and the Interregnum, the Restoration and the Glorious Revolution. Broader themes include hierarchy and religion, crime, gender, marriage and everyday life. Provides the advanced student a general introduction to some of the main primary sources and larger historiographical issues.**

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

**Recommendation(s):** One of HSTR 220A, HSTR 220B, HSTR 312 recommended prior to HSTR 414.

**HSTR 415**  Units: 1.5  Hours: 3-0

**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 338 (if taken in the same topic).
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<th>Course Code</th>
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<th>Hours</th>
<th>Course Title</th>
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<tbody>
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<td>HSTR 416</td>
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<td>Mass Media and British Politics and Society, 1896-1956</td>
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<td>HSTR 420</td>
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<td>Seminar in British History</td>
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<td>HSTR 426</td>
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<td>Seminar in Canadian Military History</td>
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<td>HSTR 426A</td>
<td>1.5</td>
<td>3-0</td>
<td>Veterans' Oral History</td>
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<td>HSTR 427</td>
<td>1.5</td>
<td>3-0</td>
<td>Seminar in Indigenous History of Canada</td>
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<td>HSTR 428A</td>
<td>1.5</td>
<td>3-0</td>
<td>An Environmental History of the North American Forest</td>
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<td>HSTR 429</td>
<td>1.5</td>
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<td>Seminar in Canadian Political History</td>
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<td>HSTR 430</td>
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<td>Seminar in Canadian History</td>
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<tr>
<td>HSTR 436</td>
<td>1.5 or 3.0</td>
<td>3-0</td>
<td>Part of HIST 380, 380A</td>
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<td>HSTR 436F</td>
<td>1.5 or 3.0</td>
<td>3-0</td>
<td>Individual, Family and Community in Medieval Society</td>
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<td>HSTR 436L</td>
<td>1.5</td>
<td>3-0</td>
<td>Medieval Law and Literacy</td>
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<td>HSTR 436T</td>
<td>1.5</td>
<td>3-0</td>
<td>The Records of the History of Middle-earth</td>
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<td>HSTR 439</td>
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<td>3-0</td>
<td>Seminar in European History</td>
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<td>HSTR 440</td>
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<td>Seminar in European History</td>
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<td>HSTR 443</td>
<td>1.5</td>
<td>3-0</td>
<td>Atheism and Unbelief in Early Modern Europe</td>
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<td>HSTR 444</td>
<td>1.5</td>
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<td>Early Modern French Cultural History</td>
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HSTR 445A  Units: 1.5  Hours: 3-0
Formerly: HIST 371A
Scandals and Political Culture in France, 1785-1870
Explores notorious political, economic and sexual scandals and evaluates contemporary values and political accountability.
Note: 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  Units: 1.5  Hours: 3-0
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  Units: 1.5  Hours: 3-0
Seminar in the History of Disease and Public Health
Explores 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  Units: 1.5  Hours: 3-0
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.
Note: 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, HSTR 140, HSTR 140A, HSTR 140B, HSTR 366, HIST 373; and
• Minimum third-year standing.

HSTR 451  Units: 1.5  Hours: 3-0
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.
• Intended for students with some academic background in Russian and Eastern European history.
Recommendation(s): HSTR 352 or HSTR 353 recommended prior to HSTR 451.

HSTR 465  Units: 1.5  Hours: 3-0
Seminar in East Asian History
Notes:
• Credit will be granted for only one of HSTR 465, HIST 439 (if taken in the same topic), PACI 439 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

HSTR 466  Units: 1.5  Hours: 3-0
Migration, Race & Empire: Canada and the Transpacific
Examines the intersections between race and imperialism in the Transpacific from 1840 to decolonization and offers possibilities for community-based, action research. Explores how the Transpacific experience marked Victoria, Canada 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.
Note: Credit will be granted for only one of HSTR 466A, HSTR 465 (if taken as section A01 in Jan-Apr 2015), HSTR 508A, HIST 439 (if taken as section A01 in Sept-Dec 2011), HIST 508A.

HSTR 467  Units: 1.5  Hours: 3-0
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 467, 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  Units: 1.5  Hours: 3-0
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).
Recommendation(s): HSTR 112, or HSTR 112A and HIST 112B recommended prior to HSTR 479.

HSTR 481  Units: 1.5  Hours: 3-0
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, HIST 451.

HSTR 482  Units: 1.5  Hours: 3-0
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.

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 483 - HUMA 495

HSTR 483  Units: 1.5  Hours: 3-0
The City in History
Surveys the global history of cities since ancient times with particular emphasis on North American urban development since the 19th century. Topics include theories of urban culture, urban and regional economies, social experience in the city, urban inequality, city planning, suburbanization and transnational ties among cities.
Note: Credit will be granted for only one of HSTR 483, HIST 469 (if taken in the same topic).

HSTR 484  Units: 1.5  Hours: 3-0
The Social and Political History of Food in North America
Examines the way that food production and consumption have shaped the social, cultural, political and economic environment of North American over the last millennium.
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
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
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 485B  Units: 1.5  Hours: 3-0
Making ‘Race’ in the British Atlantic World
Examines historical processes through which modern concepts of ‘race’ and difference were made on the ground in the British Atlantic empire (North America, Caribbean, West and Southern Africa, 1500-1900). Themes include: cultural encounters in early explorations; shifting interactions of gender, religion, nation and race; responses of enslaved and indigenous peoples; social reform, rise of scientific racism.
Note: Credit will be granted for only one of HSTR 485B, HIST 469 (if taken in the same topic).

HSTR 489  Units: 1.5  Hours: 3-0
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
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 339 (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
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, 495
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.

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.

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
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 120.
Prerequisite(s): Admission to Diploma program in Humanities.

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
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
Advanced Topics in Humanities
Note: May be taken more than once for credit in different topics with permission of the faculty.
IA

Interdisciplinary Arts
Department of Curriculum and Instruction
Faculty of Education
Courses offered by the Faculty of Education are also found under the following course codes: AE, ED-D, ED-P, ECC, EPHE, IA, IED, IE, ME.

IA 400 Units: 1.5 Hours: 3-0
Fine Arts in Education
The nature of the visual and performing arts; the arts in education; commonalities and differences; informed advocacy.
Prerequisite(s): 3 units of ART or AE courses.

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 218 Units: 1.5
International Field Study
Introduces students to the international business environment. Provides a classroom-based introduction to international business issues and culminates in a short instructor-guided field trip to an offshore locale.
Note: Travel fees apply for this course.
Prerequisite(s):
- Minimum second-year standing; and
- Admission to BCom program.

IB 301 Units: 1.5 Hours: 3-0
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.
Note: Not open to students registered in or with credit in COM 361.
Prerequisite(s): Minimum third-year standing.

IB 405 Units: 1.5 Hours: 3-0
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 405 (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
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
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
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
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
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
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 1: Program Orientation
A face-to-face session introduces students to the skills they will require to engage in online learning and will include introductory sessions for ICDG 301 and ICDG 302.
Grading: COM, N, F.

ICDG 301 Units: 1.5
Governing 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. 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
Research and Project Management in Indigenous Organizations
An intensive face-to-face session providing 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. Examines 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 resourcing 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, EDCI, EPHE, IA, IED, IE, ME

IED 156 Units: 1.5 Hours: 3-0
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. Students will be supported to create self-directed language domains in their lives. Students will be required to log 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 faculty.

Prerequisite(s):
• Registration in Diploma or BEd program in Indigenous Language Revitalization; or
• permission of the faculty.

Grading: COM, N or F

IED 157 Units: 1.5 Hours: 3-0
Learning to Learn: Supporting Indigenous Language Learning
Supports students learning their Indigenous language by examining effective strategies for adult L2 (second language) learners. Students will 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 only be granted for only one of IED 157, LING 157.

Prerequisite(s): One of admission to BEd program in Indigenous Language Revitalization, admission to Diploma program in Indigenous Language Revitalization, admission to Certificate program in Aboriginal Language Revitalization.

Grading: COM, N or F
IED 158  Units: 1.5  Hours: 3-0
Also: LING 158
Indigenous Language Mentorship I
A 100-hour 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 in different topics with permission of the faculty.
• May be counted towards the second language requirement of the BA in Applied Linguistics and of the Diploma in Applied Linguistics.
Subject to the “Guidelines for Ethical Conduct” and “Regulations Concerning Practica”.
May not be counted toward any degree program in Linguistics or Applied Linguistics, or a Diploma in Applied Linguistics.
Prerequisite(s):
• One of admission to BEd program in Indigenous Language Revitalization, admission to Diploma program in Indigenous Language Revitalization, admission to Certificate program in Aboriginal Language Revitalization; and
• permission of the faculty.
Grading: INP, COM, N, F

IED 159  Units: 1.5  Hours: 3-0
Also: LING 159
Indigenous Language I
Teaching and learning of an Indigenous language at the first-year level.
Notes:
• May be taken more than once for credit in different topics with permission of the faculty.
• Registration is normally limited to students in the B.Ed. in Indigenous Language Revitalization, Diploma in Indigenous Language Revitalization, or the Certificate Program in Aboriginal Language Revitalization.
May be counted towards the second language requirement of the BA in Applied Linguistics and of the Diploma in Applied Linguistics.
May not be counted toward any degree program in Linguistics or Applied Linguistics, or a Diploma in Applied Linguistics.
Grading: INP, COM, N, F

IED 187  Units: 1.5  Hours: 3-0
Special Topics in Indigenous Education
Note: May be taken more than once for credit in different topics with the permission of the program.

IED 199  Units: 1.5  Hours: 3-0
Special Studies in Indigenous Education
Note: May be taken more than once for credit in different topics with the permission of the program.
Grading: COM, N, F

IED 250  Units: 1.5  Hours: 3-0
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 lessons, unit 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 259. IED 257 (if taken in the same topic).
Prerequisite(s):
• Registration in Diploma program in Indigenous Language Revitalization; or
• permission of the faculty.

IED 251  Units: 1.5  Hours: 3-0
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
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, and will be required to log 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 faculty.
Prerequisite(s):
• One of IED 156, IED 158, IED 159, LING 158, LING 159; and
• registration in Diploma or BEd program in Indigenous Language Revitalization; or
• permission of the faculty.
Grading: INP, COM, N, F

IED 258  Units: 1.5  Hours: 3-0
Indigenous Language Mentorship II
A 100-hour 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 in different topics with permission of the faculty.
• May be counted towards the second language requirement of the BA in Applied Linguistics and of the Diploma in Applied Linguistics.
Subject to the “Guidelines for Ethical Conduct” and “Regulations Concerning Practica”.
May not be counted toward any degree program in Linguistics or Applied Linguistics, or a Diploma in Applied Linguistics.
Prerequisite(s):
• One of IED 158, IED 159, LING 158, LING 159; and
• one of admission to BEd program in Indigenous Language Revitalization, admission to Diploma program in Indigenous Language Revitalization, admission to Certificate program in Aboriginal Language Revitalization; or
• permission of the faculty.
Grading: INP, COM, N, F

IED 259  Units: 1.5  Hours: 3-0
Also: LING 259
Indigenous Language II
Teaching and learning of an Indigenous language at the second-year level.
Notes:
• May be taken more than once for credit in different topics with permission of the faculty.
• May be counted towards the second language requirement of the BA in Applied Linguistics and of the Diploma in Applied Linguistics.
May not be counted toward any degree program in Linguistics or Applied Linguistics, or a Diploma in Applied Linguistics.
Prerequisite(s):
• One of IED 158, IED 159, LING 158, LING 159; and
• admission to BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization; or
• permission of the faculty.
Grading: INP, COM, N, F

IED 287  Units: 1.5  Hours: 3-0
Special Topics in Indigenous Education
Note: May be taken more than once for credit in different topics with the permission of the faculty.

IED 299  Units: 1.5  Hours: 3-0
Special Studies in Indigenous Education
Note: May be taken more than once for credit in different topics with the permission of the faculty.
Grading: COM, N, F
I ED 356  Units: 1.5  Hours: 3-0

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 the third-year level. Students will be supported to create self-directed language domains in their lives, and will be required to log 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 faculty.

Prerequisite(s):
- One of IED 256, IED 258, IED 259, LING 258, LING 259; and
- registration in Diploma or BEd program in Indigenous Language Revitalization; or
- permission of the faculty.

I ED 358  Units: 1.5  Hours: 3-0

Also: LING 358

Indigenous Language Mentorship III

A 100-hour 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 faculty.
- May be counted towards the second language requirement of the BA in Applied Linguistics and of the Diploma in Applied Linguistics.

Subject to the "Guidelines for Ethical Conduct" and "Regulations Concerning Pracitca". May not be counted toward any degree program in Linguistics or Applied Linguistics, or a Diploma in Applied Linguistics.

Prerequisite(s):
- One of IED 258, IED 259, LING 258, LING 259; and
- admission to BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization; or
- permission of the faculty.

Grading: NIP, COM, N, F.

I ED 359  Units: 1.5  Hours: 3-0

Also: LING 359

Indigenous Language III

Teaching and learning of an Indigenous language at the third-year level.

Notes:
- May be taken more than once for credit with permission of the faculty.
- May be counted towards the second language requirement of the BA in Applied Linguistics and of the Diploma in Applied Linguistics.

May not be counted toward any degree program in Linguistics or Applied Linguistics, or a Diploma in Applied Linguistics.

Grading: NIP, COM, N, F.

I ED 371  Units: 1.5  Hours: 3-0

Formerly: EDCI 371, IS 371

The History of Indigenous Education in Canada

A broad overview of the history of First Nations, Métis, and Inuit education in Canada. Various eras in the history of K-12 Indigenous Education in Canada will be examined. Pre-contact forms of Indigenous knowledge and pedagogy are emphasized. The purpose of education from both historical and contemporary Indigenous perspectives will be explored as well as the current situation and future directions in both public schools and Indigenous-controlled schools in BC.

Note: Credit will be granted for only one of IED 371, EDCI 371, IS 371.

Grading: COM, N, F.

I ED 372  Units: 1.5  Hours: 3-0

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.

I ED 373  Units: 1.5  Hours: 3-0

Formerly: EDCI 373, IS 373

EL TEL NWT and Indigenous Education

An exploration of learning and teaching approaches to better address the educational requirements of Indigenous children, youth, and adults through understanding Indigenous peoples’ relationship with land, language and community. Topics include: study of who Indigenous peoples are, diversity amongst Indigenous peoples, ways to Indigenize the learning and educational environment, and of the systems that impact teachers and learners.

Note: Credit will be granted for only one of IED 373, EDCI 373, IS 373.

Grading: COM, N, F.

I ED 374  Units: 1.5  Hours: 3-0

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 374, IED 499 (if taken in the same topic).

Grading: COM, N, F.

I ED 387  Units: 1.5  Hours: 3-0

Special Topics in Indigenous Education

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

I ED 399  Units: 1.5  Hours: 3-0

Special Studies in Indigenous Education

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

Grading: COM, N, F.
IED 473 Units: 1.5 Hours: 3-0
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

IED 475 Units: 1.5 Hours: 3-0
Immersion 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.

IED 486 Units: 1.5 Hours: 3-0
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.
- Fulfils 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.

IED 487 Units: 1.5 Hours: 3-0
Special Topics in Indigenous Education
Note: May be taken more than once for credit in different topics with the permission of the faculty.

IED 499 Units: 1.5 or 3.0 Hours: 3-0
Professional Development - Indigenous Education
Directed at improving specific teacher and/or administrator competencies.
Note: May be taken more than once for credit in different topics with the permission of the faculty.
Grading: COM, N, F

IET
Intercultural Education

IED 400 Units: 1.5 or 3.0
Practicum in Intercultural Education
Students may choose to undertake a 1.5 or 3.0 unit practicum toward the end of their program. A practicum 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.
Note: May be taken more than once for credit to a maximum of 3 units.
Grading: IEP, COM, N, F

IET 410 Units: 1.5 or 3.0
Final Project in Intercultural Education
Students may choose to undertake a 1.5 or 3.0 unit final project toward the end of the Intercultural Education Program. The final project provides an opportunity to demonstrate knowledge of both theory and practice in a selected area of intercultural studies.
Grading: IEP, COM, N, F

IET 420 Units: 1.5 Hours: 3-0
Topics in Intercultural Education
Selected major topics and issues in intercultural education. Students are advised to consult with the Program Office for information on the subject and course schedule.
Note: May be taken more than once for credit in different topics to a maximum of 3 units
Prerequisite(s):
- Minimum third-year standing, or
- admission to Diploma program in Intercultural Education.

IET 430 Units: 1.5 Hours: 3-0
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.

IGOV
Indigenous 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.

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.

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.

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.

IGOV 400 Units: 1.5 Hours: 3-0
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.

INGH
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.
INGH 453  
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.

INGH 454  
Leadership in First Nation Communities
Focuses on the development of leadership skills through coursework that examines team building, strategic planning, project management, conflict resolution, negotiation and managing change. Students will become familiar with various leadership styles that exist within First Nations governments.

INGH 455  
Community Development and Capacity Building in First Nation Communities
Focuses on developing fundamental knowledge of First Nations community engagement, community development, community asset mapping and capacity building. Connecting, collaborating and advocacy will be explored as foundational skills in the promotion of First Nations community well-being.

INTS  
International Health Studies
School of Public Health and Social Policy
Faculty of Human and Social Development

INTS 460  
Foundations in International and Global Health and Human Development
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 will be explored including an examination of factors such as economics, politics and technology.

INTS 462  
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 stories 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.

IS  
Indigenous Studies

Program in Indigenous Studies
Interdisciplinary Programs

IS 200A  
Units: 1.5  
Hours: 3-0
Formerly part of 200 Indigenous Studies Foundations
Provides students with a basic introduction to Indigenous Studies, including key concepts, themes and topics relevant to Indigenous histories and contemporary practices within Canada. Emphasis on the formation, maintenance and diversity of Indigenous identities.

Note: Credit will be granted for only one of IS 200A, IS 200B.

IS 200B  
Units: 1.5  
Hours: 3-0
Formerly part of 200

Introduction to Indigenous Studies
An interdisciplinary approach to Indigenous subject matters with special emphasis on cultural and socio-political processes that shape Indigenous experiences and realities within contemporary Canada. Introduction to key thinkers, events, policies and practices relevant to Indigenous Studies.

Note: Credit will be granted for only one of IS 200B, IS 200.

Prerequisite(s): IS 200A.

IS 310  
Units: 1.5  
Hours: 3-0
Formerly 220

LE, NONET Preparation Seminar
Introduces Indigenous (First Nations, Métis, Inuit) students to knowledge and skills necessary for working with Indigenous communities and organizations, or with campus-based academic researchers, through a Research Apprenticeship (320) or Community Internship (321). Provides an introduction to western and Indigenous research methodologies.

Note: Credit will be granted for only one of IS 310, IS 220.

Prerequisite(s):
• Minimum second-year standing, and
• permission of the program.

Recommendation(s): One of IS 200A, CYC 230, POLI 263, WS 207 recommended prior to IS 310.

IS 320  
Units: 1.5

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 120 hours of research under the supervision of a faculty member from any department and submit a final project report.

Prerequisite(s):
• IS 220 with a minimum grade of B+ (77%) or IS 310 with a minimum grade of B+ (77%); and
• permission of the program.

IS 321  
Units: 1.5

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):
• IS 220 with a minimum grade of B+ (77%) or IS 310 with a minimum grade of B+ (77%); and
• permission of the program.

IS 400  
Units: 1.5  
Hours: 3-0

Special Topics Seminar in Indigenous Studies
An interdisciplinary investigation of a selected Indigenous subject approached from Indigenous perspectives. Seminar to be taken as capstone course for Indigenous Studies Minor. Topics will be traditional and/or contemporary in their focus.

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): IS 200 or IS 200B.

IS 490  
Units: 1.5

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 Director of the Program.

Note: May be taken more than once for credit in different topics with permission of the program, but only 1.5 units may be counted towards an IS program.

Prerequisite(s):
• IS 200 or IS 200B, and
• minimum third-year standing, or
• permission of the program.
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 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-standard mistake. The department will assign students with some knowledge of Italian to the appropriate level.

ITAL 100A Units: 1.5 Hours: 3-0
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.
Note: Credit will be granted for only one of ITAL 100A, ITAL 100B, ITAL 149 or ITAL 149.
Prerequisite(s): Permission of the department.

ITAL 100B Units: 1.5 Hours: 3-0
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.
Note: Credit will be granted for only one of ITAL 100B, ITAL 100A, ITAL 149.
Prerequisite(s): ITAL 100A or permission of the department.

ITAL 149 Units: 3.0 Hours: 6-0
Beginners' Italian III
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
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 Moctezuma, Christopher Columbus, Leonardo da Vinci, Lucrezia Borgia, Maria 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.

ITAL 204 Units: 1.5
Experiential Learning
Students present a project, determined in advance by the department, based on work, study, research, or volunteering while living in Italy.
Prerequisite(s): Permission of the department.
Grading: COM, N, F.

ITAL 250A Units: 1.5 Hours: 3-0
Review of Grammar and Conversation I
Continued exploration of the language and culture of Italy. Expansion of grammatical concepts and structures presented in beginners' Italian. Further development of writing, reading, speaking and listening skills. Taught mostly in Italian.
Note: Credit will be granted for only one of ITAL 250A, ITAL 200.
Prerequisite(s): ITAL 100B or ITAL 149; or permission of the department.

ITAL 250B Units: 1.5 Hours: 3-0
Review of Grammar and Conversation II
Continued exploration of the language and culture of Italy. Additional development of grammatical concepts and structures presented in beginners' Italian. Further development of writing, reading, speaking and listening skills. Taught mostly in Italian.
Note: Credit will be granted for only one of ITAL 250B, ITAL 200.
Prerequisite(s): ITAL 250A.

ITAL 265 Units: 1.5 Hours: 3-0
Introductory Written Italian
Expands the student's ability to communicate in Italian in various written forms (compositions, book and film reviews, newspaper articles, creative writing). Explores and uses a variety of texts that will serve as examples for the written assignments.
Note: Not open to students with credit in ITAL 365.
Prerequisite(s): ITAL 250A; or permission of the department.

ITAL 273 Units: 1.5 Hours: 3-0
Italian Renaissance (in English)
An interdisciplinary approach to the Italian Renaissance, including such key figures as Lorenzo de' Medici, Leonardo da Vinci, Niccolò Machiavelli, Lucrezia Borgia, Michelangelo Buonarroti and Vittoria Colonna.
Note: Credit will be granted for only one of ITAL 273, ITAL 370B, ITAL 473.

ITAL 300 Units: 1.5 Hours: 3-0
Italian for Reading Knowledge
Designed for the attainment of reading proficiency in Italian. Basic Italian grammar taught in conjunction with texts of progressive complexity.
Note: Not open to students who have completed second-year Italian language courses or higher, or students who have completed only first-year Italian within the previous three years, unless permission is granted by the department.
Recommendation(s): Recommended particularly for third- and fourth-year undergraduates and graduate students.

ITAL 304 Units: 1.5 Hours: 3-0
Rome, the Eternal City (in English)
Study of the city of Rome from the Renaissance to the present day. Topics may include: Rome at the time of the Borgias; The Jews of Rome, one neighbourhood over time; Fascist Rome, renewed aspirations of empire; Rome in film from Rossellini to Woody Allen.
Note: May be taken more than once for credit in different topics with permission of the department.

ITAL 305 Units: 1.5 Hours: 3-0
A Taste of Italy, Food as Culture (in English)
Exploration of the rich culinary tradition of Italy. Introduction to the diversity of Italian cooking as a reflection of its culture's centuries-old history.

ITAL 306 Units: 1.5 Hours: 3-0
Italian Culture (in English)
An introduction to artistic, intellectual, social and political trends in Italy from Medieval times to Italy in the new Europe of the 21st century, using the cultural history of three cities in particular to illustrate them: Florence, Venice and Rome. Specific reference will be made to Medieval and Renaissance Italy as a centre of culture in Europe, the Risorgimento, the Fascist regime and the Italian miracle of the post-war period.
Prerequisite(s): Minimum second-year standing.

ITAL 308 Units: 1.5 Hours: 3-0
Travels to Bell'Italia (in English)
Explores the appeal of Italy worldwide by analyzing images of Italian culture in novels, travel writing, journalism, autobiography and films. Italian as well as non-Italian writers and filmmakers to be considered; emphasis on 20th and 21st centuries.
Note: Credit will be granted for only one of ITAL 308, ITAL 203.
Prerequisite(s): Minimum second-year standing.

ITAL 350 Units: 1.5 Hours: 3-0
Advanced Italian Grammar
A contrastive analysis of Italian and English grammatical and syntactic structures which introduces students to Italian literature through the study of short stories, journal articles and contemporary media. Development of vocabulary, writing skills and complex linguistic structures.
Note: Credit will be granted for only one of ITAL 350, ITAL 352, ITAL 370.
Prerequisite(s): ITAL 250A and ITAL 250B with a minimum GPA of 4.0; or permission of the department.

ITAL 351 Units: 1.5 Hours: 3-0
Advanced Italian Language
Oral and grammar-focused written practice centred on the study of the Italian language as used in the media, popular fiction, children's literature, poetry and music. Covers grammar and syntax, literary history and academic writing.
Prerequisite(s): ITAL 250A and ITAL 250B with a minimum GPA of 4.0; or permission of the department.
ITAL 478  
Units: 1.5  
Hours: 3-0  
Formerly: 370C  
Topics in Modern Italian Literature  
Major literary works of 20th century Italy. Authors to be studied may include Tozzi, Svevo, Pirandello, 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.  
Pre- or Corequisite(s): ITAL 350 or ITAL 351.  

ITAL 479A  
Units: 1.5  
Hours: 3-0  
Also: SPAN 479A  
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.  
Pre- or Corequisite(s): Minimum second-year standing.  

ITAL 479B  
Units: 1.5  
Hours: 3-0  
Central Themes of the Hispanic and Italian World (in English)  
Capstone seminar devoted to the study of a particular theme, coordinated with the annual colloquium of the Department of Hispanic and Italian Studies. May focus on issues such as women, literary gastronomy, the underworld, exile, humour, or revolutions.  
Notes:  
• Credit will be granted for only one of ITAL 491, SPAN 491.  
Pre- or Corequisite(s): Minimum third-year standing; or  
permission of the department.  
Recommendation(s): Recommended for Honours in Hispanic Studies, Majors and Minors in Hispanic Studies or Italian Studies.  

ITAL 495  
Units: 1.5 or 3.0  
Hours: 3-0  
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 400  
Units: 1.5  
Hours: 3-0  
Formerly: 300  
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.  
Pre- or Corequisite(s): Minimum second-year standing.  

ITAL 378 - LAS 499
LATI 101  Units: 1.5  Hours: 3-0
Introductory Latin I
Introduction to the basic grammatical patterns of the language of ancient Rome, practiced in a series of readings adapted from Latin literature.
Notes:
• Credit will be granted for only one of LATI 101, LATI 100.
• No previous knowledge of Latin required.

LATI 102  Units: 1.5  Hours: 3-0
Introductory Latin II
Continuation of 101, which completes the survey of basic Latin grammar, designed to improve students' ability to read the language. More in-depth readings adapted from Latin prose and poetry.
Note: Credit will be granted for only one of LATI 102, LATI 200.
Prerequisite(s): LATI 101.

LATI 201  Units: 1.5  Hours: 3-0
Advanced Latin Grammar
Review of grammar covered in 101 and 102, followed by study of more advanced grammatical constructions. Readings provide a transition from simplified language to genuine literary Latin.
Note: Credit will be granted for only one of LATI 201, LATI 200.
Prerequisite(s):
• LATI 102; or
• permission of the department.

LATI 202  Units: 1.5  Hours: 3-0
Introduction to Latin Literature
Reading of selected Latin authors, accompanied by a review of grammar.
Note: Credit will be granted for only one of LATI 202, LATI 200.
Prerequisite(s):
• LATI 201; or
• permission of the department.

LATI 301  Units: 1.5  Hours: 3-0
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
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
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
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
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
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.

LATI 350  Units: 1.5  Hours: 3-0
Medieval Latin
Readings will be structured around a topic in post-classical Latin literature. Possible topics include: Latin literature of Late Antiquity, medieval epic, Latin lyric of the 12th century, medieval Latin comedy.
Note: Credit will be granted for only one of LATI 350, LATI 250, MEDI 350.
Prerequisite(s):
• LATI 202; or
• permission of the department.
LAW 106 - LAW 311

LAW 106 Units: 1.0
The Legal Process
The Legal Process seeks a perspective of the processes of decision making throughout the legal system by examining its major institutions and the function of substantive and procedural law within them. Attempts to provide first-year students with a transactional "overview" of their new discipline in its totality. Provides a background for courses in the second- and third-year program. Introduces students to the institutional structure of the Canadian legal system and, at the same time, provides an analysis of the role of law in society. Presents a variety of components, namely historical, institutional, procedural and philosophical. Topics include the role of law in society, the function of the legal profession, the development of the legal system, the reception of English Law in Canada, the contemporary legal system in British Columbia, the structure of the courts, problems of fact finding and evidence stare decisis, sources of law, the legislative process, administrative tribunals, an introduction to jurisprudential concepts, future trends with respect to the role of law in society, including law reform, legal services, the legal profession, access to the law.
Note: Full year course: 30 hours.
Grading: COM, N, F.

LAW 108A Units: 2.0
Contracts
An introduction to the legal principles regarding the enforcement of promises. Focuses on the development of common law rules regarding formation of contract, third parties, interpretation and the scope of contractual obligations, control of contractual power, mistake, frustration and remedies for breach.
Note: Full year course: 60 hours.

LAW 108B Units: 2.0
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 realty (land) and personality, including doctrine of estates (present and future), bailment, finders and gifts.
Note: Full year course: 60 hours.

LAW 108C Units: 2.0
Torts
Examines legal principles that govern the ascription of civil liability for interference with legally protected interests of others. Carries 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.
Note: Full year course: 60 hours.

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.
Note: Full year course: 45 hours.

LAW 301 Units: 2.0 Hours: 4-0
The Administrative Law Process
An investigation of the nature and function of the administrative process with particular reference to the development of tribunals and agencies with a wide variety of disparate functions and interactions with private life. Similarly, investigates the way in which tribunals and courts interact, with specific reference to the judicial arsenal available for the control of administrative behaviour.

LAW 302 Units: 1.5 Hours: 3-0
Criminal Law II
Builds naturally upon the first-year course in the Criminal Law Process with specific reference to historical roots of the Criminal Code and general principles of criminal liability. In-depth study of such matters as party liability, conspiracy, attempts, corporate criminal liability, gang offences, terrorist offences and all major defences.

LAW 303 Units: 1.5 Hours: 3-0
Criminal Procedure
The criminal law is highly procedural in nature; it is frequently in this realm that cases are lost or won. Focus is on the strategy and tactics of criminal procedure, and with its underlying values and goals. Topics considered include arrest and detention, search and seizure, jurisdiction, elections, pretrial motions, jury trials and ethics. Particular attention is paid to how both the Charter of Rights and Freedoms and Parliament continue to reshape this evolving area of law.

LAW 304 Units: 3.0 Hours: 6-0
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 302.
Corequisite(s): All of LAW 302, LAW 303, LAW 305.

LAW 305 Units: 1.5 Hours: 3-0
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.

LAW 307 Units: 1.5 or 2.0 Hours: 3-0 or 4-0
Civil Procedure
An inquiry into the functions of a modern procedural system with specific reference to the development of a process which considers the extent to which the specific system under study aids in the achievement of just, speedy and economic resolutions of justiciable conflicts on their merits. Students will be introduced to the basic structure of a civil action and major items for consideration throughout the development of civil litigation. In the result, such matters as the expenses of litigation, jurisdiction, initial process, pleadings, amendment, joinder, discovery, disposition without trial and alternatives to adjudication will be discussed. 307B (2) Concentration in Drafting.
Note: 1.5 units or 2 units depending upon whether the course includes a concentration in drafting.

LAW 309 Units: 1.5 Hours: 3-0
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.

LAW 310 Units: 1.5 Hours: 3-0
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.

LAW 311 Units: 1.0 Hours: 2-0
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 on the governing legislation, current financial statements, and contemporary issues presented in the business press.
LAW 312  Units: 1.5  Hours: 3-0  
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. Canvasses the regulation of collection agencies and credit companies, as well as consumer bankruptcy and insolvency.

LAW 313  Units: 1.5  Hours: 3-0  
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.

LAW 314  Units: 1.0 or 1.5  Hours: 2-0 or 3-0  
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. Students are also introduced to the Vienna Convention on the International Sale of Goods. Formerly called Sale of Goods (1.0 to 1.5 units).

LAW 315  Units: 2.0 or 2.5  Hours: 4-0 or 5-0  
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, such as sole proprietorship, partnership, cooperatives and corporations. Also covers agency law. Recognizes that the corporation as an organizational form is of immense legal and commercial significance and accordingly focuses on statutory provisions and case law governing the modern corporation.

LAW 316  Units: 2.0  Hours: 4-0  
Secured Transactions and Negotiable Instruments  
After 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 Acts. Introduces the student to Bank Act security and to the law of negotiable instruments.

LAW 317  Units: 2.0  Hours: 4-0  
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.

LAW 318  Units: 1.5 or 2.0  Hours: 3-0 or 4-0  
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.

LAW 319  Units: 1.5  Hours: 3-0  
Trusts  
The trust as a mode of disposition of property for the benefit of successive or single beneficiaries, and the contrast is made with absolute dispossession. 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.

LAW 320  Units: 1.5  Hours: 3-0  
Wills, Estates & 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.

LAW 321  Units: 1.5  Hours: 3-0  
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 restrictions), and misleading advertising.

LAW 322  Units: 1.5  Hours: 3-0  
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 property 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.

LAW 323  Units: 1.5  Hours: 3-0  
Refugee Law  
The interplay between refugee law and human rights law; the nature of persecution; the meaning of "torture"; 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.

LAW 324  Units: 1.0 or 1.5  Hours: 2-0 or 3-0  
Children and the Law  
The impact of law and legal institutions on children and their relations in society, considering 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.

LAW 325  Units: 1.5  Hours: 3.0  
Also: DR 516  
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), DR 516.

LAW 326A  Units: 1.5 or 2.0 Hours: 3-0 or 4-0  
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.

LAW 326B  Units: 1.5 or 2.0 Hours: 3-0 or 4-0  
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 of LAW 326A, LAW 326.

LAW 327  Units: 1.5  Hours: 3-0  
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 Positivist school, Pure Theory school, the Sociological school, the American and Scandinavian Realist schools as well as Historical and Anthropological Jurisprudence.
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| LAW 328    | 1.5   | 3-0   | **Collective Agreements: Negotiation and Arbitration**  
A study of the negotiation and administration of collective agreements in the private sector. Topics will include labour negotiation theory, bargaining structure, grievance resolution, contract interpretation, individual rights and the role of the Labour Relations Board.** |
| LAW 329    | 1.5   | 3-0   | **Dispute Resolution: Theory and Practice**  
Examines the forms and functions of major dispute 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.** |
| LAW 330    | 1.5   | 3-0   | **International Law**  
Public International Law is concerned with the legal relations of states and the individuals who compose them. Explores the way in which sovereignty 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 law creation and law enforcement as well as the process of international adjudication.** |
| LAW 331    | 1.0 to 1.5 | 2-0 or 3-0 | **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 driftnet fishing, the Northwest Passage and the "Line of Death.** |
| LAW 332    | 1.5   | 3-0   | **Legal Theory Workshop**  
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 333    | 1.5   | 3-0   | **Indigenous Lands, Rights and Governance**  
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 336    | 1.0 to 1.5 | 2-0 or 3-0 | **Introduction to the Legal History of "The BC Indian Land Question"**  
An introduction to common law and indigenous concepts of title and governance in the context of the legal history of British Columbia. Topics covered include the fur trade, colonization, law enforcement, treaty-making, reserve creation and the role of governments and aboriginal organizations in the campaign for title and rights from the fur trade era to the Calder decision in 1973.** |
LAW 347  Units: 1.5  Hours: 3-0
Intellectual Property
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.

Prerequisite(s): LAW 350

LAW 348  Units: 1.5  Hours: 3-0
Managing Intellectual Property
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 and managing marketing IPRs.

Prerequisite(s): LAW 347

LAW 349  Units: 1.5-3.0  Hours: 3-0
Business Law Clinic
Using a clinical approach, students will apply knowledge gained in LAW 315 Business Associations 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
Clinical Term
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 352  Units: 3.0-8.0  Hours: 3-0
Exchange Law Term
With the permission of the Dean, or his or her designate, where the Faculty of Law has entered into an exchange program or agreement with another law faculty in Canada or elsewhere, a student may be allowed to enrol in this term, 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.

LAW 353  Units: 1.0-2.0  Hours: 3-0
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.

LAW 354  Units: 1.5  Hours: 3-0
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.

Grading: COM, N, F.

LAW 355  Units: 2.0  Hours: 4-0
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.

LAW 356  Units: 2.0  Hours: 4-0
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.

LAW 357  Units: 1.5  Hours: 3-0
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.

LAW 358  Units: 1.5  Hours: 3-0
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; and the legal profession; and, First Nations justice.

LAW 359  Units: 1.5  Hours: 3-0
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.

LAW 360  Units: 1.5  Hours: 3-0
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.

LAW 361  Units: 1.5  Hours: 3-0
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.

LAW 363  Units: 1.5  Hours: 3-0
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.
LAW 364 - Patent Law

In the era of globalization, public law reform has become an increasingly important aspect of development. How can developing democracies and post-conflict societies deal effectively with corruption and abuse of power, and establish political stability and sustainable development? Examines the nature and prospects of law and governance in the developing world, focusing mainly on the Commonwealth states of Asia and Africa. Australia are the subjects of the most detailed study.

Units: 1.5
Hours: 3.0

LAW 365 - 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.

Units: 1.0-4.0
Hours: 2.0

LAW 366 - Legal Mooting

Units: 1.0 or 1.5
Hours: 2.0 or 3.0

LAW 367 - 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.

Units: 1.5
Hours: 3.0

LAW 368 - 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).

Units: 1.5
Hours: 3.0

LAW 369 - 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.

Units: 1.5
Hours: 3.0

LAW 370 - 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.

Units: 1.5
Hours: 3.0

LAW 372 - 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.

Units: 1.5
Hours: 3.0

LAW 373 - 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.

Units: 1.5
Hours: 3.0

LAW 376 - International Environmental Law

Develops a practical and theoretical understanding of the development and current state of international environmental law (IEL). Treats IEL as a diverse form of regime-based global governance that embodies both regulations and a complex array of institutional arrangements. Provides a general background to the field, an understanding of diverse sectoral regimes, and a theoretical approach that can inform and crosscut these regimes.

Units: 1.5
Hours: 3.0

LAW 377 - 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.

Units: 1.5
Hours: 3.0

LAW 378 - 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. Charters of equality rights and strategic litigation, the institutional and jurisprudential frameworks of domestic human rights law, and critical theoretical debates pertaining to anti-discrimination law.

Units: 1.5
Hours: 3.0

LAW 380 - Bioethics, Personhood and the Law

Introduction to contemporary bioethical issues and their legal dimensions. Covers medical and biotechnological debates implicating human and non-human 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.

Units: 1.5
Hours: 3.0

LAW 381 - 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.

Units: 1.5
Hours: 3.0

LAW 382 - 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.

Units: 1.5
Hours: 3.0
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| LAW 383     | 1.5   | 3-0   | 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     | 1.5   | 3-0   | 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. Note: 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 theFaculty of Social Sciences. |
| LAW 385     | 1.0 or 1.5 | 2-0 or 3-0 | 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    | 2.0   | 0-2-2 | 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. Note: Credit will be granted for only one of LAW 386A, LAW 353A. Pre-or Corequisite(s): LAW 353. |
| LAW 386B    | 2.0   | 0-2-2 | 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. Pre- or Corequisite(s): All of LAW 329, LAW 353, LAW 386A. Grading: COM, N. F. |
| LAW 387     | 1.5   | 3.0   | 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. Centrally 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     | 1.5   | 3-0   | 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 389     | 1.0-2.0 | 2-0-4.0 | Appeal - Review of Current Law and Law Reform
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 390     | 0     |       | 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. |
| LAW 391     | 1.0-2.0 | 2-0-4.0 | 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 enroll 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 enrollment in the course. Note: May be taken more than once for credit with permission of the faculty to a maximum of 4 units. |
| LAW 392     | 1.5   | 3.0   | 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). |
| LAW 393     | 1.5   | 3.0   | 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). |
LAW 394 - LING 158

LAW 394  Units: 1.5  Hours: 3.0  
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).  

LAW 395  Units: 1.5  Hours: 3.0  
Comparative Indigenous Rights  
Note: Credit will be granted for only one of LAW 395, LAW 343 (if taken in the same topic).  

LAW 396  Units: 1.5  Hours: 3.0  
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).  

LAW 397  Units: 1.5  Hours: 3.0  
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).  

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.  

LING 100A  Units: 1.5  Hours: 3.0  
Formerly: half of 100  
Introduction to Linguistics I  
An introduction to the subject matter of language and linguistics. Topics studied will include the nature of language through an overview of sound systems, word structures, writing systems, meaning and lexical sets and sentence structure.  
Notes:  
•  May be repeated for a total of four terms.  
•  3 fee units.  
Grading: COM, N, F  

LING 100B  Units: 1.5  Hours: 3.0  
Formerly: half of 100  
Introduction to Linguistics II  
A more detailed examination of the topics covered in 100A as applied to the study of language in society, and language and mind. Ancillary topics may include trade languages, languages of British Columbia, dialectology, language evolution, deaf communication and language acquisition.  
Note: Credit will be granted for only one of LING 100B, LING 100, LING 360, LING 362.  

LING 109  Units: 0  Hours: 3.0  
English as a Second Language  
A non-credit course in composition skills for students whose native language is not English.  
Notes:  
•  May be repeated for a total of four terms.  
•  3 fee units.  
Grading: COM, N  

LING 110  Units: 1.5  Hours: 3.0  
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 157  Units: 1.5  Hours: 3.0  
Also: IED 157  
Learning to Learn: Supporting Indigenous Language Learning  
Supports students learning their Indigenous language by examining effective strategies for adult L2 (second language) learners. Exploration of 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 BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization, or  
•  permission of the department.  
Grading: COM, N or F  

LING 158  Units: 1.5  Hours: 3.0  
Also: IED 158  
Indigenous Language Mentorship I  
A 100-hour 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.  

LING 159  Units: 1.5  Hours: 3.0  
Also: IED 159  
Learning to Learn: Supporting Indigenous Language Learning  
Supports students learning their Indigenous language by examining effective strategies for adult L2 (second language) learners. Exploration of 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 BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization, or  
•  permission of the department.  
Grading: COM, N or F  

LING 160  Units: 1.5  Hours: 3.0  
Also: IED 160  
Indigenous Language Mentorship II  
A 100-hour mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the intermediate level.  
Notes:  
•  May be taken more than once for credit with permission of the department.  

LING 161  Units: 1.5  Hours: 3.0  
Also: IED 161  
Indigenous Language Mentorship III  
A 100-hour mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the advanced level.  
Notes:  
•  May be taken more than once for credit with permission of the department.  

LING 162  Units: 1.5  Hours: 3.0  
Also: IED 162  
Indigenous Language Mentorship IV  
A 100-hour mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the advanced level.  
Notes:  
•  May be taken more than once for credit with permission of the department.  

LING 163  Units: 1.5  Hours: 3.0  
Also: IED 163  
Indigenous Language Mentorship V  
A 100-hour mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the advanced level.  
Notes:  
•  May be taken more than once for credit with permission of the department.  

LING 164  Units: 1.5  Hours: 3.0  
Also: IED 164  
Indigenous Language Mentorship VI  
A 100-hour mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the advanced level.  
Notes:  
•  May be taken more than once for credit with permission of the department.  

LING 165  Units: 1.5  Hours: 3.0  
Also: IED 165  
Indigenous Language Mentorship VII  
A 100-hour mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the advanced level.  
Notes:  
•  May be taken more than once for credit with permission of the department.  

LING 166  Units: 1.5  Hours: 3.0  
Also: IED 166  
Indigenous Language Mentorship VIII  
A 100-hour mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the advanced level.  
Notes:  
•  May be taken more than once for credit with permission of the department.  

LING 167  Units: 1.5  Hours: 3.0  
Also: IED 167  
Indigenous Language Mentorship IX  
A 100-hour mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the advanced level.  
Notes:  
•  May be taken more than once for credit with permission of the department.  

LING 168  Units: 1.5  Hours: 3.0  
Also: IED 168  
Indigenous Language Mentorship X  
A 100-hour mentorship with a fluent speaker or speakers to build oral fluency in an Indigenous language at the advanced level.  
Notes:  
•  May be taken more than once for credit with permission of the department.
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| LING 159    | 1.5   | 3-0   | Indigenous Language I  
Teaching and learning of an Indigenous language at the first-year level.  
Notes:  
- May be taken more than once for credit with permission of the department.  
- May be counted towards the second language requirement of the BA in Applied Linguistics and of the Diploma in Applied Linguistics.  
May not be counted toward any degree program in Linguistics or Applied Linguistics, or a Diploma in Applied Linguistics.  
Prerequisite(s): Admission to BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization.  
Grading: INP, COM, N, F |
| LING 172    | 1.5   | 3-0   | 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 materials and with elders, and the revitalization of local languages. |
| LING 177    | 1.5   | 3-0   | Language Matters  
Interdisciplinary introduction to language and its role in human lives and communication. Explores social, cultural, economic, political, historical and technological factors involved in and affected by language use in a range of local and global contexts. Topics are introduced through lectures and tutorials. |
| LING 180A   | 1.5   | 3-0   | formerly part of 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.  
Prerequisite(s):  
- Admission to BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization; or  
- permission of the department. |
| LING 180B   | 1.5   | 3-0   | formerly part of 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 BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization; or  
- permission of the department. |
| LING 181    | 1.5   | 3-0   | 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.  
Prerequisite(s):  
- Admission to BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization; or  
- permission of the department. |
| LING 182    | 1.5   | 3-0   | 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 BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization; or  
- permission of the department. |
| LING 183A   | 1.5   | 3-0   | formerly part of 183  
Field Methods for Language Preservation and Revitalization: Documentation and Recording  
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 BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization; or  
- permission of the department. |
| LING 183B   | 1.5   | 3-0   | formerly part of 183  
Field Methods for Language Preservation and Revitalization: Project Development  
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 BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization; or  
- permission of the department. |
| LING 184    | 1.5   | 3-0   | Indigenous Language Materials Development  
Preparation and evaluation of curriculum and classroom materials for teaching Indigenous languages. Theory and application of curriculum development to immersion/languages 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 BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization; or  
- permission of the department. |
LING 185 - LING 309

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 Practica".
Prerequisite(s):
•  Admission to BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization, and
•  permission of the department.
Grading: INP, COM, N, F

LING 186  Units: 1.5  Hours: 3-0
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 BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization; or
•  permission of the department.

LING 187  Units: 1.5  Hours: 3-0
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 BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization; or
•  permission of the department.

LING 195  Units: 1.5  Hours: 3-0
The Social Side of English Grammar
An examination of the ideal of “good grammar” and its role in society. 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.

LING 200  Units: 1.5  Hours: 3-0
Formerly: 250 and 251
Introduction to Phonetics and Phonology
Introduction to the phonetic properties of speech sounds and their organization into sound systems. Practice in recognizing, transcribing and describing sounds. Basic principles and methods of phonological analysis and theory.
Note: Credit will be granted for only two of LING 200, LING 250, LING 251.
Prerequisite(s): LING 100A or LING 181.

LING 203  Units: 1.5  Hours: 3-0
Formerly: 252, 210B, parts of 210 and 230
Introduction to Morphology and Syntax
Introduction to word structure (morphology) and sentence structure (syntax). Practice in analyzing words and sentences; introduction of elements of morphological and syntactic theories.
Note: Credit will be granted for only one of LING 203, LING 210, LING 210B, LING 252.
Pre- or Corequisite(s): LING 100A or LING 181.

LING 204  Units: 1.5  Hours: 3-1
Research Methods in Linguistics
Introduction to research approaches in Linguistics. Emphasis on the range of research methods used in the various subdisciplines in linguistics. Areas include creating and referencing primary and secondary sources of data, instrumental research, experimental design and ethical considerations when conducting various types of linguistic research.
Prerequisite(s):
•  LING 100A or LING 181; or
•  permission of the department.

LING 258  Units: 1.5  Hours: 3-0
Also: IED 258
Indigenous Language Mentorship II
A 100-hour 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.
•  May be counted towards the second language requirement of the BA in Applied Linguistics and of the Diploma in Applied Linguistics.
May not be counted toward any degree program in Linguistics or Applied Linguistics, or a Diploma in Applied Linguistics.
Prerequisite(s):
•  Permission of the department.

LING 259  Units: 1.5  Hours: 3-0
Also: PAAS 279
Indigenous Language II
Teaching and learning of an Indigenous language at the second-year level.
Notes:
•  May be taken more than once for credit with permission of the department.
•  May be counted towards the second language requirement of the BA in Applied Linguistics and of the Diploma in Applied Linguistics.
May not be counted toward any degree program in Linguistics or Applied Linguistics, or a Diploma in Applied Linguistics.
Prerequisite(s):
•  One of LING 158, LING 159, IED 158, IED 159; and
•  admission to BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization; or
•  permission of the department.
Grading: INP, COM, N, F

LING 261  Units: 1.5  Hours: 3-0
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 Chinese linguistics.
Notes:
•  Credit will be granted for only one of LING 261, CHIN 261, PAAS 279.
•  Previous knowledge of Chinese not necessary.

LING 290  Units: 1.5  Hours: 3-0
Writing Systems of the World
Explores the categories and unique characteristics of a sampling of ancient and modern writing systems, 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. Briefly considers the origins of writing and its social context.

LING 297  Units: 1.5  Hours: 3-0
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 309  Units: 1.5  Hours: 3-0
Formerly: 407, 408, 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 derivation 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): Either LING 200 and LING 203, or LING 251 and LING 252.
LING 311  Units: 1.5  Hours: 3-0
Formerly: 410A
Syntax
Study of sentence grammar using analysis, argumentation and theoretical bases of generative syntax.
Note: Credit will be granted for only one of LING 311, LING 410A.
Prerequisite(s): Either LING 203, or all of LING 230, LING 251, LING 252.

LING 312  Units: 1.5  Hours: 3-0
Formerly: 440
Generative Phonology
Description of sound systems using procedures and theoretical bases of generative phonology, including formalisms and study of distinctive features systems. Intended for students who have had an introduction to phonology. 
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
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 or LING 181.

LING 326  Units: 1.5  Hours: 3-0
Formerly: part of 226 and 426
Meaning in Language
Investigates topics in linguistic theories of sentence meaning, including relations between sentences (entailment, presupposition, conversational implicature), tense, aspect, modality, quantification and pronounization.
Note: Credit will be granted for only one of LING 326, LING 226, LING 426.
Prerequisite(s): LING 100A or LING 181.

LING 330  Units: 1.5  Hours: 3-0
Formerly: part of 230
Linguistic Typology
A cross-linguistic survey of syntactic and morphological structures and current approaches to language universals and typology.
Note: Credit will be granted for only one of LING 330, LING 230.
Pre- or Corequisite(s): LING 200 and LING 203.

LING 338  Units: 1.5  Hours: 3-0
Formerly: 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.
LING 374 - LING 401

LING 374  Units: 1.5  Hours: 3-0
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 Practice".
Prerequisite(s):
•  1.5 units of LING course; or
•  permission of the department.

LING 377  Units: 1.5  Hours: 3-0
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 378  Units: 1.5  Hours: 3-0
Contrastive Linguistics
An introduction to the contrastive study of languages with respect to their phonological, morphological, syntactic and semantic systems. Special attention is also given to factors related to language learning situations, with reference to transfer and interference from the mother tongue. The language selected to be compared with English will vary from year to year.
Note: May be taken more than once for credit in different topics.
Prerequisite(s): 1.5 units of LING course.

LING 379  Units: 1.5
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 Aboriginal Language Revitalization.

LING 380  Units: 1.5  Hours: 3-0
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  Units: 1.5  Hours: 3-0
Physiology of Speech Production
The physiology of the human speech production and hearing mechanisms including aspects of the respiratory, laryngeal, pharyngeal, and supralaryngeal articulatory systems, speech-sound processing by the ear, and neurological control systems.
Prerequisite(s):
•  LING 200 and LING 250; or
•  permission of the department.

LING 386  Units: 1.5  Hours: 3-0
Intonation, Rhythm, Stress and Tone
Detailed analysis of the stress and intonation patterns of English and their relationship to grammatical functions; phonetic descriptions of rhythm and voice quality are practised and used to analyze speech in various languages.
Pre- or Corequisite(s): LING 200 or LING 250.

LING 387  Units: 1.5  Hours: 3-0
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
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
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
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
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 those features.

LING 395  Units: 1.5  Hours: 3-0
Sociolinguistics
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): 1.5 units of LING course.

LING 396  Units: 1.5  Hours: 3-0
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
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
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 401  Units: 1.5  Hours: 3-0
Formerly: 201
Salish
An introduction to the linguistic structures of the Salish family of languages, one of the major language families in British Columbia. May focus on a particular Salish language, and will include discussion of oral and written literature and related cultural topics. Language revitalization among Salish language communities will be discussed.
Notes:
•  Credit will be granted for only one of LING 401, LING 201.
•  May be taken more than once for credit with permission of the department to a maximum of 3 units.
Prerequisite(s): Minimum third-year standing.
LING 403  Units: 1.5  Hours: 3-0
Dene (Athabaskan)
An introduction to the linguistic structures of the Dene (Athabaskan) family of languages, one of the major language families of British Columbia. Offers a survey of Dene language structures, and includes discussion of oral and written literature and related cultural topics. Language revitalization among Dene language communities will be discussed.
Prerequisite(s): Minimum third-year standing.
Note: May be taken more than once for credit with permission of the department to a maximum of 3 units.

LING 405  Units: 1.5  Hours: 3-0
Wakashan
An introduction to the linguistic structures of the Wakashan family of languages, one of the major language families in British Columbia. May focus on a particular Wakashan language, and will include discussion of oral and written literature and related cultural topics. Language revitalization among Wakashan language communities will be discussed.
Prerequisite(s): Minimum third-year standing.

LING 411  Units: 1.5  Hours: 3-0
Formerly: 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 204, and
• LING 311 or LING 410A.

LING 412  Units: 1.5  Hours: 3-0
Formerly: 441
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 204, and
• LING 312 or LING 440

LING 420  Units: 1.5  Hours: 3-0
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):
• Either LING 200 and LING 203, or LING 230 and LING 251.

LING 431  Units: 1.5  Hours: 3-0
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
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
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.
Prerequisite(s):
• Either LING 200 and LING 203, or all of LING 230, LING 251, LING 252; or
• permission of the department.

LING 458  Units: 1.5  Hours: 3-0
Also: IED 458
Indigenous Language Mentorship IV
A 100-hour 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 to a maximum of 3 units.

LING 459  Units: 1.5  Hours: 3-0
Also: IED 459
Indigenous Language IV
Teaching and learning of an Indigenous language at the fourth-year level.
Notes:
• May be taken more than once for credit with permission of the department.
• May be counted towards the second language requirement of the BA in Applied Linguistics and of the Diploma in Applied Linguistics.

LING 461  Units: 1.5  Hours: 2-2
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.
Prerequisite(s): LING 204.
Pre- or Corequisite(s):
• LING 311 or LING 410A, and
• LING 312 or LING 440.

LING 470  Units: 1.5  Hours: 3-0
Also: PSYC 470
The Cognitive Neuroscience of Language
Examines how the human brain encodes speech sounds, words, sentence structure, and meaning. Topics may include: neural bases of language development, sign language and language disorders; aphasia studies; functional imaging; electrophysiology.
Note: Credit will be granted for only one of LING 470, LING 370C (if taken in the same topic), PSYC 370C (if taken in the same topic), PSYC 470.
Prerequisite(s): LING 370A.

LING 475  Units: 1.5  Hours: 3-0
Formerly: 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 375.
Prerequisite(s): LING 373 and LING 374.

LING 476  Units: 1.5  Hours: 2-1
Formerly: 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 376 prior to 2004-2005 must consult the instructor to arrange for second language classroom observation.
Prerequisite(s):
• LING 373, and
• declared Honours or Major in Applied Linguistics; or
• permission of the department.
Pre- or Corequisite(s): LING 375 or LING 475.
Grading: INP; standard grade
**LING 482 - MATH 122**

### Mathematics

#### Mathematics

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**Computational Linguistics: An Introduction**

An introduction to computational methods and concepts in natural language processing and analysis. The principle objective is to develop the knowledge to apply these methods and concepts in other areas of linguistics.

**Note:** Credit will be granted for only one of LING 482, LING 481.

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**Experimental Phonetics**

An expansion on topics covered in LING 380. Emphasis is placed on the design of phonetic and phonological experiments using electronic systems and introducing computer technology for speech analysis.

**Note:** Credit will be granted for only one of LING 486, LING 382.

**Prerequisite(s):** LING 204 and LING 380.

**Recommendation(s):** LING 300 recommended prior to LING 486.

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**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.

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<td>LING 497</td>
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**Advanced Topics in Linguistics**

A variable content course in which selected topics in linguistics are pursued.

**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):** All of LING 200, LING 203, LING 204.

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<tr>
<td>LING 499</td>
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**Honours Thesis**

The Honours thesis is based on supervised research carried out by the student during the final year. The recommended style and format of the Honours thesis are the same as those stipulated for graduate theses.

**Prerequisite(s):**
- Minimum fourth-year standing, and
- minimum GPA of 6.0 in 300- and 400-level LING courses; and
- declared Honours in Linguistics.

### MATH

#### Calculus I

**MATH 100**

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; l'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.

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<td>MATH 100</td>
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**Calculus 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.

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<th>Course Code</th>
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<td>MATH 101</td>
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**Calculus for Students in the Social and Biological Sciences**

Calculus of one variable with applications to the social and biological sciences.

**Notes:**
- Credit will be granted for only one of MATH 102, MATH 100, MATH 109.
- See note 4 under "Notes on Course Requirements".

**Prerequisite(s):** One of MATH 120 with a minimum grade of C, Pre-Calculus 12, Principles of Mathematics 12.

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<td>MATH 102</td>
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**Introduction to Calculus**

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; l'Hopital's rule.

**Note:** Credit will be granted for only one of MATH 109, MATH 100, MATH 102.

**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.

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<td>MATH 109</td>
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**Preliminary Calculus**

The essential topics prerequisite for calculus. Elementary functions with emphasis on the general nature of functions; polynomial, rational, exponential, logarithmic, and trigonometric functions.

**Note:** Not open for credit to students with credit in any of MATH 012, MATH 100, MATH 102, MATH 105; and not intended for students who are proficient with the topics covered in Principles of Mathematics 12 or Pre-Calculus 12.

See note 4 under "Notes on Course Requirements".

**Prerequisite(s):** Admission to BEng or BSENG program.

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<th>Course Code</th>
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<tr>
<td>MATH 110</td>
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**Pre-Calculus Mathematics**

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<tr>
<td>MATH 120</td>
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**Logic and Foundations**

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.

**Notes:**
- Credit will be granted for only one of MATH 122, MATH 222, CENG 245.
- Not open for credit to students with credit in any of MATH 122, MATH 422, MATH 423.
- Students with 90% or higher in Principles of Mathematics 12 or Pre-Calculus 12 may request permission to register in the course.

**Prerequisite(s):**
- One of MATH 100, MATH 102, MATH 109, MATH 151; or
- permission of the department.

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<th>Course Code</th>
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<td>MATH 122</td>
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</table>
MATH 151  Units: 1.5  Hours: 3-0
Finite Mathematics
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.
Note: Not open for credit to students with credit in MATH 352 or STAT 350.
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.

MATH 161  Units: 1.5  Hours: 3-0
Formerly: 160A
Mathematics for Elementary School Teachers I
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.
Notes:
• Credit will be granted for only one of MATH 161, MATH 160, MATH 160A.
• Not open for credit to students with more than 1.5 units of MATH courses numbered 100 or higher (excluding MATH 120) without prior permission of the department.
Intended for prospective Elementary Education students only.
Prerequisite(s): One of Foundations of Mathematics 11, Foundations of Mathematics 12, Pre-Calculus 11, Pre-Calculus 12, Principles of Mathematics 11, Principles of Mathematics 12.

MATH 162  Units: 1.5  Hours: 3-0
Formerly: 160B
Mathematics for Elementary School Teachers II
Mental computation and estimation, non-standard length, area and volume. Problem solving is emphasized throughout.
Notes:
• Credit will be granted for only one of MATH 162, MATH 160, MATH 160B.
• 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.
Intended for prospective Elementary Education students only.
Prerequisite(s):
• MATH 161; or
• permission of the department.

MATH 199  Units: 1.5  Hours: 3-0
Formerly: 299
Problem-Solving Seminar
A seminar on solving non-routine challenging mathematical problems that require insight, creativity and ingenuity. Strongly recommended to students who wish to participate in Putnam Mathematics Competitions.
Note: Credit will be granted for only one of MATH 199, MATH 299.
Prerequisite(s): Permission of the department.

MATH 200  Units: 1.5  Hours: 3-0
Calculus II
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.
Note: Credit will be granted for only one of MATH 200, MATH 202, MATH 205.
Prerequisite(s): MATH 101.

MATH 202  Units: 1.5  Hours: 3-0
Intermediate Calculus for CSC and EOS
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.
Notes:
• Credit will be granted for only one of MATH 202, MATH 200, MATH 204.
• Not open to students with credit in MATH 201 or MATH 205.
Prerequisite(s): MATH 101.

MATH 204  Units: 1.5  Hours: 3-0
Calculus IV
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.
Notes:
• Credit will be granted for only one of MATH 204, MATH 300.
• Not open to students with credit in MATH 201.
Prerequisite(s): MATH 200 or MATH 205.

MATH 208  Units: 1.5  Hours: 3-0
Formerly: 140
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, quasiconvex and quasiconcave 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.
Note: 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
Formerly: 233A
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 with a minimum grade of A,
• MATH 151 with a minimum grade of A; or
• permission of the department.

MATH 212  Units: 1.5  Hours: 3-0
Formerly: 233C
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.
### UVIC CALENDAR 2017-18

#### MATH 222 - MATH 346

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<tr>
<td>MATH 222</td>
<td>1.5</td>
<td>3-0</td>
<td>Discrete and Combinatorial Mathematics</td>
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<td>Graph theory, counting, combinatorial arguments and proofs, inclusion-exclusion, partial orders and equivalence relations, deriving and solving recurrence relations, generating functions.</td>
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<td>• MATH 122; or</td>
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<th>MATH 236</th>
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<th>Introduction to Real Analysis</th>
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<td>• permission of the department.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MATH 224</th>
<th>1.5</th>
<th>3-3</th>
<th>Mathematics of Finance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>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.</td>
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<td>Prerequisite(s):</td>
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<td></td>
<td></td>
<td></td>
<td>• One of MATH 100, MATH 102, MATH 109; and</td>
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<td></td>
<td>• one of MATH 151, ECON 245, STAT 260.</td>
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<td>Recommendation(s): Some knowledge of probability recommended.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MATH 248</th>
<th>1.5</th>
<th>3-0</th>
<th>Computer Assisted Mathematics and Physics</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>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.</td>
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<td>Prerequisite(s):</td>
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<td></td>
<td>• MATH 110 or MATH 211; and</td>
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<td></td>
<td>• MATH 200; and</td>
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<td></td>
<td>• CSC 110 or CSC 111.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>MATH 300</th>
<th>1.5</th>
<th>3-0</th>
<th>Advanced Calculus</th>
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</thead>
<tbody>
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<td>Notes:</td>
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<td></td>
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<td></td>
<td>• Credit will be granted for only one of MATH 300, MATH 330A, MATH 334.</td>
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<td></td>
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<td></td>
<td>• Not open for credit to students registered in or with credit in any of MATH 324, MATH 422, or MATH 423.</td>
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<td>Prerequisite(s):</td>
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<td></td>
<td>• MATH 122; or</td>
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<td>• permission of the department.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>MATH 301</th>
<th>1.5</th>
<th>3-0</th>
<th>Complex Variables</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>Theory of functions of a complex variable, analytic functions, elementary functions, integration, power series, residue theory.</td>
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<td>Note: Credit will be granted for only one of MATH 301, MATH 330B, MATH 338, MATH 438.</td>
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<td>Prerequisite(s):</td>
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<td>• MATH 200; and</td>
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<td></td>
<td>• one of MATH 204, MATH 236, MATH 300, MATH 335, MATH 336.</td>
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</tbody>
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<table>
<thead>
<tr>
<th>MATH 302</th>
<th>1.5</th>
<th>3-0</th>
<th>Linear Algebra</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>Vector spaces and linear transformations, the canonical forms, inner product spaces and the spectral theorem.</td>
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<td>Note: Credit will be granted for only one of MATH 311, MATH 333C.</td>
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<td>Prerequisite(s):</td>
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<td></td>
<td>• One of MATH 110, MATH 133, MATH 211, MATH 233A; and</td>
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<td>• MATH 212 or MATH 233C.</td>
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</tbody>
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<table>
<thead>
<tr>
<th>MATH 311</th>
<th>1.5</th>
<th>3-0</th>
<th>Advanced Calculus</th>
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<tbody>
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<td>Notes:</td>
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<td>• Credit will be granted for only one of MATH 300, MATH 330A, MATH 334.</td>
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<tr>
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<td></td>
<td>• Not open for credit to students registered in or with credit in any of MATH 324, MATH 422, or MATH 423.</td>
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<td>Prerequisite(s):</td>
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<td></td>
<td>• MATH 122; or</td>
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<td>• permission of the department.</td>
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<table>
<thead>
<tr>
<th>MATH 312</th>
<th>1.5</th>
<th>3-0</th>
<th>Intermediate Ordinary Differential Equations</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td>Picard-Lindelöf 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.</td>
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<td>Note: Credit will be granted for only one of MATH 342, MATH 323, MATH 324A, MATH 325.</td>
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<td>Prerequisite(s):</td>
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<td>• MATH 110 or MATH 211; and</td>
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<td>• either MATH 200 and MATH 201, or MATH 204; or</td>
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<td></td>
<td>• permission of the department.</td>
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<table>
<thead>
<tr>
<th>MATH 313</th>
<th>1.5</th>
<th>3-0</th>
<th>Introduction to Partial Differential Equations</th>
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<tbody>
<tr>
<td></td>
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<td>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.</td>
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<td>Note: Credit will be granted for only one of MATH 346, MATH 323B, MATH 326.</td>
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<td>Prerequisite(s): One of MATH 323, MATH 323A, MATH 325, MATH 342.</td>
</tr>
</tbody>
</table>
MATH 348  Units: 1.5  Hours: 3-0
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, Gauss), 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 204.

MATH 352  Units: 1.5  Hours: 3-0
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 122 or MATH 151; and
•  MATH 200 or MATH 205.

MATH 362  Units: 1.5  Hours: 3-0
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):
•  One of MATH 122, MATH 212, MATH 233C; 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
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
Formerly: 368A
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
Formerly: 368B
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
Differential Geometry in R³
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
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
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
•  one of MATH 201 or MATH 204, and
•  one of STAT 252, STAT 254, STAT 255, STAT 260.

MATH 379  Units: 1.5  Hours: 3-0
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.
Prerequisite(s):
•  Either MATH 110 with a minimum grade of B or MATH 211 with a minimum grade of B, or MATH 110 or MATH 211 and one of MATH 236, MATH 300, MATH 334; and
•  MATH 200 or MATH 205; and
•  MATH 201 or MATH 204.

MATH 399  Units: 1.5  Hours: 3-0
Advanced Problem-Solving Seminar
A second seminar course on solving non-routine mathematical problems. Strongly recommended to students who wish to participate in Putnam Mathematics Competitions.
Prerequisite(s):
•  MATH 199 or MATH 299; or
•  permission of the department.

MATH 401  Units: 1.5  Hours: 3-0
Complex Analysis
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):
•  One of MATH 301, MATH 330B, MATH 338, MATH 438; and
•  MATH 335 or MATH 336.

MATH 412  Units: 1.5  Hours: 3-0
Formerly: 433C
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 or MATH 333C; and
•  MATH 312 or MATH 333A.

MATH 413  Units: 1.5  Hours: 3-0
Formerly: 433D
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 or MATH 333A.

MATH 422  Units: 1.5  Hours: 3-0
Combinatorial Mathematics
Prerequisite(s):
•  MATH 212 or MATH 233C; 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
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 435</td>
<td>1.5</td>
<td>3-0</td>
<td>Real Analysis II</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td></td>
<td>One of MATH 335, MATH 336, MATH 434; or permission of the department.</td>
</tr>
<tr>
<td>MATH 436</td>
<td>1.5</td>
<td>3-0</td>
<td>Calculus on Manifolds</td>
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<td>Differentiable manifolds and smooth maps. Topics may include embeddings, submersions, fibre bundles, vector bundles, connections, differential forms, differential geometry, Lie groups, transversality.</td>
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<tr>
<td>Prerequisite(s):</td>
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<td>MATH 211 and MAHT 212; and one of MATH 236 and MATH MATH 204, MATH 236 and MATH 300, MATH 335, MATH 336.</td>
</tr>
<tr>
<td>MATH 442</td>
<td>1.5</td>
<td>3-0</td>
<td>Advanced Ordinary Differential Equations</td>
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<td>Rigorous existence and uniqueness theory; qualitative theory of systems of ordinary differential equations including Poincaré and Liapunov stability; periodic orbits; Poincaré-Bendixson theory; bifurcations; stable, unstable and centre manifold theorems. Additional topics may include: averaging and perturbation methods, chaos, Melnikov method, Hamiltonian systems.</td>
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<tr>
<td>Note:</td>
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<td>Credit will be granted for only one of MATH 442, MATH 445A.</td>
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<tr>
<td>Prerequisite(s):</td>
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<td>MATH 300 or MATH 335; and MATH 342; or permission of the department.</td>
</tr>
<tr>
<td>MATH 446</td>
<td>1.5</td>
<td>3-0</td>
<td>Advanced Partial Differential Equations</td>
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<tr>
<td>Note:</td>
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<td>Credit will be granted for only one of MATH 446, MATH 445B.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
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<td></td>
<td>One of MATH 335, MATH 336, MATH 434; and MATH 342; or permission of the department.</td>
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<tr>
<td>MATH 447</td>
<td>1.5</td>
<td>3-0</td>
<td>Nonlinear Programming</td>
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<td>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.</td>
</tr>
<tr>
<td>Note:</td>
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<td>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).</td>
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<tr>
<td>Prerequisite(s):</td>
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<td></td>
<td>MATH 110 or MATH 211; and one of MATH 204, MATH 236, MATH 300, MATH 335.</td>
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<tr>
<td>MATH 449</td>
<td>1.5</td>
<td>3-0</td>
<td>Scientific Computing</td>
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<td>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.</td>
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<tr>
<td>Prerequisite(s):</td>
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<td>MATH 348 or CSC 349A; or permission of the department.</td>
</tr>
<tr>
<td>MATH 451</td>
<td>1.5</td>
<td>3-0</td>
<td>Probability</td>
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<td>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.</td>
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<tr>
<td>Prerequisite(s):</td>
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<td></td>
<td>MATH 348 or CSC 349A; or permission of the department.</td>
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<tr>
<td>MATH 452</td>
<td>1.5</td>
<td>3-0</td>
<td>Stochastic Processes</td>
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<td>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.</td>
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<tr>
<td>Prerequisite(s):</td>
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<td></td>
<td>MATH 352 or STAT 350.</td>
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<tr>
<td>MATH 462</td>
<td>1.5</td>
<td>3-0</td>
<td>Topics in Number Theory</td>
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<td>A selection of topics which may include compositions and partitions, geometry of numbers, rational approximation, distribution of primes, order of magnitude of arithmetical functions, proofs of the Prime Number Theorem and of Dirichlet’s Theorem on primes in arithmetic progressions, continued fractions.</td>
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<tr>
<td>Prerequisite(s):</td>
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<td>MATH 362.</td>
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<tr>
<td>MATH 465</td>
<td>1.5</td>
<td>3-0</td>
<td>Topics in Topology</td>
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<td>Topics chosen from point set topology, introduction to algebraic topology, classification of surfaces, homology theory, and homotopy theory.</td>
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<td>Notes:</td>
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<td>May be taken more than once for credit in different topics with permission of the department.</td>
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<tr>
<td>Prerequisite(s):</td>
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<td>MATH 365; and permission of the department.</td>
</tr>
<tr>
<td>MATH 475</td>
<td>1.5</td>
<td>3-0</td>
<td>Topics in Mathematical Biology</td>
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<td>Possible topics include population modelling, infectious disease dynamics, models of neuronal networks and models of gene regulatory networks.</td>
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<td>Notes:</td>
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<td>May be taken more than once for credit in different topics with permission of the department.</td>
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<tr>
<td>Prerequisite(s):</td>
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<td>Minimum third-year standing; and declared Honours or Major in Mathematics, Statistics, or Biology; and permission of the department.</td>
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<tr>
<td>Recommendation(s):</td>
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<td></td>
<td>Recommended for third- and fourth-year students in Mathematics, Statistics or Biology.</td>
</tr>
<tr>
<td>MATH 477</td>
<td>1.5</td>
<td>3-0</td>
<td>Stochastic Financial Modelling</td>
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<tr>
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<td>Brief review of financial concepts (hedging, arbitrage, options etc.), Martingales, drift and volatility, the binomial model, Brownian motion, the Black-Scholes option pricing formula and some of its extensions.</td>
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<tr>
<td>Prerequisite(s):</td>
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<td>MATH 452.</td>
</tr>
<tr>
<td>Pre- or Corequisite(s):</td>
<td></td>
<td></td>
<td>ECON 433; or permission of the department.</td>
</tr>
<tr>
<td>MATH 490</td>
<td>1.5 or 3.0</td>
<td>3-0</td>
<td>Directed Studies in Mathematics</td>
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<td>May be taken more than once for credit in different topics with permission of the department.</td>
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<tr>
<td>Prerequisite(s):</td>
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<td>Permission of the department.</td>
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<tr>
<td>MATH 492</td>
<td>1.5</td>
<td>3-0</td>
<td>Topics in Applied Mathematics</td>
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<td>Possible topics include population modelling, neural networks, stochastic processes, discrete optimization, actuarial mathematics, calculus of variations, and fluid mechanics.</td>
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<tr>
<td>Notes:</td>
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<td></td>
<td>May be taken more than once for credit in different topics with permission of the department.</td>
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<tr>
<td>Prerequisite(s):</td>
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<td></td>
<td>Minimum third-year standing; and additional prerequisites set by department depending upon topic.</td>
</tr>
</tbody>
</table>
MATH 493  Units: 1.5  Hours: 3-0
Formerly: 491B
Topics in Pure Mathematics
Possible topics include advanced complex analysis, functional analysis, introduction to manifolds, and mathematical logic.
Notes:
• Credit will be granted for only one of MATH 493, MATH 491B (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.

MATH 498  Units: 1.5  Hours: 1.5 - 4.5
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 200  Units: 1.5  Hours: 3-1.5*
Engineering Drawing
* Indicates a 3 hour laboratory taken by students on alternate weeks.
Note: Credit will be granted for only one of MECH 200, ELEC 200.
Prerequisite(s):
• One of CSC 110, CSC 111, CSC 116, and
• MATH 110 or MATH 211.

MECH 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 MECH 220, ENGR 220.
Prerequisite(s): MECH 141 or ENGR 141.
Pre- or Corequisite(s): MATH 200.

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):
• MECH 141 or ENGR 141, and
• CSC 110 or CSC 111, and
• MATH 101, and
• MATH 110 or MATH 211; and
• one of PHYS 110, PHYS 122, PHYS 120.
Pre- or Corequisite(s):
• MATH 200 or MATH 204; or
• permission of the department.

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 a 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, ENGR 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 a 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.
*Indicates a 3 hour laboratory taken by students on alternate weeks.
Prerequisite(s):
• MECH 242; and
• MATH 110 or MATH 211, and
• MATH 201 or MATH 204.

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 manipulators.
Prerequisite(s): MECH 242.
MECH 345 - MECH 443

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
• MECH 240 or MECH 295, 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, ELEC 200, ELEC 299, and all of MECH 220, MECH 285, ELEC 250, ENGR 001, 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
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 psychometrics. 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 design 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
Computer-Aided Design and Engineering
Fundamentals of computer graphics; basic elements of geometric modelling of solids and curved surfaces; advanced topics in engineering drawings; use of integrated CAD/CAM systems. CAD/CAM applications in manufacturing, simulation, manufacturing and computer-aided design, and customization of CAD/CAM systems.
* Indicates a 3-hour laboratory taken by students on alternate weeks.
Prerequisite(s): One of MECH 200, BME 350, ELEC 200, ELEC 299.
Pre- or Corequisite(s): CSC 349A.

MECH 411  Units: 1.5  Hours: 3-0
Planning and Control of Production Systems
Introduction to manufacture and production systems; process engineering and process planning; group technology; forecasting; inventory control; aggregate production planning; material requirements planning; production scheduling; applications of linear programming and artificial intelligence in production process organization.
Prerequisite(s): STAT 254 or STAT 260.
Pre- or Corequisite(s): CSC 349A.

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
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
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
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
• MECH 380 or ELEC 360, and
• MATH 110 or MATH 211.

MECH 443  Units: 1.5  Hours: 3-0
Advanced Thermodynamics
Prerequisite(s): MECH 390.
<table>
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<tr>
<th>Course</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
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<tbody>
<tr>
<td>MECH 444</td>
<td>1.5</td>
<td>3-0</td>
<td>Wind Power Systems&lt;br&gt;History of wind power. Wind resource characteristics. Aerodynamic analysis: steady and unsteady rotor flow models, sectional aerodynamics. Aerelastic response: structural models, degree of freedom reduction, time-domain simulation. Control: objectives, hierarchy, methods, classical and modern approaches. Electrical aspects: generator concepts and control, grid integration. Component design and structural analysis. Wind farms. Levelized cost of energy. 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 220, MECH 330, MECH 345, MECH 380, CSC 349A, ELEC 365.</td>
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<tr>
<td>MECH 445</td>
<td>1.5</td>
<td>3-0</td>
<td>Cryogenic Engineering&lt;br&gt;Cryogenics: definition and applications. Properties of materials at low temperatures, storage systems for liquid cryogens, refrigeration and liquefaction cycles. Bulk and mobile storage systems for hydrogen and natural gas. Overview of gas expansion cycles - Linde, Claude, hybrid - with a focus on natural gas and natural liquefaction. Regenerative cycles, magnetic refrigeration, regenerator analysis. Prerequisite(s): MECH 390 and MECH 395.</td>
</tr>
<tr>
<td>MECH 446</td>
<td>1.5</td>
<td>3-1</td>
<td>Introduction to Ocean Engineering&lt;br&gt;Application of mechanical engineering principles to the mathematical modeling, analysis, simulation and design of floating offshore infrastructure. Ocean wave kinematics: Airy wave theory, wave spectra, sea-state descriptions. Rigid body dynamics: Euler angle transformations, Newton-Euler equations of motion. Hydrostatics: buoyancy, metacentric height, waterplane moments. Hydrodynamics: added mass, drag, Cummins equation for radiation damping, wave excitation. Use of potential flow solvers for the calculation of hydrodynamic coefficients. 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.</td>
</tr>
<tr>
<td>MECH 447</td>
<td>1.5</td>
<td>3-0</td>
<td>Energy Systems&lt;br&gt;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 exergy balance expression. Efficiency metrics, technoeconomics, issues associated with the delivery of energy services such as sustainability, emissions, cost and energy intensity. Prerequisite(s): MECH 390 and MECH 395.</td>
</tr>
<tr>
<td>MECH 450A</td>
<td>1.5</td>
<td>3-0</td>
<td>Special Topics&lt;br&gt;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 MECH 450A, 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.</td>
</tr>
<tr>
<td>MECH 450B</td>
<td>1.5</td>
<td>3-0</td>
<td>Special Topics&lt;br&gt;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 MECH 450B, MECH 450A (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.</td>
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<tr>
<td>MECH 450C</td>
<td>1.5</td>
<td>3-0</td>
<td>Special Topics&lt;br&gt;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 MECH 450C, MECH 450A (if taken in the same topic), MECH 450B (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.</td>
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<tr>
<td>MECH 450D</td>
<td>1.5</td>
<td>3-0</td>
<td>Special Topics&lt;br&gt;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 MECH 450D, 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 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.</td>
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MECH 450F - MECH 481

MECH 450F  Units: 1.5  Hours: 3-0*1
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 will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.

Note:
• Credit will be granted for only one of MECH 450F, 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 455  Units: 1.5  Hours: 3-1-1*1
Instrumentation
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, ELEC 365.

MECH 458  Units: 1.5  Hours: 3-1*1
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 mechatronic systems.

* Indicates a 2 hour laboratory taken by students on alternate weeks. Credit will be granted for only one of 458, 355, 486/405.

Note: Credit will be granted for only one of MECH 458, MECH 355, MECH 405, MECH 486.

Prerequisite(s):
• CSC 110 or CSC 111, and
• ELEC 216 or PHYS 216.

MECH 459  Units: 1.5  Hours: 3-0-1
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 450E (if taken in the same topic).

Prerequisite(s): MATH 201.

MECH 460  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 200, ELEC 299; and
• MECH 380 or ELEC 360; and
• CSC 349A.

MECH 462  Units: 1.5  Hours: 3-0
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, ENGR 402.

Prerequisite(s): STAT 254 or STAT 260.

MECH 464  Units: 1.5  Hours: 1.5-1-3
Mechatronics Design Project
Complete design of a mechatronic product or a system that consists of mechanical, electronics and software components through modelling, simulation, and/or development and testing of a prototype; preparation of design documents, cost analyses and tenders, preparation of final design report and symposium presentation of final design. Weekly seminar series featuring topics related to electronics, software and integrated mechatronics design, IP, project management.

Note: Credit will be granted for only one of MECH 464, MECH 400, ENGR 466.

Prerequisite(s):
• One of MECH 350, BME 350, permission of the Department; and
• MECH 360 or permission of the department; and
• MECH 380 or ELEC 360; and
• MECH 458 or CENG 355; and
• CSC 349A, and
• ENGR 002; and
• declared Major in Mechanical or Major in Electrical or Computer Engineering with Mechatronics Specialization.

Pre- or Corequisite(s):
• MECH 455; or
• permission of the department.

MECH 472  Units: 1.5  Hours: 3-0-1
Introduction to Electron Microscopy

Note: Credit will be granted for only one of MECH 472, MECH 450 (if taken in the same topic).

Prerequisite(s): MECH 285.

MECH 473  Units: 1.5  Hours: 3-0
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 specialty steels; welding; tools and stainless steels; cast irons; superalloys; copper, aluminum, magnesium and titanium alloys; metal matrix composites.

Prerequisite(s): MECH 285.

MECH 475  Units: 1.5  Hours: 3-1
Aircraft Design

Prerequisite(s): MECH 242 and MECH 345.

MECH 481  Units: 1.5  Hours: 3-0
Also: BME 481

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 immunoactivity. 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), BME 481.

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 499 - Technical Project

The technical project provides an opportunity for each student to carry out a design or research project associated with one or more of the higher level courses, under the supervision of a faculty member. The nature of the project selected should be such as to require independent study of current technical literature. When feasible, the design should be assessed in the laboratory. Each student must present a complete report at the end of the term.

Notes:
- Credit will be granted for only one of MECH 499, 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 - 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 - 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 - 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 304 Units: 1.5 Hours: 3-0
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 a maximum of 3 units.
Prerequisite(s):
- Minimum second-year standing; or
- permission of the program.

MEDI 360 Units: 1.5 Hours: 3-0
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
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.
Recommendation(s): MEDI 303 or MEDI 304 recommended prior to MEDI 402.

MEDI 402 Units: 1.5 Hours: 3-0
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 Sicily; 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 451 Units: 1.5 Hours: 3-0
Formerly: part of 450
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 (monastic 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.
Prerequisite(s):
- Minimum third-year standing; or
- permission of the program.

MEDI 452 Units: 1.5 Hours: 3-0
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 majoring 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 director.
Prerequisite(s): Permission of the program.

MEDI 499 Units: 1.5 Hours: 3-0
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 301 Units: 1.5 Hours: 3-0
Introduction to Pharmacology
A general survey of the mechanisms of action and therapeutic application of drugs in the management of human disease. Topics will include how drugs work in the systems of the body, the actions of herbs and evidence for their use and future directions in pharmacology.
Note: Students enrolled in the Island Medical Program must receive permission of the Division Head before registering for this course.
Prerequisite(s):
- One of BIOL 150B, BIOL 184, BIOL 190B, EPHE 241B, PSYC 215A, PSYC 251; or
- permission of the program.

MEDS 325 Units: 1.5 Hours: 3-0
Geriatric Pharmacology
This course will focus on use of drugs in the elderly. This will include mechanisms and rationale behind treatment of conditions associated with advanced age, such as Parkinson Disease, Alzheimer’s Disease, and Cardiovascular Diseases, among others. Additionally, inappropriate drug use in the elderly will be reviewed, both from a clinical and mechanistic standpoint.
Note: An introductory course in animal/human physiology/biology or equivalent, or permission of the course director.

MEDS 410 Units: 1.5 Hours: 3-3
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 program.

MEDS 487 Units: 1.5 or 3.0 Hours: 3-0
Special Topics in Medical Sciences
Topics of current interest in medical science. This year: Neurogenesis, Sensory Processing, Histology and Neuroanatomy.
Note: May be taken more than once for credit in different topics with permission of the program.
Prerequisite(s):
- Permission of the program; and
- additional prerequisites set by department depending upon topic.

MEDS 490 Units: 1.5 or 3.0 Hours: 3-0
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 program.
MEST Mediterranean Studies

Department of Hispanic and Italian Studies
Faculty of Humanities

MEST 300  Units: 1.5  Hours: 3-0
Unity and Diversity in the Mediterranean (in English)
Explores a theme in a variety of geographical contexts from the Paleolithic era to the twenty-first century, allowing students to consider the continuities and discontinuities within the region across time and space.
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s): Minimum second-year standing.

MEST 308  Units: 1.5  Hours: 3-0
Fascism and Authoritarianism in the Mediterranean (in English)
An exploration of the development of fascism and authoritarianism in Italy, Spain, Croatia and Turkey, comparing and contrasting the regimes of Mussolini, Franco and Pavelic to the nationalist state of Kemal Atatürk. Some attention is given to authoritarian and fascist movements elsewhere in the Mediterranean.
Prerequisite(s): Minimum second-year standing.

MEST 310  Units: 1.5  Hours: 3-0
The Portrayal of the Family in Mediterranean Culture (In English)
The significance of the family examined through its portrayals in the culture, religion, literature and art of Spain and Italy. Topics may include "Portrayals of Motherhood," "Portrayals of the Paterfamilias," "Portrayals of Childhood," "The Church Family," "The Family in Art." Some attention is given to authoritarian and fascist movements elsewhere in the Mediterranean.
Prerequisite(s): Minimum second-year standing.

MEST 320  Units: 1.5  Hours: 3-0
Topics in Mediterranean Studies
An exploration of different aspects of the Mediterranean region comprising literary, historical, artistic and media analyses of its rich cultural heritage. Themes examined may include: migration, cultural encounters, religious traditions, travel narratives, Orientalism, warfare, sexuality, conflict.
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s): Minimum second-year standing.

MICR Microbiology

Department of Biochemistry and Microbiology
Faculty of Science

MICR 200A  Units: 1.5  Hours: 3-2
Formerly: part of 200
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 200.
Prerequisite(s):
• Minimum second-year standing, or
• permission of the department.

MICR 200B  Units: 1.5  Hours: 3-2
Formerly: part of 200
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 200.
Prerequisite(s): MICR 200A.

MICR 302  Units: 1.5  Hours: 3-0
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
Formerly: MICR 300
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
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
Formerly: BIOC 405
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
Formerly: part of 301
Microbial Pathogenesis
Bacterial pathogens, emphasis on molecular mechanisms of pathogenesis including antigenic variation, host cell parasitism, evasion of host immune defences, and mimicry of eukaryotic structures.
Note: Credit will be granted for only one of MICR 408, MICR 301.
Prerequisite(s):
• MICR 302 or BIOL 361; and
• MICR 303 or BIOL 360; and
• BIOC 300A and BIOC 300B.

MICR 470  Units: 1.5  Hours: 3-0
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 490I.
- 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):
- Minimum third-year standing, and
- minimum cumulative GPA of 5.0 in the last 15 units of coursework.

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

Biology 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.

MRNE 415 Units: 1.5

Structure and Function in Animals

Structure of marine animals, and their adaptations to the marine environment. Neurobiology, developmental biology, functional morphology and other topics.

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): BIOL 215.

Recommendation(s): BIOL 307 recommended prior to MRNE 412.

MRNE 420 Units: 1.5 or 3.0

Marine Phyology

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.

Prerequisite(s): All of BIOL 215, BIOL 225, BIOL 230.

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 the study of marine ecology and 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): Permission of the department.

Note: 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.

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 436 Units: 1.5 or 3.0

Evolutionary Ecology of Intertidal Organisms

Intertidal ecology and emerging topics in evolutionary theory. Field studies and projects will focus on adaptations of intertidal taxa.

Notes:
- Credit will be granted for only one of MRNE 436, 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.

Recommendation(s): BIOL 307 recommended prior to MRNE 436.

MRNE 437 Units: 1.5

Marine Population Ecology and Dynamics

An analytical approach to the study of marine ecology and 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 systemsatics 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.

Note: 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.bms.bc.ca for more information.

Prerequisite(s): All of BIOL 215, BIOL 225, BIOL 230.
MUS 101A - MUS 180C

MUS 101A - MUS 180C

MUS 101A

Language of Music

An introduction to tonal music, including two-part species counterpoint and the basics of four-part harmony and voice leading.

Prerequisite(s): Permission of the school.

MUS 101B

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):
1. MUS 101A; or
2. Permission of the school.

MUS 105

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.

Open to all students.

MUS 108

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.

MUS 109

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.

MUS 111

Elementary Materials 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.

Credit will be granted for only one of MUS 111, MUS 100, MUS 109, MUS 110A, or MUS 101B.

No background in music required.

Not open to BMus students and cannot be used as a music elective.

MUS 115

Listening to Music

A course for the non-professional, designed to enhance understanding and appreciation of Western music. Assignments include listening to recordings and attendance at selected University concerts.

Credit will be granted for only one of MUS 115, MUS 110, MUS 110A, MUS 110B, MUS 120A, MUS 120B, MUS 220A, or MUS 220B.

No background in music required.

Not open to BMus students and cannot be used as a music elective.

MUS 120A

History of Music I

An introductory survey of music and musical values in society through humanistic, cultural, historical and musical-analytical perspectives. These issues will be explored in the context of music from Antiquity to circa 1580.

Credit will be granted for only one of MUS 120A, MUS 110, or MUS 110A.

MUS 120B

History of Music II

The development of Western art music from circa 1580 to circa 1770.

Credit will be granted for only one of MUS 120B, MUS 110, or MUS 110A.

MUS 131

Introduction to Music Education

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.

Credit will be granted for only one of MUS 131, ME 101.

MUS 140

Individual Tuition

Lessons in instrument or voice.

Prerequisite(s): Admission to BMus program.

MUS 142

Lyric Diction

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.

Credit will be granted for only one of MUS 142, MUS 180C, or MUS 180.
MUS 180D - MUS 256B

MUS 180D  Units: 2.0  Hours: 0-3
Formerly: MUS 180.  
Jazz Ensemble  
Rehearses and performs a wide range of works, both old and new, for jazz ensemble.  
Notes:  
• Credit will be granted for only one of MUS 180D, MUS 180.  
• Open to all students by audition.

MUS 180E  Units: 2.0  Hours: 0-3
Formerly: MUS 180.  
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 180E, MUS 180.  
• Open to all students.

MUS 180F  Units: 2.0  Hours: 0-3
Formerly: MUS 180.  
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 180F, MUS 180.  
• Open to all students by audition.  
Previous choral experience and strong music skills are required.

MUS 180G  Units: 2.0  Hours: 0-3
Formerly: MUS 188.  
University Women’s Choir  
A choral ensemble that rehearse and performs varied repertoire for women’s voices.  
Notes:  
• Credit will be granted for only one of MUS 180G, MUS 188.  
• Open to all students by audition.

MUS 181  Units: 1.0  Hours: 0-3
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 189  Units: 1.5  Hours: 0-3
Vikes Band  
An ensemble that performs and participates at Vikes Varsity events at the Centre for Athletics, Recreation and Special Abilities (CARSAs), and select special events on campus.  
Note: 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 201A  Units: 1.5  Hours: 3-0
Language of Music  
The structural principles, harmonic and contrapuntal practices of tonal music of the late 18th century explored through analysis and composition.  
Prerequisite(s):  
• MUS 101B; or  
• permission of the school.

MUS 201B  Units: 1.5  Hours: 3-0
Language of Music  
A continuation of 201A. The structural principles, harmonic and contrapuntal practices of tonal music of the 19th century explored through analysis and composition.  
Prerequisite(s):  
• MUS 201A; or  
• permission of the school.

MUS 204  Units: 2.0  Hours: 1-1
Group class in Composition I  
Students will work on developing technical skills, and broadening aesthetic and analytic knowledge.  
Prerequisite(s):  
• MUS 105; or  
• permission of the School.

MUS 205  Units: 3.0  Hours: 2-1
Music Composition I  
Individual and class lessons with members of the Music Composition faculty. Compositions for solo and small ensembles. Attendance required at Composition Master Class Seminar.  
Prerequisite(s): Admission to BMus program in Composition and Theory.

MUS 207  Units: 1.5  Hours: 3-0
Music, Science and Computers  
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.  
Recommendation(s): Some musical and/or mathematical background extremely recommended.

MUS 208  Units: 1.5  Hours: 3-0
Popular Music and Society I  
Topic varies and may include 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 department to a maximum of 6 units.  
• Not open to BMus students and cannot be used as a music elective.

MUS 209  Units: 1.5  Hours: 3-0
Topics in Applied Music I  
Topic varies and may include recording and production techniques, the art of performing, commercial music and other related subjects.  
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

MUS 220A  Units: 1.5  Hours: 3-0
History of Music III  
The development of Western music from circa 1770 to circa 1880.  
Note: Credit will be granted for only one of MUS 220A, MUS 313A, MUS 313B, MUS 110, MUS 110B.

MUS 220B  Units: 1.5  Hours: 3-0
History of Music IV  
The development of Western music from circa 1880 to present.  
Note: Credit will be granted for only one of MUS 220B, MUS 313A, MUS 313B, MUS 110, MUS 110B.

MUS 231  Units: 1.5  Hours: 3-0
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.

MUS 237  Units: 1.5  Hours: 3-0
Formerly: ME 207.  
Music in the Elementary School Curriculum  
A study of programs and materials for elementary schools. Some school experience will be expected.  
Note: Credit will be granted for only one of MUS 237, ME 207, ME 403.

MUS 239  Units: 1.5  Hours: 3.0
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 229, ME 221.

MUS 240  Units: 2.0  Hours: 0-1
Individual Tuition  
Lessons in instrument or voice.

MUS 245  Units: 4.0  Hours: 1-1
Seminar in Performance  
Individual tuition and weekly class including discussion of repertoire, pedagogy, and techniques of ensemble performance.  
Prerequisite(s): Admission to BMus program in Performance.  
Recommendation(s): Recommended for students in the School of Music.

MUS 256A  Units: 1.5  Hours: 3.0
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
Introduction to Instrumental and Choral Conducting II  
Continuation of 256A.  
Prerequisite(s):  
• MUS 256A; or  
• permission of the school.
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| **MUS 270A** | 0.5   | 2-1   | Formerly MUS 270. 
Basic Musicianship IIA 
A continuation of 170B. 
Notes: 
- Credit will be granted for only one of MUS 270A, MUS 270. 
- All components must be completed in order to pass the course. 
Prerequisite(s): MUS 101A and MUS 101B; and 
either MUS 170, or MUS 170A and MUS 170B. |
| **MUS 270B** | 0.5   | 2-1   | Formerly MUS 270. 
Basic Musicianship IIB 
A continuation of 270A. 
Notes: 
- Credit will be granted for only one of MUS 270B, MUS 270A. 
- All components must be completed in order to pass the course. 
Prerequisite(s): MUS 270A. |
| **MUS 280A** | 2.0   | 0-5   | 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 280B. 
- Open to all students by audition. |
| **MUS 280B** | 2.0   | 0-5   | 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 280A. 
- Open to all students by audition. |
| **MUS 280C** | 2.0   | 0-3   | 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 280B. 
- Open to all students. |
| **MUS 280D** | 2.0   | 0-3   | Formerly MUS 280. 
Jazz Ensemble 
Rehearses and performs a wide range of works, both old and new, for jazz ensemble. 
Notes: 
- Credit will be granted for only one of MUS 280D, MUS 280A. 
- Open to all students by audition. |
| **MUS 280E** | 2.0   | 0-3   | 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 280A. 
- Open to all students. |
| **MUS 280F** | 2.0   | 0-3   | 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 280C. 
- Open to all students by audition. Previous choral experience and strong music skills are required. |
| **MUS 280G** | 2.0   | 0-3   | Formerly MUS 280. 
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 280F. 
- Open to all students by audition. |
| **MUS 281** | 1.0   | 0-3   | 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** | 1.5   | 0-3   | Vikes Band 
An ensemble that rehearses and performs at Vikes Varsity events at the Centre for Athletics, Recreation and Special Abilities (CARSAM), and select special events on campus. 
Note: 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** | 1.5   | 3-0   | Language of Music 
Prerequisite(s): MUS 101B and MUS 220B; or 
permission of the school. |
| **MUS 301B** | 1.5   | 3-0   | Language of Music 
Prerequisite(s): MUS 301A; or 
permission of the school. |
| **MUS 304** | 2.0   | 0-3   | Group Class in Composition II 
Continuation of 204, further development of compositional technique and analytical skills. 
Prerequisite(s): 
- MUS 204 or MUS 205; or 
- permission of the school. |
| **MUS 305** | 3.0   | 2-1   | Music Composition II 
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. |
| **MUS 306** | 1.5   | 2-4   | 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 307** | 1.5   | 3-0   | 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** | 1.5   | 3-0   | 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** | 1.5   | 3-0   | 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. |
<table>
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<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
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| MUS 316A    | 1.5   | 3-0   | 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. |
| MUS 316B    | 1.5   | 3-0   | 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. |
| MUS 319     | 1.5   | 3-0   | 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. |
| MUS 320     | 1.5   | 3-0   | Formerly: 320A, 320B, 320C.
Topics in World Music
Notes:
- Credit will be granted for only one 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 322     | 1.5   | 3-0   | 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.
Note: May be taken more than once for credit in different topics.
Prerequisite(s):
- MUS 101B and MUS 120A; or
- permission of the school. |
| MUS 323     | 1.5 or 3.0 | 3-0 | 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 MUS 120A; or
- permission of the school. |
| MUS 324     | 1.5 or 3.0 | 3-0 | Music in Canada
The history of music in Canada from the time of Cartier (1534) to the present.
Prerequisite(s):
- MUS 101B and MUS 120A; or
- permission of the school. |
| MUS 325     | 1.5   | 3-0   | 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 one of MUS 325, MUS 325A.
- Open to all students. |
| MUS 328A    | 1.5   | 3-0   | 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 328B    | 1.5   | 3-0   | 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 331     | 1.5   | 3-0   | Brasses
Group instruction in playing orchestral brass instruments. |
| MUS 332     | 1.5   | 3-0   | Woodwinds
An introduction to the pedagogy of teaching woodwind instruments. |
| MUS 333     | 1.5   | 3-0   | Percussion
Group instruction in playing orchestral percussion instruments. |
| MUS 335     | 1.5   | 2-0   | 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.
Note: May be taken more than once for credit to a maximum of 6 units. |
| MUS 336     | 1.5   | 1-0   | Strings: Techniques and Mentoring
Technique for string students and non-string students enrolled in the music education program, including an elementary strings mentoring component.
Note: May be taken more than once for credit to a maximum of 3 units. |
| MUS 337     | 1.5   | 3.0   | Formerly: 337.
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
- MUS 237 or ME 207; and
- admission to BMus program in Secondary Education. |
| MUS 339A    | 1.5   | 3-0   | Formerly: 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    | 1.5   | 3.0   | Formerly: 309B.
Choral Techniques for Middle and Secondary Schools
Practical introductory level choral ensemble experience. Emphasis will be on beginning instrumental methods and techniques.
Note: Credit will be granted for only one of MUS 339B, ME 216, ME 309B.
Prerequisite(s):
- MUS 231 or ME 201; and
- admission to BMus program in Secondary Education. |
| MUS 340     | 2.0   | 0-1   | Individual Tuition
Lessons in instrument or voice.
Prerequisite(s): MUS 240. |
| MUS 345     | 6.0   | 2-1   | Seminar in Performance
Individual tuition, integrated performance seminar, and weekly master class including discussion of repertoire, pedagogy, and techniques of performance.
Recommendation(s): Recommended for students in the School of Music. |
| MUS 347A    | 1.5   | 0-3   | Formerly: 347.
Introduction to Jazz Improvisation
Performance oriented, this course introduces the student to improvisation in the jazz idiom.
Notes:
- Credit will be granted for only one of MUS 347A, MUS 347.
- Knowledge of music rudiments is required. |
MUS 347B  Units: 1.5  Hours: 1.5-0
Introduction to Contemporary Improvisation
Performance-based course designed to expand the perspective of classically trained musicians. Provides the opportunity to explore the creative performance practice of improvisation in contemporary music and to develop skills in listening and responding.
Note: Credit will be granted for only one of MUS 347B, MUS 347.
Prerequisite(s):
- MUS 101B; or
- permission of the school.

MUS 350A  Units: 1.5  Hours: 3-0
Orchestration
Study of instrumentation and orchestration.
Prerequisite(s):
- MUS 120A and MUS 201B; or
- permission of the school.

MUS 350B  Units: 1.5  Hours: 3-0
Orchestration
A continuation of 350A.
Prerequisite(s): MUS 350A

MUS 351  Units: 1.5  Hours: 2-1
Jazz Arranging
The study of basic techniques applicable to arranging/orchestrating for Jazz ensembles.
Prerequisite(s):
- MUS 201B; and
- permission of the school.

MUS 352  Units: 1.5  Hours: 2-1
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
- permission of the school.
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
Basic Conducting
Fundamental conducting techniques as applied to instrumental and vocal music.
Prerequisite(s):
- MUS 120A and MUS 201B; or
- permission of the school.

MUS 356B  Units: 1.5  Hours: 3-0
Basic Conducting
A continuation of 356A.
Prerequisite(s):
- MUS 356A; or
- permission of the school.

MUS 358G  Units: 2.0  Hours: 0-3
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 380G, MUS 388.
- Open to all students by audition.

MUS 380A  Units: 2.0  Hours: 0-5
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
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 391  Units: 1.5  Hours: 3-0
Cross-Cultural and Historical Topics in Music
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.
Note: May be taken more than once for credit in different topics.

MUS 394  Units: 1.5  Hours: 3-0
Baroque Counterpoint
The contrapuntal language of J.S. Bach, his contemporaries and immediate predecessors, explored through writing and analysis.
Prerequisite(s):
- MUS 201B; or
- permission of the school.

MUS 396  Units: 1.5  Hours: 3-0
Techniques in Sound Design
Introduction to the art of sound design and production. Techniques involved include recording, mixing, and mastering.
Prerequisite(s):
- Open to all students.

MUS 398  Units: 1.5  Hours: 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 399  Units: 1.5  Hours: 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 401A  Units: 1.5  Hours: 3-0
Topics in Analysis
The study of a particular analytical approach (e.g., Rameau, Schenker) and its applications to a variety of music.
Note: May be taken more than once for credit in different topics.

MUS 401B  Units: 1.5  Hours: 3-0
Acoustics of Music
The physics of musical sound and the acoustics of musical instruments. Timbre, scales, tuning and temperament. An introduction to psychoacoustical issues.
Prerequisite(s): Experience in singing or playing an instrument recommended.
MUS 401D - Units: 1.5 - Hours: 3-0
Jazz Theory
Theoretical aspects of jazz, including its harmonic and formal characteristics.
Prerequisite(s):
• MUS 201, or
• permission of the school.

MUS 404 - Units: 2.0 - Hours: 1-1
Group Composition III
Continuation of 304; further development of compositional technique and analytical skills.
Prerequisite(s):
• MUS 304 or MUS 305; or
• permission of the school.

MUS 405 - Units: 3.0 - Hours: 2-1
Music Composition III
Individual lessons with members of the Music Composition faculty. Majors will complete and have performed a graduating work of advanced and significant scope.
Note: Attendance at Master Class Seminar required.
Prerequisite(s):
• MUS 305; and
• admission to BMus program in Composition and Theory; or
• permission of the school.

MUS 406A - Units: 1.5 - Hours: 2-2
Advanced Sound Recording Techniques
Advanced study of the theory and practice of sound recording and audio technology, studio techniques and procedures. Includes concert hall acoustics, perceptual coding, high-resolution formats, electro-acoustic measurements, studio design and acoustics, and surround sound microphone techniques. Practical work includes the recording of School of Music concerts, post-production editing and working with the School of Music concert archive.
Prerequisite(s): MUS 306.

MUS 406B - Units: 1.5 - Hours: 0-3
Sound Recording Seminar
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. Practical work includes the recording of School of Music concerts, post-production editing and working with the School of Music concert archive. This course requires the completion of a major recording project.
Prerequisite(s): MUS 406A.

MUS 407 - Units: 3.0 - Hours: 0-3
Computer Music Seminar
Advanced work in computer music, including study of software synthesis and analysis of digitized signals, interactive control of synthesizers, embedded systems and robotics. Extensive work in Max/MSP/jitter.
Prerequisite(s):
• MUS 307; and
• permission of the school.

MUS 411 - Units: 1.5 - Hours: 3-0
The Business of Music
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. Includes music marketing principles and practices related to publicity, touring, distribution, publishing, licensing and synchronization rights, radio, auditions and grant writing.
Notes:
• Credit will be granted for only one of MUS 411, MUS 391 (if taken in the same topic).
• Open to all students.

MUS 421 - Units: 1.5 - Hours: 2.5-0
Selected Topics in Music History
Note: May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
All of MUS 120A, MUS 120B, MUS 201B, MUS 220A, MUS 220B.

MUS 431 - Units: 1.5 - Hours: 3.0
Music Education Seminar II: Current Issues in Music Education
Issues covered in this course may include music for the special learner, global music pedagogy, technology and rhythm syllables. Includes conducting techniques and choral singing. Daily in-class performance is expected.
Pre- or Corequisite(s):
All of MUS 337, MUS 339A, MUS 339B.

MUS 432A - Units: 1.5 - Hours: 3-0
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 song analysis skills and the beginning of a categorized, annotated, retrievable music collection.
Notes:
• Credit will be granted for only one of MUS 432A, MUS 350, ME 400A.

MUS 432B - Units: 1.5 - Hours: 3-0
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 333A; or
• permission of the school.

MUS 432C - Units: 1.5 - Hours: 3-0
Kodály Level 2: 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 3, plus non-school situations; folk and art music. Completion of categorized, annotated, retrievable music collection, suitable for teaching all levels.
Prerequisite(s):
• MUS 432A and MUS 433B; or
• permission of the school.
Corequisite(s): MUS 433C.

MUS 433A - Units: 1.5 - Hours: 3-0
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 3, 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.

MUS 433B - Units: 1.5 - Hours: 3-0
Kodály Level 3: Pedagogy and Music Literature
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 433A, ME 319 (if taken prior to August 2014).
• Knowledge of music rudiments equivalent to RCM Preliminary Rudiments required.
Corequisite(s): MUS 432A.

MUS 433C - Units: 1.5 - Hours: 3-0
Kodály Level 4: 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 3, 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 433C  Units: 1.5  Hours: 3-0
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
Formerly: ME 407
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
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
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: 6.0  Hours: 1-2
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 447  Units: 1.5  Hours: 3-0
Jazz Improvisation
This performance-based advanced improvisation course follows MUS 347A. Participants will explore advanced improvisation including tonal, bi-tonal and free harmonic models, odd meters, contemporary performance practice and World Music models. Work will include transcriptions and regular concert attendance.
Prerequisite(s): MUS 347 or MUS 347A.

MUS 448  Units: 1.0
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
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
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 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 362A - Graduate Seminar in Performance of New Music).
Prerequisite(s):
• MUS 2018, and
• minimum third-year standing, or
• permission of the school.

MUS 462B  Units: 1.5  Hours: 0-3
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 362B Graduate Seminar in Contemporary Composition and Performance).
Prerequisite(s):
• MUS 2018, and
• minimum third-year standing, or
• permission of the school.

MUS 480A  Units: 2.0  Hours: 0-5
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.

MUS 480B  Units: 2.0  Hours: 0-5
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.

MUS 480C  Units: 2.0  Hours: 0-3
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.

MUS 480D  Units: 2.0  Hours: 0-3
Formerly: MUS 480.
Jazz Ensemble
Rehearses and performs a wide range of works, both old and new, for jazz ensemble.
Notes:
• Credit will be granted for only one of MUS 480D, 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.

MUS 480E  Units: 2.0  Hours: 0-3
Formerly: MUS 480.
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 480E, 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.
MUS 480F  Units: 2.0  Hours: 0-3
Formerly: MUS 480.
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 480F, 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.

MUS 480G  Units: 2.0  Hours: 0-3
Formerly: MUS 488.
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 480G, MUS 488.
• 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.

MUS 481  Units: 1.0  Hours: 0-3
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.
Notes:  
• May be taken more than once for credit with permission of the school to a maximum of 4 units.
• Students in a fifth year of study may request permission to register in the course.

MUS 489  Units: 1.5  Hours: 0-3
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.
Note: 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 490  Units: 1.5  Hours: 3-0
Special Studies
With the consent of the School, a student who has demonstrated a capacity for independent work may undertake an individual project.
Note: May be taken more than once for credit.

MUS 499  Units: 3.0  Hours: 3-0
Graduating Projects in Music History
A graduating project consisting of a major essay, study of selected readings, and an oral defence.
Prerequisite(s): Admission to BMus program in History and Literature.

NURS

Nursing

School of Nursing

Faculty of Human and Social Development
All Nursing courses are open to Nursing students only unless otherwise noted in the course description. When a course is oversubscribed, preference will be given to Nursing students who are closest to graduation. Contact the School of Nursing or refer to current timetable for course offerings.

NURS 325  Units: 1.5
Explorations of Nursing Knowledge and Practice
An introduction to socio-historical context and philosophical underpinnings informing nursing practice. Participants explore how they know about practice and how they enact their practice.
Note: Credit will be granted for only one of NURS 325, NURS 320.

NURS 341  Units: 1.5
Professional Practice IV: Nursing Inquiry
Builds on Professional Practice I, II and III. Knowledge for the discipline of nursing is explored as well as various modes of nursing inquiry. Relationships between practice, theory, and research are explored.
Prerequisite(s):
• For College-University Transfer BSN Program Students: 
  • Professional Practice III.

NURS 342  Units: 1.5
Health and Healing VI: Global Health Issues
Study of complex chronic and episodic global health challenges and issues. Emphasis is placed on the role of the nurse as care provider, community organizer/facilitator, educator and advocate within the context of the global society and the changing health care environment. Participants examine emerging health issues and trends further to develop their understanding of nursing practice.

NURS 345  Units: 3.0
Family Nursing
Building on existing knowledge of registered nurses, students have the opportunity to develop an understanding of health-promoting family nursing. Four major domains are explored theoretically and experientially: health, family, relational nursing practice and ethics.
Note: Credit will be granted for only one of NURS 345, NURS 330, NURS 331.

NURS 350  Units: 1.5
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):
• For College-University Transfer BSN Program Students:
  • Health and Healing VI.
• For Post-diploma students:
  • NURS 345.
Corequisite(s):
• For Post-diploma and College-University Transfer BSN Program students (Aurora College and Selkirk College only):
  • NURS 351.
Grading: COM, F.

NURS 351  Units: 1.5
Nursing Practice VI: Promoting Health of Communities and Society
This nursing practice experience 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 College-University Transfer BSN Program students:
  • Health and Healing VI.
• For Post-diploma students:
  • NURS 345.
Corequisite(s):
• For Post-diploma and College-University Transfer BSN Program students (Aurora College and Selkirk College only):
  • NURS 350.
Grading: COM, F.
NURS 300, NURS 390 (if taken in the same topic), NURS 480
Note: Directed to undergraduate nursing students to improve peer review and revision. Scaffolded assignments, drafting, and APA skills and share and improve their writing through abstracts and literature reviews. Students refresh grammar 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 Units: 1.5
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 Units: 1.5
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 Units: 1.5
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.

NURS 431 Units: 1.5
Nursing Practice VII: Engaging in Leadership
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.

Corequisite(s):
• For College-University Transfer BSN Program students (Aurora College & Selkirk College only):
  • NURS 350 and NURS 351.
• For Post-diploma students:
  • All of NURS 345, NURS 350, NURS 351.

NURS 450 Units: 1.5
Nursing Leadership and Management
Enhances participants' understanding of the meaning of leadership and the tasks of management. Worldviews that influence perceptions of health care and health organizations, and current approaches to managing health care will be studied. Nursing leadership in establishing a climate in which quality of care and quality work environments can become a reality are emphasized.

NURS 456 Units: 1.5
Nursing within Communities and Health Systems
Apply nursing knowledge, skills, judgements, and attributes where people interact 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):
• For Post-diploma and College-University Transfer BSN Program students (Aurora College & Selkirk College only):
  • NURS 431.
• For College-University Transfer BSN Program students (Victoria campus):
  • NURS 430.
Grading: COM, F.

NURS 360 - NURS 456

COURSE LISTINGS NURS
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NURS 470</strong></td>
<td>4.5</td>
<td><strong>Consolidated Practice Experience IV</strong>&lt;br&gt;This consolidated practice experience is designed to provide 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.&lt;br&gt;Note: CPE Workshops are required for College-University Transfer BSN Program Students. &lt;br&gt;Prerequisite(s): NURS 370. &lt;br&gt;Grading: COM, F.</td>
</tr>
<tr>
<td><strong>NURS 475</strong></td>
<td>4.5</td>
<td><strong>Consolidated Practice Experience V</strong>&lt;br&gt;This final consolidated practice experience is designed to provide 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.&lt;br&gt;Note: CPE Workshops are required for College-University Transfer BSN Program Students. &lt;br&gt;Prerequisite(s):&lt;br&gt;• For College-University Transfer BSN Program students (Aurora College &amp; Selkirk College only): All of NURS 360, NURS 370, NURS 430, NURS 431. &lt;br&gt;• For College-University Transfer BSN Program students (Victoria only): All of NURS 360, NURS 370, NURS 425, NURS 430, NURS 456. &lt;br&gt;Pre- or Corequisite(s): NURS 470. &lt;br&gt;Grading: COM, F.</td>
</tr>
<tr>
<td><strong>NURS 480</strong></td>
<td>1.5 or 3.0</td>
<td><strong>Special Topics</strong>&lt;br&gt;Topics of current interest or concern to groups of students. &lt;br&gt;Note: May be taken more than once for credit in different topics with permission of the school.</td>
</tr>
<tr>
<td><strong>NURS 481C</strong></td>
<td>1.5</td>
<td><strong>Nursing Practice in Hospice Palliative Care</strong>&lt;br&gt;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 practise with persons living their dying in ways that uphold human dignity and honour human uniqueness.</td>
</tr>
<tr>
<td><strong>NURS 482</strong></td>
<td>1.5</td>
<td><strong>Pharmacological Knowledge for Nursing Practice</strong>&lt;br&gt;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. &lt;br&gt;Note: In the on-campus course, online work complements in-classroom instruction. &lt;br&gt;In the online course, conferencing tools will be used to augment required learning activities, readings and assignments.</td>
</tr>
<tr>
<td><strong>NURS 483</strong></td>
<td>1.5</td>
<td><strong>Teaching and Learning in Nursing Practice</strong>&lt;br&gt;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.</td>
</tr>
<tr>
<td><strong>NURS 484</strong></td>
<td>1.5</td>
<td><strong>Nursing with Aboriginal Peoples in Canada</strong>&lt;br&gt;An introduction to nursing with Aboriginal peoples in Canada. Through the use of storytelling, self-reflection, and a critical framework, learners are invited to enter into a “dialogue” with Aboriginal and non-Aboriginal individuals, community members and nurses. Together, as a community of learners, we will explore the essential concepts of relationship and power as related to working with Aboriginal people and communities. Major themes covered in the course materials and through course interactions are: an examination of colonialism in Canada and its impacts, particularly on Aboriginal people, cultural safety, ethical relationships, and the responsibilities of nurses working in this context. While primarily focused on nursing, all human service professionals are invited to participate in this course.</td>
</tr>
<tr>
<td><strong>NURS 487</strong></td>
<td>1.5</td>
<td><strong>Health Care Law</strong>&lt;br&gt;Designed to allow students to develop an understanding of the legal 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. &lt;br&gt;Note: Credit will be granted for only one of NURS 487, HINF 330, HINF 491 (if taken in the same topic).</td>
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<tr>
<td><strong>NURS 488</strong></td>
<td>1.5</td>
<td><strong>Gendering Health Care Practices in Nursing</strong>&lt;br&gt;An examination of how societal constructions of women's and men's characteristics, roles, and positions produce taken-for-granted notions about femininities and masculinities in health care. We move beyond biomedical knowledge to analysis of how social, political, and economic conditions shape people’s lives and their experiences of health, exploring the interrelationships of power, knowledge, and society to better understand gendering health care practices in nursing.</td>
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<tr>
<td><strong>NURS 490</strong></td>
<td>1.5 or 3.0</td>
<td><strong>Directed Studies</strong>&lt;br&gt;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 designee before students are permitted to register.&lt;br&gt;Note: May be taken more than once for credit in different topics with permission of the school. &lt;br&gt;Offered as resources permit.</td>
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<tr>
<td><strong>NURS 491</strong></td>
<td>4.5</td>
<td><strong>Nursing Practice VIII: Transitions</strong>&lt;br&gt;The nursing practice experience 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. &lt;br&gt;Note: CPE Workshops are required for College-University Transfer BSN Program Students.&lt;br&gt;Prerequisite(s): NURS 470. &lt;br&gt;Pre- or Corequisite(s): NURS 475. &lt;br&gt;Grading: COM, F.</td>
</tr>
<tr>
<td><strong>NURS 493A</strong></td>
<td>1.5</td>
<td><strong>Community Health Nursing</strong>&lt;br&gt;The theoretical and conceptual foundations of community health nursing practice. Students will 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.&lt;br&gt;Prerequisite(s):&lt;br&gt;• For College-University Transfer BSN Program students: completion of Term 6; and &lt;br&gt;• permission of the department.</td>
</tr>
<tr>
<td><strong>NURS 493C</strong></td>
<td>1.5</td>
<td><strong>Lived Experience of Health in Aging</strong>&lt;br&gt;The complex nature of aging and health. Students will explore the 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. In addition, nursing theory and issues related to the delivery of care with older persons will be examined. Health promotion and nursing practice, and environments that support healthy aging are integral to this course.&lt;br&gt;Prerequisite(s):&lt;br&gt;• For College-University Transfer BSN Program students: completion of Term 6; and &lt;br&gt;• permission of the department.</td>
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</table>
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.
Note: 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.

PAAS
Pacific and Asian Studies
Department of Pacific and Asian Studies
Faculty of Humanities
Language Course Restriction: Students who have completed courses in a language at UVic or through transfer credit will not be granted credit for subsequent courses at a lower level in the same language.

Chinese Language Courses:
The department takes two criteria into account in considering advanced placement for students entering Chinese language courses at the University. One of these is competence in spoken Modern Standard Chinese (Mandarin), the other is ability to read and write the Chinese script.
For purposes of course placement, the department normally defines “native speakers” as those who are native speakers of any of these languages and who are also able to read at least simple materials (i.e., at the middle school level) written in the Chinese script.
“Native speakers” who lack a good foundation in spoken Mandarin or whose reading ability in Chinese is not equivalent to that of a high school graduate should register in PAAS 212 or 313; others should register in PAAS 410.

Indonesian and Japanese Language Courses:
Courses marked * are not available to native speakers of Indonesian and Japanese. A native speaker is normally defined in this context as a person who has received sufficient instruction to be literate in the language. Students who are not native speakers, but who do have some knowledge of the language, will be placed at an appropriate level, however, such students may, at the instructor’s discretion, be required to withdraw or to transfer to a higher level course should their language proficiency prove greater than was initially supposed.

PAAS 100 - Units: 1.5 Hours: 3-0
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
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
War and Peace in Asia and the Pacific
Traces the history of the wars in the region in relation to the religions, cultures, and political economies of Asian Pacific countries.

PAAS 105 - Units: 1.5 Hours: 3-0
Pacific and Asia Today
Introduces peoples and countries across the region through a study of contemporary events and issues reported in the public media. Provides students with the foundations of a historical and theoretical context, exercising critical skills in encountering media reports of environmental disasters, political crises, social movements and new technological developments.

PAAS 118 - Units: 3.0 Hours: 6-1
Formerly: 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
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
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.

PAAS 130, JAPA 100, JAPA 100A, JAPA 100B, JAPA 149.

PAAS 138 - Units: 3.0 Hours: 6-0
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
Formerly: CHIN 201A
Premodern 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
Formerly: CHIN 212B
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 212B.

PAAS 152 Units: 1.5 Hours: 3-0
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
Formerly: SEA 210A, half of 201
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 210A.

PAAS 171 Units: 1.5 Hours: 3-0
Formerly: SEA 201B, half of 201
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
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
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
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.
Prerequisite(s): PAAS 100 or PACI 210.

PAAS 202 Units: 1.5 Hours: 3-0
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
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 205 Units: 1.5 Hours: 3-0
Indigenous Peoples of the Indo-Pacific Region
Introduces the societies, cultures and life conditions of local populations on the fringes of the great traditions.

PAAS 206 Units: 1.5 Hours: 3-0
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
Ghost Stories and Spirits
Ghost stories 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
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
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 212 Units: 1.5 Hours: 3-0
Formerly: CHIN 220
Elementary Mandarin for Speakers of Other Chinese Languages
Trains speakers of non-Mandarin forms of Chinese (e.g., Cantonese) in the sounds of Mandarin Chinese. Students will learn the pinyin romanization system; concentration will be on listening and speaking. Characters will be introduced in both full and simplified variants.
Notes:
• Credit will be granted for only one of PAAS 212, CHIN 220, CHIN 410.
• Not open to non-native speakers.
Limited to 35 students per section.
Knowledge of a non-Mandarin form of Chinese is required prior to taking this course.
Prerequisite(s): Permission of the department.

PAAS 218 Units: 3.0 Hours: 6-1
Formerly: 111, CHIN 150
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 111, CHIN 150, CHIN 200, CHIN 200A, CHIN 200B.
• Not open to native speakers.
Prerequisite(s):
• One of PAAS 110 with a minimum grade of B, PAAS 118 with a minimum grade of B, CHIN 149 with a minimum grade of B, or
• permission of the department.

PAAS 220 Units: 1.5 Hours: 3-1
Formerly: SEA 200A, half of 200
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, SEA 200, SEA 200A.
• Limited to 25 students per section.
Prerequisite(s):
• PAAS 121 with a minimum grade of B or SEA 100B with a minimum grade of B, or
• permission of the department.
PAAS 221  Units: 1.5  Hours: 3-1
Formerly: SEA 200B, half of 200
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 prepares 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 SEA 200A; or
• permission of the department.

PAAS 235  Units: 1.5  Hours: 3-0
Supplementary Japanese
Intended for students who require supplementary practice in grammar, speaking, listening, reading and writing before going on to 300-level and higher Japanese language courses.
Prerequisite(s):
• PAAS 230 with a minimum grade of B- or JAPA 249 with a minimum grade of B; or
• permission of the department.

PAAS 238  Units: 3.0  Hours: 6-0
Formerly: 131, JAPA 150
Intensive Beginner Japanese II
Continuation of 138 for those students who intend to practise their listening comprehension, speaking and reading 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):
• One of PAAS 130 with a minimum grade of B, PAAS 138 with a minimum grade of B, JAPA 100A with a minimum grade of B, JAPA 100B with a minimum grade of B, JAPA 149 with a minimum grade of B, or
• permission of the department.

PAAS 262  Units: 1.5  Hours: 3-0
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 influences and contributions of 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
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
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
Formerly: PACI 325
Social and Economic Change in the Pacific Region
Studies theories of long-term social and economic change. Particular focus is on political economy and world-systems theories and how models represent and explain change in the region. Case material is drawn from Southeast Asia, Oceania and East Asia.
Note: Credit will be granted for only one of PAAS 300, PACI 325.
Prerequisite(s): PAAS 200 or PACI 290.

PAAS 301  Units: 1.5  Hours: 3-0
Formerly: PACI 390
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 or PACI 290.

PAAS 302  Units: 1.5  Hours: 3-0
Formerly: PACI 392
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 literary texts.
Note: Credit will be granted for only one of PAAS 302, PACI 392.
Prerequisite(s): PAAS 200 or PACI 290.

PAAS 303  Units: 1.5  Hours: 3-0
Fieldwork Methods for the Study of Asia-Pacific Communities
Reviews and applies field methods used to describe and analyze social patterns and experiences of people in or from the Asia-Pacific region.
Prerequisite(s):
• PAAS 200; or
• permission of the department.

PAAS 304  Units: 1.5  Hours: 3-0
Asian Aesthetics and Poetics
Theories of 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
Religions of East Asia
A survey of the religious literature and systematic thought of the traditions of China, Japan, and Korea, including Confucianism, Daoism, Buddhism and Shinto.
Prerequisite(s): PAAS 204 or RS 200.

PAAS 306  Units: 1.5  Hours: 3-0
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.
Prerequisite(s): PAAS 204 or RS 200.

PAAS 307  Units: 1.5  Hours: 3-0
Globalization and Religion
Examines how scholars account for simultaneous worldwide religious resurgence and economic globalization.
Prerequisite(s):
• Minimum third-year standing; or
• permission of the department.

PAAS 309  Units: 1.5  Hours: 3-0
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.

PAAS 318  Units: 3.0  Hours: 6-1
Formerly: 210 and 211, CHIN 249A and B, 249, 300
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 249A, CHIN 249B, CHIN 300.
• Not open to native speakers.
Prerequisite(s):
• One of PAAS 111 with a minimum grade of B, PAAS 218 with a minimum grade of B, CHIN 150 with a minimum grade of B, CHIN 200 with a minimum grade of B; or
• permission of the department.
PAAS 338  Units: 3.0  Hours: 6-0
Formerly: PAAS 230, JAPA 249
Intermediate Japanese
A continuation of PAAS 238, aimed at a balanced development of listening, speaking, reading, and writing skills.
Note: Credit will be granted for only one of PAAS 338, PAAS 230, JAPA 249, JAPA 250, JAPA 300, JAPA 311.
Prerequisite(s):
• PAAS 131 with a minimum grade of B or PAAS 238 with a minimum grade of B, or
• permission of the department.

PAAS 340  Units: 1.5  Hours: 3-0
Formerly: PAAS 330, JAPA 311, JAPA 250
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.
Note: Credit will be granted for only one of PAAS 340, PAAS 330, JAPA 250, JAPA 311.
Prerequisite(s):
• One of PAAS 230 with a minimum grade of B+, PAAS 235 with a minimum grade of B+, PAAS 338 with a minimum grade of B+, JAPA 249 with a minimum grade of B+, or
• permission of the department.

PAAS 341  Units: 1.5  Hours: 3-0
Formerly: PAAS 331, JAPA 312
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.
Note: Credit will be granted for only one of PAAS 341, PAAS 331, JAPA 312, JAPA 400.
Prerequisite(s):
• One of PAAS 330 with a minimum grade of B+, PAAS 340 with a minimum grade of B+, PAAS 338 with a minimum grade of B+, JAPA 311 with a minimum grade of B+, or
• permission of the department.

PAAS 342  Units: 1.5  Hours: 3-0
Formerly: PAAS 332, JAPA 313
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.
Note: Credit will be granted for only one of PAAS 342, PAAS 332, JAPA 313, JAPA 400.
Prerequisite(s):
• One of PAAS 330 with a minimum grade of B+, PAAS 340 with a minimum grade of B+, PAAS 338 with a minimum grade of B+, JAPA 249 with a minimum grade of B+, or
• permission of the department.

PAAS 343  Units: 1.5  Hours: 3-0
Formerly: PAAS 333, JAPA 314
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):
• One of PAAS 330 with a minimum grade of B+, PAAS 340 with a minimum grade of B+, JAPA 250 with a minimum grade of B+, JAPA 311 with a minimum grade of B+, or
• permission of the department.

PAAS 344  Units: 1.5  Hours: 3-0
Formerly: PAAS 334, JAPA 315
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):
• One of PAAS 330 with a minimum grade of B+, PAAS 340 with a minimum grade of B+, JAPA 250 with a minimum grade of B+, JAPA 311 with a minimum grade of B+, or
• permission of the department.

PAAS 345  Units: 1.5  Hours: 3-0
Formerly: PAAS 336
Japanese through Popular Culture
Note: Credit will be granted for only one of PAAS 345, PAAS 336.
Prerequisite(s):
• One of PAAS 330 with a minimum grade of B+, PAAS 340 with a minimum grade of B+, JAPA 250 with a minimum grade of B+, JAPA 311 with a minimum grade of B+, or
• permission of the department.

PAAS 351  Units: 1.5  Hours: 3-0
Formerly: PACI 319B
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.

PAAS 353  Units: 1.5  Hours: 3-0
Survey of Classical Chinese Literature
Introduces major topics and masterpieces in classical Chinese literature from earliest times to the Ming (1368-1644) and Qing (1644-1911) dynasties. Studies Western and Chinese views of this literature, including introductions and commentaries for the novels. Readings are in English; Chinese versions of all primary texts, and secondary texts where applicable, are available.
Note: Credit will be granted for only one of PAAS 354, CHIN 304.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

PAAS 355  Units: 1.5  Hours: 3-0
Formerly: CHIN 305
Modern Chinese Literature and Society 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 (1911-1949) China, a time of political turmoil and intellectual and cultural innovation. Supplementary readings in social and political history and literary criticism. Chinese versions of primary texts and secondary texts where applicable, may be available.
Note: Credit will be granted for only one of PAAS 355, CHIN 305.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

PAAS 356  Units: 1.5  Hours: 3-0
Formerly: CHIN 306
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; or
• permission of the department.

PAAS 357  Units: 1.5  Hours: 3-0
Formerly: CHIN 324
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; or
• permission of the department.
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<tr>
<th>PAAS 358</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<tr>
<td>Formerly: CHIN 325</td>
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<tr>
<td>Screening the Nation: Nationalism, Ideology, and Politics in Chinese Cinema</td>
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<tr>
<td>Provides a theoretical and thematic framework for the analysis of films from Mainland China from the 1930s to the present.</td>
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<tr>
<td>Note: Credit will be granted for only one of PAAS 358, CHIN 325.</td>
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<td>Prerequisite(s): • Minimum second-year standing; or • permission of the department.</td>
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<th>PAAS 364</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<tbody>
<tr>
<td>Formerly: PACI 328A</td>
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<tr>
<td>Indigenous Societies and Colonial Relations in Oceania</td>
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<tr>
<td>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.</td>
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<tr>
<td>Note: Credit will be granted for only one of PAAS 364, PACI 328A.</td>
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<tr>
<td>Prerequisite(s): Minimum second-year standing.</td>
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<th>PAAS 370</th>
<th>Units: 1.5</th>
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<tr>
<td>Formerly: SEA 302B</td>
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<tr>
<td>Indonesian and Pacific Literature</td>
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<tr>
<td>Explores the literatures of Indonesia and the Pacific Islands in the context of social change and popular cultural expression.</td>
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<td>Note: Credit will be granted for only one of PAAS 370, SEA 302, SEA 302B.</td>
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<td>Prerequisite(s): • Minimum third-year standing; or • permission of the department.</td>
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<th>PAAS 372</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<tbody>
<tr>
<td>Formerly: SEA 324</td>
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<tr>
<td>Southeast Asian Cinema</td>
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<tr>
<td>A survey of trends in the cinemas of Indonesia, Thailand, the Philippines and Malaysia/Singapore.</td>
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<td>Note: Credit will be granted for only one of PAAS 372, SEA 324.</td>
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<td>Prerequisite(s): • Minimum third-year standing; or • permission of the department.</td>
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<th>PAAS 373</th>
<th>Units: 1.5</th>
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<tbody>
<tr>
<td>Also: THEA 328</td>
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<tr>
<td>The Theatre of Indonesia</td>
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<tr>
<td>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.</td>
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<td>Note: Credit will be granted for only one of PAAS 373, SEA 320, THEA 328.</td>
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<td>Prerequisite(s): • Minimum third-year standing; or • permission of the department.</td>
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<th>PAAS 380</th>
<th>Units: 1.5</th>
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<tr>
<td>Formerly: PACI 321A</td>
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<tr>
<td>Japanese Economy, Politics and Culture</td>
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<tr>
<td>Examines various aspects of the history of Japan, with emphasis on the complex, changing relationship of the economy, politics, culture and ideas.</td>
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<td>Note: Credit will be granted for only one of PAAS 380, PACI 321, PACI 321A.</td>
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<td>Prerequisite(s): • Minimum third-year standing; or • permission of the department.</td>
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<th>PAAS 385</th>
<th>Units: 1.5</th>
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<tr>
<td>Formerly: JAPA 359</td>
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<tr>
<td>Love and Sex in Japanese Culture</td>
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<tr>
<td>A seminar on love and sex in Japan, from earliest times to the present day. Readings include fiction, drama and poetry.</td>
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<td>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).</td>
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<td>Prerequisite(s): • Minimum third-year standing; or • permission of the department.</td>
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<th>PAAS 386</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<tbody>
<tr>
<td>Formerly: JAPA 302A and 302B</td>
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<tr>
<td>Premodern Japanese Literature in Translation</td>
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<tr>
<td>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.</td>
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<td>Note: Credit will be granted for only one of PAAS 386, JAPA 302A, JAPA 302B.</td>
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<td>Prerequisite(s): • Minimum third-year standing; or • permission of the department.</td>
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<th>PAAS 388</th>
<th>Units: 1.5</th>
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<tbody>
<tr>
<td>Formerly: JAPA 303A and 303B</td>
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<tr>
<td>Modern Japanese Literature in Translation</td>
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<tr>
<td>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.</td>
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<tr>
<td>Note: Credit will be granted for only one of PAAS 388, JAPA 303A, JAPA 303B.</td>
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<td>Prerequisite(s): • Minimum second-year standing; or • permission of the department.</td>
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<th>PAAS 393</th>
<th>Units: 1.5</th>
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<tbody>
<tr>
<td>Formerly: JAPA 324A</td>
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<tr>
<td>Humanism in Japanese Cinema to the 1960s</td>
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<tr>
<td>Humanism and Existentialism as sources of social critique in post-war Japanese film, through the late 1960s.</td>
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<td>Note: Credit will be granted for only one of PAAS 393, JAPA 324A.</td>
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<td>Prerequisite(s): • Minimum second-year standing; or • permission of the department.</td>
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<th>PAAS 394</th>
<th>Units: 1.5</th>
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<tbody>
<tr>
<td>Also: THEA 312</td>
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<tr>
<td>Pre-modern Japanese Theatre</td>
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<tr>
<td>Surveys Japanese theatre history from earliest times until the nineteenth century. Introduction to the major forms, styles and theory of traditional Japanese theatre, including no, kyogen, bunraku and kabuki.</td>
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<td>Note: Credit will be granted for only one of PAAS 394, JAPA 320A, THEA 312.</td>
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<td>Prerequisite(s): • Minimum second-year standing; or • permission of the department.</td>
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<th>PAAS 397</th>
<th>Units: 1.5 or 3.0</th>
<th>Hours: 3-0</th>
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<tbody>
<tr>
<td>Field School in Pacific and Asian Studies</td>
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<tr>
<td>Opportunity for students from PAAS and the broader university community to gain direct, thematic research experience in Asia.</td>
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<tr>
<td>Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 6 units.</td>
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<th>PAAS 398</th>
<th>Units: 1.5</th>
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<tr>
<td>Also: LING 396</td>
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<tr>
<td>Sociolinguistic Issues in Japanese</td>
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<tr>
<td>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.</td>
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<td>Note: Credit will be granted for only one of PAAS 399, JAPA 396, LING 396.</td>
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<td>Prerequisite(s): Minimum second-year standing.</td>
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<th>PAAS 400</th>
<th>Units: 1.5</th>
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<tr>
<td>Formerly: PACI 490A, half of 490</td>
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<tr>
<td>Advanced Research Seminar</td>
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<tr>
<td>Leads to the research and writing of a major paper on a theme relevant to the Asia-Pacific.</td>
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<td>Note: Credit will be granted for only one of PAAS 400, PACI 490A.</td>
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<td>Prerequisite(s): One of PAAS 300, PAAS 301, PAAS 302, PAAS 304, PACI 325, PACI 390, PACI 392.</td>
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<th>PAAS 403</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<tr>
<td>Capitalist Economy and the Asia-Pacific</td>
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<tr>
<td>Examines the current situation of the Asia-Pacific under the rubric of globalization with an emphasis on the changing nature of capitalist economy as well as relevant theories.</td>
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<td>Prerequisite(s): Minimum third-year standing.</td>
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<td>Course Code</td>
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<td>PAAS 404</td>
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<td>PAAS 406</td>
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<td>PAAS 432</td>
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<tr>
<td>PAAS 445</td>
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PAAS 455 - Units: 1.5  Hours: 3-0
Formerly: CHIN 307
Authors in Contemporary Chinese Literature in Translation
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 will be available.
Note: Credit will be granted for only one of PAAS 455, CHIN 307.
Prerequisite(s): PAAS 302 or PACI 392.

PAAS 456 - Units: 1.5  Hours: 3-0
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, CHIN 304, CHIN 305, CHIN 306, PACI 390, PACI 392.

PAAS 457 - Units: 1.5  Hours: 3-0
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: 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, or permission of the department.
• For native speakers: No prerequisites.

PAAS 458 - Units: 1.5  Hours: 3-0
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: 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, or permission of the department.
• For native speakers: No prerequisites.

PAAS 459 - Units: 1.5  Hours: 3-0
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.
Notes:
• Credit will be granted for only one of PAAS 459, CHIN 461.
• Open to native speakers of Chinese.
Prerequisite(s): PAAS 311 with a minimum grade of B or CHIN 349B with a minimum grade of B.

PAAS 464 - Units: 1.5  Hours: 3-0
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.

PAAS 465 - Units: 1.5  Hours: 3-0
Formerly: PACI 414
Seminar on Oceania
Analysis of theoretical questions on Oceania.
Note: Credit will be granted for only one of PAAS 465, PACI 414.
Prerequisite(s): Minimum third-year standing.

PAAS 466 - Units: 1.5  Hours: 3-0
Redistribution, Reciprocity and Commodity Relations in Pacific Societies
A seminar on theory of pre-market and market economies, with particular reference to the societies of the Asia-Pacific region.
Prerequisite(s): Minimum third-year standing.

PAAS 467 - Units: 1.5  Hours: 3-0
Formerly: PACI 411
Seminar on Indonesia
Analyses the history and politics of 20th-century Indonesia.
Note: Credit will be granted for only one of PAAS 467, PACI 411.
Prerequisite(s):
• Minimum third-year standing, or permission of the department.

PAAS 468 - Units: 1.5  Hours: 3-0
Formerly: JAPA 358
Seminar in Japanese Language, Literature and Culture
Examines selected topics related to Japanese language, literature or cultural studies.
Note: 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.

PAAS 480 - Units: 1.5  Hours: 3-0
Formerly: JAPA 324B
Trends in Japanese Cinema, 1960 to Present
Topics in cinema.
Note: Credit will be granted for only one of PAAS 480, JAPA 324B, THEA 312, THEA 394, THEA 412 (if taken prior to May 2011).
Prerequisite(s):
• Minimum third-year standing; or permission of the department.

PAAS 484 - Units: 1.5  Hours: 3-0
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, or permission of the department.

PAAS 485 - Units: 1.5 or 3.0  Hours: 3-0
Formerly: JAPA 358
Seminar in Japanese Language, Literature and Culture
Examines selected topics related to Japanese language, literature or cultural studies.
Note:
• 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.

PAAS 486 - Units: 1.5  Hours: 3-0
Also: THEA 412
Formerly part of 394
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 shingeki, angura and butô. Drama, dance and other performance arts are discussed.
Note: Credit will be granted for only one of PAAS 486, JAPA 320A, THEA 312, THEA 394, THEA 412 (if taken prior to May 2011).
Prerequisite(s):
• Minimum third-year standing; or permission of the department.

PAAS 487 - Units: 1.5  Hours: 3-0
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; or permission of the department.

PAAS 488 - Units: 1.5  Hours: 3-0
Japanese Fantasy
Fantasy in Japanese literature, film, anime and science fiction.
Prerequisite(s):
• Minimum third-year standing; or permission of the department.

PAAS 493 - Units: 1.5  Hours: 3-0
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.
Prerequisite(s):
• PAAS 204 or RS 208; or permission of the department.

PAAS 494 - Units: 1.5  Hours: 3-0
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.
PAAS 495 Units: 1.5 Hours: 3-0
Special 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; or
- permission of the department.

PAAS 496 Units: 1.5 Hours: 3-0
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; or
- permission of the department.

PAAS 497 Units: 1.5 Hours: 3-0
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; or
- permission of the department.

PAAS 499 Units: 1.5 Hours: 3-0
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, half of 490

PHIL 173 Units: 1.5 Hours: 3-0
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; appraising the value of contentious ideas; examining the development of knowledge in the sciences and engineering.

PHIL 201 Units: 1.5 Hours: 3-0
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
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 203A Units: 1.5 Hours: 3.0 or 2-1
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, Heraclitus, 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 205 Units: 1.5 Hours: 3-0
Introduction to Arabic Philosophy
The fertile period of philosophy that followed directly upon the late ancient Greek philosophy. Topics may include: the way in which the Arabs inherited the ancient legacy, a problem-oriented approach to the thought of such major Muslim thinkers such as Farabi, Avicenna, Ghazali, and Averroes; comparison of Arab philosophy with medieval Latin and later European philosophy.

PHIL 208 Units: 1.5 Hours: 3-0
Introduction to Arabic Philosophy
The fertile period of philosophy that followed directly upon the late ancient Greek philosophy. Topics may include: the way in which the Arabs inherited the ancient legacy, a problem-oriented approach to the thought of such major Muslim thinkers such as Farabi, Avicenna, Ghazali, and Averroes; comparison of Arab philosophy with medieval Latin and later European philosophy.

PHIL 209 Units: 1.5 Hours: 3-0 or 2-0-1
Philosophy and First Nations Thought
An introduction to philosophical issues raised in and by First Nations thought. Topics may include: the nature and scope of First Nations wisdoms; relations between First Nations thought and Western philosophy.

PHIL 210 Units: 1.5 Hours: 3.0 or 2-1
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
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
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 222A Units: 1.5 Hours: 3-0
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 222B Units: 1.5 Hours: 3-0
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 222, 225 (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 223 Units: 1.5 Hours: 3-0
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 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 protect; 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
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
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
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.

PHIL 240 Units: 1.5 Hours: 3-0
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?

PHIL 245 Units: 1.5 or 3.0 Hours: 3-0 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 250 Units: 1.5 Hours: 3-0 or 2-0-1
Formerly: part of 250
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.

PHIL 252 Units: 1.5 Hours: 3-0 or 2-1
Formerly: 250
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.

PHIL 260 Units: 1.5 Hours: 3-0
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?

PHIL 261 Units: 1.5 Hours: 3-0
Formerly: 214
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.

PHIL 269 Units: 1.5 or 3.0 Hours: 3-0 or 2-0-1
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?

PHIL 270 Units: 1.5 Hours: 3-0
Formerly: 215
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.

PHIL 290 Units: 1.5 or 3.0 Hours: 3-0 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
Plato
A philosophical examination of one or more Platonic dialogues.

PHIL 303 Units: 1.5 Hours: 3-0
Aristotle
A study of one or more of the philosophical writings of Aristotle.

PHIL 305A Units: 1.5 Hours: 3-0
Formerly: half of 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.

PHIL 305B Units: 1.5 Hours: 3-0
Formerly: half of 305
Later Medieval Philosophy
An examination of medieval philosophical thought in the 13th and 14th centuries.

PHIL 306 Units: 1.5 Hours: 3-0
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-à-vis their theories of perception and knowledge.

PHIL 308 Units: 1.5 Hours: 3-0
Formerly: half of 310
The Empiricists
Studies the major writings of Locke, Berkeley and Hume, with emphasis on metaphysics and epistemology.

PHIL 310 Units: 1.5 Hours: 3-0
Formerly: half of 310
Kant
Studies Kant's epistemology and metaphysics, principally as presented in The Critique of Pure Reason.

PHIL 311 Units: 1.5 Hours: 3-0
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.

PHIL 314 Units: 1.5 Hours: 3-0
19th-Century Philosophy
An examination of one or more figures or themes in 19th-century Philosophy.

PHIL 316 Units: 1.5 Hours: 3-0
Philosophy of Science
An examination of the philosophy of science with particular emphasis on contemporary work.
PHIL 316  Units: 1.5  Hours: 3-0  
**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  Units: 1.5  Hours: 3-0  
**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; Hermeneutics 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  Units: 1.5  Hours: 3-0  
**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 331  Units: 1.5  Hours: 3-0  
**Biomedical Ethics**
An investigation into various ethical issues that arise in the delivery of health care. Lectures and discussions on topics such as informed consent, abortion, human experimentation, euthanasia, reproductive technologies, the health-care professional/client relationship. Emphasis on the ability to apply theoretical concepts to actual situations.
Note: May not be counted towards upper-level requirements in Honours or Major programs in Philosophy.

PHIL 333  Units: 1.5  Hours: 3-0  
**Also: ES 314**
**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  Units: 1.5  Hours: 3-0  
**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  Units: 1.5  Hours: 3-0  
**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  Units: 1.5  Hours: 3-0  
**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.

PHIL 338  Units: 1.5  Hours: 3-0  
**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):
- PHIL 232; or
- permission of the department.

PHIL 339  Units: 1.5  Hours: 3-0  
**Theories of Justice**
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.
Prerequisite(s):
- PHIL 236 or 4.5 units of PHIL courses; or
- permission of the department.

PHIL 351  Units: 1.5  Hours: 3-0  
**Epistemology**
An examination of current issues and theories in epistemology. Topics may include: theories of justification; internalism/externalism; foundationalism; coherentism; 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  Units: 1.5  Hours: 3-0  
**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  Units: 1.5  Hours: 3-0  
**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  Units: 1.5  Hours: 3-0  
**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  Units: 1.5  Hours: 3-0  
**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  Units: 1.5  Hours: 3-0  
**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.
Note: 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).
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<th>COURSE LISTINGS PHIL</th>
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<td>PHIL 362 - PHIL 428</td>
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<th>PHIL 362</th>
<th>Units: 1.5</th>
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<tr>
<td>Formerly: 342A</td>
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<tr>
<td>Philosophy of Mind</td>
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<td>An intermediate survey of philosophy of mind, focusing on two broad questions: what are the natures 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)?</td>
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<td>Note: Credit will be granted for only one of PHIL 362, PHIL 342A</td>
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<th>PHIL 370</th>
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<td>Formerly: 304A</td>
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<tr>
<td>Theoretical Logic</td>
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<tr>
<td>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 metaphysics of formal logic, relating the syntactic theories and the semantic theories, developed. Topics may include consistency, compactness, soundness and completeness.</td>
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<tr>
<td>Note: Credit will be granted for only one of PHIL 370, PHIL 304A</td>
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<td>• PHIL 203 or MATH 122; or</td>
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<td>Formerly: part of 304B</td>
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<tr>
<td>Logic</td>
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<tr>
<td>Studies a particular branch of formal logic. Topics may include set theory, incompleteness and undecidability, modal or other non-classical logics.</td>
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<td>Note: Credit will be granted for only one of PHIL 371, PHIL 304B</td>
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<tr>
<td>Also: MATH 375</td>
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<tr>
<td>Philosophy of Mathematics</td>
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<tr>
<td>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.</td>
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<td>Note: Credit will be granted for only one of PHIL 375, MATH 375.</td>
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<tr>
<td>Prerequisite(s): One of PHIL 203, PHIL 304A, PHIL 370, MATH 122, MATH 360.</td>
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<tr>
<th>PHIL 379</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<tr>
<td>Also: GRS 379</td>
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<tr>
<td>Formerly: 381</td>
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<tr>
<td>Early Greek Thought</td>
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<tr>
<td>Examination of early Greek thought as embodied in Hesiod and Presocratics such as Heracles, 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.</td>
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<td>Notes:</td>
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<tr>
<td>• Credit will be granted for only one of PHIL 379, PHIL 381, GRS 379, CLAS 379; or</td>
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<tr>
<td>• Does not presuppose a background in either Greek and Roman studies or Philosophy.</td>
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<td>Recommendation(s): Minimum third-year standing recommended.</td>
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<tr>
<th>PHIL 383</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<tbody>
<tr>
<td>Also: GRS 380</td>
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<tr>
<td>The Life and Times of Socrates</td>
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<tr>
<td>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.</td>
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<tr>
<td>Note: Credit will be granted for only one of PHIL 383, GRS 380, CLAS 380</td>
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<tr>
<td>Recommendation(s): Minimum third-year standing recommended.</td>
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<tr>
<th>PHIL 390</th>
<th>Units: 1.5-3.0</th>
<th>Hours: 3-0</th>
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<tbody>
<tr>
<td>Topics in Philosophy</td>
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<tr>
<td>Investigations of a selected philosophical topic.</td>
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<tr>
<td>Note: May be taken more than once for credit in different topics with permission of the department.</td>
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<tr>
<td>Prerequisite(s):</td>
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<tr>
<td>• 6 units of PHIL courses; or</td>
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<td>• permission of the department.</td>
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<tr>
<th>PHIL 391</th>
<th>Units: 1.5 or 3.0</th>
<th>Hours: 3-0</th>
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<tbody>
<tr>
<td>Directed Studies in Philosophy</td>
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<tr>
<td>Under the supervision of a faculty member and with the approval of the Chair of the department.</td>
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<tr>
<td>Note: Credit will be granted for only one of PHIL 391, PHIL 348 (if taken in the same topic).</td>
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<tr>
<td>Prerequisite(s):</td>
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<tr>
<td>• 4.5 units of PHIL courses; or</td>
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<td>• permission of the department.</td>
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<tr>
<th>PHIL 420</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<tbody>
<tr>
<td>Advanced Topics in Philosophy of Science</td>
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<tr>
<td>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.</td>
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<td>Note: Credit will be granted for only one of PHIL 420, PHIL 222A, PHIL 320.</td>
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<td>Prerequisite(s):</td>
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<tr>
<td>• PHIL 356; or</td>
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<td>• permission of the department.</td>
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<tr>
<th>PHIL 424</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<tr>
<td>Advanced Studies in Ancient Philosophy</td>
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<tr>
<td>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.</td>
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<tr>
<td>Prerequisite(s):</td>
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<tr>
<td>• One of PHIL 301, PHIL 303, PHIL 307; or</td>
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<td>• permission of the department.</td>
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<tr>
<th>PHIL 425</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<tr>
<td>Advanced Studies in Plato</td>
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<tr>
<td>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.</td>
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<tr>
<td>Prerequisite(s):</td>
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<tr>
<td>• One of PHIL 301, PHIL 303, PHIL 307; or</td>
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<tr>
<td>• permission of the department.</td>
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<tr>
<th>PHIL 426</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<tr>
<td>Major Figures in Ancient Philosophy</td>
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<tr>
<td>Investigation of one or more major figures in ancient philosophy.</td>
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<tr>
<td>Note: Credit will be granted for only one of PHIL 426, PHIL 490 (if taken in the same topic).</td>
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<td>Prerequisite(s):</td>
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<tr>
<td>• One of PHIL 301, PHIL 303, PHIL 307; or</td>
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<td>• permission of the department.</td>
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<tr>
<th>PHIL 427</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<tbody>
<tr>
<td>Advanced Studies in Early Modern Philosophy</td>
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<tr>
<td>Investigation of a central topic or major figure in the early modern period of philosophy (1500-1799).</td>
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<tr>
<td>Note: Credit will be granted for only one of PHIL 427, PHIL 490 (if taken in the same topic).</td>
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<td>Prerequisite(s):</td>
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<td>• One of PHIL 306, PHIL 308, PHIL 309; or</td>
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<td>• permission of the department.</td>
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<tr>
<th>PHIL 428</th>
<th>Units: 1.5</th>
<th>Hours: 3-0</th>
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<tr>
<td>Advanced Studies in Rationalism and the Enlightenment</td>
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<tr>
<td>Investigation of key concepts and historical figures of Rationalism broadly defined as a set of positions and doctrines, all of which tend to involve the ideas that in some sense the universe is rational. May include metaphysical, epistemological or ethical aspects of the thought of some of rationalism’s most famous and influential proponents from the enlightenment period of the seventeenth and eighteenth centuries: René Descartes, Nicolas Malebranche, Baruch Spinoza and G. W. Leibniz.</td>
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<td>Note: Credit will be granted for only one of PHIL 428, PHIL 490 (if taken in the same topic).</td>
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<td>Prerequisite(s):</td>
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<td>• One of PHIL 306, PHIL 308, PHIL 309; or</td>
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<td>• permission of the department.</td>
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<td>Course Code</td>
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<td>PHIL 429</td>
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<td>PHIL 430</td>
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<td>PHIL 440</td>
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**PHYS 102A** Units: 1.5 Hours: 3-3

Introductory algebra-based mechanics. Life Science applications.

Notes:
- Not open for credit to students registered in or with credit in any of PHYS 102, PHYS 110, PHYS 112, PHYS 120, PHYS 122
- Students intending to take further courses in Physics should consider PHYS 110 or PHYS 120 rather than PHYS 102A.

Recommendation(s): One of MATH 100, MATH 102, MATH 109 recommended prior to or in conjunction with PHYS 102A.

**PHYS 102B** Units: 1.5 Hours: 3-3

Formerly: part of PHYS 102

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
Formerly: Part of 112, 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.
Note: 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 111  Units: 1.5  Hours: 3-3
Formerly: Part of 112, 125
Introductory Physics II
Heat engines; harmonic motion; wave motion; geometric and wave optics; modern physics. Engineering and Physical Science applications.
Note: Students with credit in PHYS 112, PHYS 125, or PHYS 130 may not take PHYS 111 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 130.
Prerequisite(s): PHYS 110.
Pre- or Corequisite(s): One of MATH 100, MATH 102, MATH 109.
Recommendation(s): MATH 101 strongly recommended in conjunction with PHYS 111.

PHYS 120  Units: 1.5  Hours: 3-3
Physics I
Particle dynamics and curvilinear motion; force and momentum; rotational dynamics and angular momentum; kinetic and potential energy; special relativity.
Notes:
• Credit will be granted for only one of PHYS 120, PHYS 110, PHYS 122.
• Credit will be granted for only PHYS 112 (3.0 units) or two of PHYS 120, PHYS 130, PHYS 122, PHYS 125 (1.5 units each).
An enriched course in physics primarily intended for students who are planning a career in Physics or Astronomy. This course may include tours of local physics research institutions.
Prerequisite(s): One of PHYS 102, Pre-Calculus 12 with a minimum grade of B (73%) and Physics 12 with a minimum grade of B (73%), Principles of Mathematics 12 with a minimum grade of B (73%) and Physics 12 with a minimum grade of B (73%).
Pre- or Corequisite(s): MATH 100 or MATH 109.

PHYS 130  Units: 1.5  Hours: 3-3
Physics II
Rotational and simple harmonic motion; wave motion and sinusoidal waves; reflection, refraction, and interference; optics; sound and the Doppler effect; de Broglie waves and the hydrogen atom; radioactivity and principles of quantum mechanics.
Notes:
• Credit will be granted for only one of PHYS 130, PHYS 111, PHYS 125.
• Credit will be granted for only PHYS 112 (3.0 units) or two of PHYS 120, PHYS 130, PHYS 122, PHYS 125 (1.5 units each).
An enriched course in physics primarily intended for students who are planning a career in Physics or Astronomy. This course may include tours of local physics research institutions.
Prerequisite(s): PHYS 120.
Pre- or Corequisite(s): MATH 101.

PHYS 210  Units: 1.5  Hours: 3-0
Also: EOS 210
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 210, EOS 210.
Prerequisite(s):
• One of PHYS 110, PHYS 112, PHYS 120, PHYS 122, and MATH 101.

PHYS 215  Units: 1.5  Hours: 3-3
Introductory Quantum Physics
Prerequisite(s):
• Either PHYS 110 and PHYS 111, or PHYS 120 and PHYS 130.
Pre- or Corequisite(s): MATH 204.

PHYS 216  Units: 1.5  Hours: 3-3-1
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, ELEC 216.
Prerequisite(s):
• Either PHYS 110 and PHYS 111, or PHYS 112, or PHYS 120 and PHYS 130, or PHYS 122 and PHYS 125.
Pre- or Corequisite(s): MATH 200.

PHYS 229  Units: 1.5  Hours: 2-4
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, and MATH 101.

PHYS 248  Units: 1.5  Hours: 3-3
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 250  Units: 1.5  Hours: 3-0
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
This course is intended primarily to aid students who have transfer credit in physics to satisfy their first-year physics requirements.
Prerequisite(s): Permission of the department.

PHYS 303  Units: 1.5  Hours: 3-0
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: Not available for credit in Physics and Astronomy Programs.
Prerequisite(s): Minimum third-year standing.
PHYS 313  Units: 1.5  Hours: 3-0
Formerly: part of 413B
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 MATH 342.

PHYS 314  Units: 1.5  Hours: 3-0
Formerly: part of 413B
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): PHYS 323 and MATH 342.
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): MATH 342.

PHYS 321B  Units: 1.5  Hours: 3-1
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 346.

PHYS 323  Units: 1.5  Hours: 3-1-1
Formerly: part of 413A
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): MATH 342.

PHYS 325  Units: 1.5  Hours: 3-3
Optics
Reflection and refraction at plane and spherical surfaces, thin lenses, lens aberrations, optical instruments, interference, diffraction, polarization.
Prerequisite(s):
• PHYS 216 or ELEC 216; and
• MATH 204; and
• MATH 110 or MATH 211.
Recommendation(s): MATH 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): MATH 342.

PHYS 328  Units: 1.5  Hours: 3-0
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.
Prerequisite(s): All of PHYS 323, PHYS 326, MATH 346.

PHYS 340  Units: 1.5  Hours: 3-0-1
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 112, PHYS 120 and PHYS 130; or
• permission of the department.
Pre- or Corequisite(s):
• Either EOS 225, or two of MATH 200, MATH 201, MATH 204, MATH 205; and
• one of CHEM 245, PHYS 217, PHYS 317.

PHYS 342  Units: 1.5  Hours: 3-1
Formerly: 242, CSC 242
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 112, or PHYS 120 and PHYS 130; and
• CSC 110 or CSC 115; and
• MATH 200.

PHYS 410  Units: 1.5  Hours: 3-0
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, MATH 211, MATH 346.
Recommendation(s): One of PHYS 313, PHYS 314, PHYS 323, and PHYS 326 recommended prior to PHYS 410.

PHYS 411  Units: 1.5  Hours: 3-0
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 346.

PHYS 415  Units: 1.5  Hours: 3-0
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):
• PHYS 321B and MATH 346; or
• permission of the department.

PHYS 421  Units: 1.5  Hours: 3-0
Statistical Mechanics
Boltzmann, Bose-Einstein and Fermi-Dirac statistics.
Note: Intended for Honours students.
Prerequisite(s):
• PHYS 217 or PHYS 317; and
• all of PHYS 321B, PHYS 323, MATH 301, MATH 346.

PHYS 422  Units: 1.5  Hours: 3-0
Electromagnetic Theory
Potential theory, Maxwell’s equations, electromagnetic waves.
Note: Intended for Honours students.
Prerequisite(s): All of PHYS 326, MATH 301, MATH 346.
PHYS 423  
**Quantum Mechanics II**
Further development of the theory and applications, angular momentum, linear vector spaces, perturbation theory, scattering.
*Note:* Intended for Honours students.
*Pre-requisite(s):* All of PHYS 321A, PHYS 323, MATH 301, MATH 346.

PHYS 424  
**Particle Physics**
Topics in particle physics.
*Note:* 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.
*Pre-requisite(s):*  
- PHYS 423; or  
- permission of the department.

PHYS 425  
**Topics in Electronics Instrumentation**
Applications of electronics in physics instrumentation.
*Pre-requisite(s):*  
- PHYS 214 and PHYS 216; and  
- one of MATH 301, MATH 330B, MATH 438.

PHYS 426  
**Fluid Mechanics**
Flow kinematics, vorticity, the Navier-Stokes equations, Bernoulli's theorem, irrotational flow, viscous flow, dynamic similarity. Application to aeronodynamics, water waves, low Reynolds number (very viscous) flow and other selected topics.
*Pre-requisite(s):* PHYS 217 and PHYS 321A.  
*Pre- or Corequisite(s):* MATH 346.

PHYS 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 the department to determine when the course is offered.
*Pre-requisite(s):* PHYS 321A and PHYS 326.  
*Pre- or Corequisite(s):* MATH 346.

PHYS 429A  
**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.
*Pre-requisite(s):*  
- Minimum fourth-year standing; or  
- permission of the department.

PHYS 432  
**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.
*Pre-requisite(s):* Either PHYS 313 or PHYS 314, or BME 335 and MATH 204.

PHYS 438  
**Solid State Physics II**
Nanoscale physics, including semiconductor nanostructures and devices, nanomagnetism and spintronics, nanophotonics, molecular electronics, and superconductivity.
*Pre-requisite(s):* PHYS 328.

PHYS 441  
**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.
*Note:* Credit will be granted for only one of PHYS 441, EOS 431.
*Pre-requisite(s):*  
- Either EOS 225, or two of MATH 200, MATH 201, MATH 204, MATH 205; and  
- one of PHYS 102, PHYS 102A and 102B, PHYS 110 and PHYS 111, PHYS 112, PHYS 120; or  
- permission of the department.

PHYS 460A  
**Colloquium I**
Weekly physics and astronomy colloquium.
*Grading:* COM, N, F

PHYS 460B  
**Colloquium II**
Weekly physics and astronomy colloquium.
*Grading:* COM, N, F

PHYS 480  
**Advanced 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.
*Pre-requisite(s):* Permission of the department.

POLI 101  
**Department of Political Science**
**Faculty of Social Sciences**

**POLI 101**  
Units: 1.5  
*Hours:* 3-0-1
Formerly: half of 100

**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**  
Units: 1.5  
*Hours:* 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**  
Units: 1.5  
*Hours:* 3-0-1
Formerly: 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**  
Units: 1.5  
*Hours:* 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**  
Units: 1.5  
*Hours:* 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**  
**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.  
**Units:** 1.5  
**Hours:** 3-0-1

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**POLI 217**  
**Development and Political Change**  
An introduction to development and political change facing the Global South (Africa, Latin America and Asia), including theories and themes such as modernization and dependency, colonialism and post-colonialism, nation-state building, democratization and authoritarianism.  
**Units:** 1.5  
**Hours:** 3-0-1

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**POLI 233**  
**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.  
**Units:** 1.5  
**Hours:** 3-0-1

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**POLI 240**  
**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.  
**Units:** 1.5  
**Hours:** 3-0-1

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**POLI 263**  
**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.  
**Units:** 1.5  
**Hours:** 3-0-1

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**POLI 300A**  
**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).  
**Units:** 1.5  
**Hours:** 3-0

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**POLI 300B**  
**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.  
**Units:** 1.5  
**Hours:** 3-0

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**POLI 300C**  
**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.  
**Units:** 1.5  
**Hours:** 3-0

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**POLI 305**  
**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.  
**Units:** 1.5  
**Hours:** 3-0

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**POLI 306**  
**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.  
**Units:** 1.5  
**Hours:** 3-0

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**POLI 308**  
**Nationalism and Citizenship**  
Debates about the role of nationalism and citizenship in contemporary political theory, in state-building, and in relation to other forms of identity politics (e.g. gender, class, sexual orientation, race, culture, religion).  
**Units:** 1.5  
**Hours:** 3-0

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**POLI 309**  
**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.  
**Units:** 1.5  
**Hours:** 3-0

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**POLI 311**  
**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.  
**Units:** 1.5  
**Hours:** 3-0

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**POLI 313A**  
**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.  
**Units:** 1.5  
**Hours:** 3-0

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**POLI 318**  
**Political Theory in Canada**  
A treatment of key political conceptions in Canada. Topics covered include the political conceptions of such figures as Pierre Elliott Trudeau, L. Prem Watsa, and Donald MacNeil.  
**Units:** 1.5  
**Hours:** 3-0

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**POLI 319**  
**Issues in Comparative Politics**  
An analysis of contemporary issues in comparative politics.  
**Note:** May be taken more than once for credit in different topics with permission of the department.  
**Units:** 1.5  
**Hours:** 3-0

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**POLI 320**  
**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.  
**Note:** Credit will be granted for only one of POLI 320, POLI 320A, POLI 320B.  
**Units:** 1.5  
**Hours:** 3-0

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**POLI 321**  
**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.  
**Note:** Not open to students registered in or with credit in POLI 339.  
**Units:** 1.5  
**Hours:** 3-0

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**POLI 323**  
**Issues in Politics**  
A lecture class in selected contemporary political issues.  
* 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.  
**Units:** 1.5  
**Hours:** 3-0*
POLI 327  Units: 1.5  Hours: 3-0
Formerly: 317
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.
Note: Credit will be granted for only one of POLI 327, POLI 317 (if taken in Sep 2013 - Apr 2014).

POLI 328  Units: 1.5  Hours: 3-0
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.
Note: Credit will be granted for only one of POLI 328, POLI 349 (if taken in the same topic).

POLI 329  Units: 1.5  Hours: 3-0
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.

POLI 332  Units: 1.5  Hours: 3-0
Formerly: 332B
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.
Note: Credit will be granted for only one of POLI 332, POLI 332B, POLI 450.

POLI 335  Units: 1.5  Hours: 3-0
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.

POLI 336  Units: 1.5  Hours: 3-0
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.
Note: Credit will be granted for only one of POLI 336, POLI 404.

POLI 338  Units: 1.5  Hours: 3-0
Approaches to Political Analysis (Seminar Course)
An examination of the ways in which political analysts generalize about politics. Addresses types of theory in the discipline (normative, empirical, public choice, critical discourse) and the assumptions that underpin them.
Note: Required for Honours students in their third year, recommended for Major students, but not recommended as a general elective.

POLI 339  Units: 1.5  Hours: 3-0
The Empirical Analysis of Politics (Seminar Course)
Survey of expert research methods used in political science, focusing on the practical application of qualitative and quantitative methods. Includes the operationalization and measurement of variables; case studies and comparative case studies; interview research; univariate and bivariate statistics; sampling and surveys; and regression.
Notes:  
• Credit will be granted for only one of POLI 339, POLI 337.
• Required for Honours students, preferably in their third year; recommended for students considering graduate studies in Political Science or Public Administration.

POLI 340  Units: 1.5  Hours: 3-0
International Studies
The historical development of the modern state system with reference to its changing social, economic, and political environments, and to related theoretical developments.

POLI 341  Units: 1.5  Hours: 3-0
The United Nations and Global Issues
Examines the structure and functioning of the United Nations and its agencies as they address key contemporary global issues. Attention will be paid to the practice of diplomacy in the UN, the secretariat, and the roles of states and non-state actors. Issues may include human rights and humanitarian intervention, economic globalization and human development, climate change and other environmental problems, disarmament and health.

POLI 343  Units: 1.5  Hours: 3-0
International Organization
The nature and function of international and regional governmental and non-governmental organizations.

POLI 344  Units: 1.5  Hours: 3-0
International Political Economy
The politics of international economic relations in trade, investment, finance and macroeconomic policies from a variety of theoretical perspectives.

POLI 345  Units: 1.5  Hours: 3-0
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.

POLI 346  Units: 1.5  Hours: 3-0
Formerly: 446
Canadian Foreign Policy
The foreign policy-making process in Canada, including alternative explanations of specific policies.
Note: Credit will be granted for only one of POLI 346, POLI 446.

POLI 347  Units: 1.5  Hours: 3-0
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.

POLI 348  Units: 1.5  Hours: 3-0
International Security
Conceptual and practical issues of security in international politics, including such topics as: the causes of violent international conflict, maritime security, non-military threats to security, national security policies, co-operative international security, and alternatives to state-centred security.
Prerequisite(s):  
• POLI 240, or  
• permission of the department.

POLI 349  Units: 1.5  Hours: 3-0
Issues in International Politics
An analysis of contemporary issues in international politics.
Note: May be taken more than once for credit in different topics with permission of the department.

POLI 350  Units: 1.5  Hours: 3-0
Also: ADMN 311
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. Focuses 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 POLI 350, ADMN 311, HSD 404.

POLI 351  Units: 1.5  Hours: 3-0
Public Policy Analysis
A practical approach to the concepts and conduct of public policy analysis, including problem definition and policy design, the application of analytical techniques and issues in public policy implementation.

POLI 357  Units: 1.5  Hours: 3-0
Formerly: 457
Canadian Environmental Politics
An examination of political factors shaping development and implementation of Canadian environmental policy.
Note: Credit will be granted for only one of POLI 357, POLI 457.

POLI 360  Units: 1.5  Hours: 3-0
Canadian Federalism and Public Policy
An examination of the constitutional, political, social, economic, and cultural bases of Canadian federalism, the dynamics of contemporary intergovernmental relations, and the impact of the federal system on public policy.

POLI 363  Units: 1.5  Hours: 3-0
Indigenous Politics in Canada
An examination of various political issues affecting the peoples of Canada’s First Nations with particular attention to land claims, self-government and the political organization of Canada’s indigenous peoples. Relevant comparisons with other countries and international perspectives will also be included.
POLI 364 Units: 1.5 Hours: 3-0
Canadian Public Policy
An analysis of the Canadian policy-making process, using case studies to examine alternative theoretical perspectives.

POLI 365 Units: 1.5 Hours: 3-0
British Columbia Political Economy
An examination of the political and economic development of the province, its political orientations and social cleavages, and party system.

POLI 366 Units: 1.5 Hours: 3-0
Canadian Political Economy
An advanced introduction to the distinctive debates and problems of Canadian Political Economy, in historical analysis and in contemporary policy concerns. Topics covered include state formation and the role of the state; staples; capital and class analyses; theories of economic development, trade, and dependency; gender, aboriginal, and anti-racist analyses; and political ecology.

POLI 367 Units: 1.5 Hours: 3-0
The Politics of Race in Canada
Examination of contemporary issues of race politics in Canada. Topics include the effects of political ideas about race, the role of Canadian state in organizing and managing racial differences, and modes of political resistance.
Note: Credit will be granted for only one of POLI 367, POLI 369 (if taken in the same topic).

POLI 369 Units: 1.5 Hours: 3-0
Issues in Canadian Politics
An analysis of contemporary issues in Canadian politics.
Note: May be taken more than once for credit in different topics with permission of the department.

POLI 370 Units: 1.5 Hours: 3-0
The Politics of Surveillance
Examination of contemporary forms of surveillance in Canada and globally. Considers the roots of surveillance, its impact on our lives, and the legal, political, social and technical strategies to challenge its effects.
Note: Credit will be granted for only one of POLI 370, POLI 319 (if taken in the same topic).

POLI 371 Units: 1.5 Hours: 3-0
Chinese Politics
An exploration of the political, economic and social transformations in China, with a focus on China's ongoing reform efforts away from state socialism and toward a capitalist market economy. Topics include political institutions, the role of the state in the economy, social stratification including gender relations, resistance, civil society and democracy.

POLI 372 Units: 1.5 Hours: 3-0
Latin American Politics
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.
Note: Credit will be granted for only one of POLI 372, POLI 319 (if taken in the same topic).

POLI 373 Units: 1.5 Hours: 3-0
African Politics
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.

POLI 374 Units: 1.5 Hours: 3-0
Urban Politics in China
Transition and transformation of post-Mao China through the lens of urban politics. A historical and multi-disciplinary approach used to analyze problems of power, governance, and socio-cultural change. Topics may include: the modern history of Chinese cities (imperial, republican, socialist), space economies (regionalism), migration, urban governance, urban inequality, land, urban society and culture, and urban social movements.

POLI 375 Units: 1.5 Hours: 3-0
Gender Politics in China
A multidisciplinary approach to gender dynamics in China. Helps students appreciate and understand the politics of representation of Chinese women over time and space; the change in Chinese women's roles and status amidst modern socioeconomic development; and the recent emergence of women's NGOs in the context of China's transition to a market economy and the growth of a UN-based international women's movement.

POLI 376 Units: 1.5 Hours: 3-0
Formerly: POLI 419
Politics of India
An exploration of the major themes in the political and economic development of independent India, including the fate of the Nehruvian development model, the contemporary crisis of the state and secularism, the transition to globalization, and the politics of caste, class and gender.
Note: Credit will be granted for only one of POLI 376, POLI 419, POLI 433 (if taken in the same topic).

POLI 377 Units: 1.5 Hours: 3-0
Comparative Federalism
Examines a variety of developed and developing federations with a view to improving our understanding of the relationship between formal federal arrangements and their underlying political communities. The factors affecting the governance, administration and policy performance of federations will be examined. The broad objective is to use comparative experience to improve our understanding of Canadian federalism.

POLI 378 Units: 1.5 Hours: 3-0
Topics in Contemporary European Politics
Analysis of contemporary issues in European politics in comparative perspective, with a strong emphasis on the European Union and the process of European integration.
Note: May be taken more than once for credit in different topics with permission of the department.

POLI 379 Units: 1.5 Hours: 3-0
Communication and Politics
An exploration of the theory and practice of the politics of media, including an analysis of media activism, social networking technologies, and the changing role of communication in contemporary politics.

POLI 380 Units: 1.5 Hours: 3-0
Politics of Mass Media in Latin America
An introduction to the politics of mass media in Latin America, including theories and themes such as media and authoritarianism, media and democratization, media reform, media analysis, media and accountability, and media and human rights. Differences and similarities throughout the region will be analyzed.

POLI 381 Units: 1.5 Hours: 3-0
Politics and Religion
An exploration of the relationship between politics and religion, including the religious dimensions of state sovereignty, global politics, and political conflict. Case studies will be drawn from different regions of the world and various religious traditions.
Note: Credit will be granted for only one of POLI 382, POLI 323, POLI 319 (if taken in the same topic).

POLI 383 Units: 1.5 Hours: 3-0
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
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 and
• declared Honours or Major in Political Science; and
• permission of the department.

POLI 401 Units: 1.5 Hours: 3-0
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):
• Two of POLI 300A, POLI 300B, POLI 300C; or
• permission of the department.

POLI 402 Units: 1.5 Hours: 3-0
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):
• Two of POLI 300A, POLI 300B, POLI 300C; or
• permission of the department.
POLI 410 - POLI 490

POLI 410 Units: 1.5 Hours: 3-0
Advanced Topics U.S. Politics
A seminar covering advanced topics in US Politics.
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s):
• POLI 313A; and
• POLI 313B or POLI 313C.

POLI 412 Units: 1.5 Hours: 3-0
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 413 Units: 1.5 Hours: 3-0
Feminist Political Thought
A seminar course covering the examination of feminist critiques of contemporary political theory and feminist social criticism and political thought, with particular attention to debates about knowledge, subjectivity and difference.
Prerequisite(s):
• Two of POLI 300A, POLI 300B, POLI 300C; or
• permission of the department.

POLI 414 Units: 1.5 Hours: 3-0
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 and POLI 311; or
• permission of the department.

POLI 422 Units: 1.5 Hours: 3-0
Youth Politics
A seminar course covering the examination of youth politics and its history and political implications. Topics include voting, political participation, civic engagement, education, activism, technology and working youth.

POLI 430 Units: 1.5 Hours: 3-0
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
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
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
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
Formerly: 342
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
Governing 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
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
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
Also: ADMN 462, 547
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.

POLI 463 Units: 1.5 Hours: 3-0
U.S./Canadian Comparative Indigenous Law and Policy
A seminar course that compares and contrasts US and Canadian Indigenous law and policy, paying particular attention to the constitution, court cases, and legal doctrines.

POLI 465 Units: 1.5 Hours: 3-0
British Columbia Governance
A seminar course covering an examination of the political institutions and public policy processes of provincial government in British Columbia.

POLI 473 Units: 1.5 Hours: 3-0
Advanced Topics in African Politics and Political Economy
A seminar course covering the exploration of major themes in African politics and political economy. Examines contemporary state-society relations in sub-Saharan Africa and other key themes, including the role of domestic, regional, and international economic and social forces in domestic politics and political struggles.
Prerequisite(s):
• POLI 373; or
• permission of the department.

POLI 490 Units: 1.5 or 3.0 Hours: 3-0
Directied Reading
Directed reading and/or research for Honours students under the supervision of an available faculty member may be offered to meet special circumstances. No more than 3 units of directed reading may be applied toward degree requirements and, except with the approval of the department, such units will not be applied toward the distribution requirement.
Note: Not open to Majors except with special permission of the department. Generally not offered in Summer Studies.
POLI 499

Units: 3.0

Honours Seminar and Essay

Students will prepare an in-depth examination of a selected topic in Political Science, working closely with a faculty supervisor. The seminar will meet on occasion in fall and spring terms for student presentations of essay proposals and work in progress. The essay should be approximately 15,000 words, must conform to acceptable standards of style and format, and must be submitted before the end of second term classes. An oral presentation and defence of the final essay will be scheduled during exam period in April.

Prerequisite(s):
- POLI 338 and POLI 339; and
- minimum fourth-year standing; and
- declared Honours in Political Science; or
- permission of the department.

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. A near-native speaker is defined as a person who speaks, writes and understands Portuguese with few errors and only the occasional non-patterned mistake. The department will assign students with some knowledge of Portuguese to the appropriate level.

PORT 100A

Units: 1.5

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

Units: 1.5

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

Units: 1.5

Formerly: half of 100

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.

Notes:
- Credit will be granted for only one of PSYC 100A, PSYC 100B.
- A minimum grade of C+ is required for the Honours or Major program.

PSYC 100B

Units: 1.5

Formerly: half of 100

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.

Notes:
- Credit will be granted for only one of PSYC 100B, PSYC 100A.
- A minimum grade of C+ is required for the Honours or Major program.

PSYC 191

Units: 1.5

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.

Prerequisite(s): Set by department depending upon topic.

PSYC 192

Units: 1.5

Introduction to Positive Psychology

An examination of the major concepts and principles of positive psychology, defined as the science of discovering meaning and happiness, fulfilling one's potential in spite of personal limitations and adverse circumstances, and flourishing life.

PSYC 201

Units: 1.5

Formerly: half of 200

Research Methods in Psychology

Introduction to basic research techniques in psychology; emphasis on the conceptual rather than the statistical rationale underlying various research strategies. Areas include the nature of variables, types of measurement, how to generate and test hypotheses, types of validity, and how to interpret and report results. Laboratory exercises and class demonstrations on the processes involved in conducting empirical research.

Note: Credit will be granted for only one of PSYC 201, PSYC 200.

Prerequisite(s): PSYC 100A and PSYC 100B.

PSYC 210

Units: 1.5

Conceptual Foundations of Psychology

Provides students with the background necessary to facilitate a full appreciation of upper-level courses. Current problems in psychology will be examined with reference to outstanding past and present persons and issues.

Note: See Note 1, here.

Pre- or Corequisite(s): PSYC 100A and PSYC 100B.

PSYC 215A

Units: 1.5

Formerly: half of 230

Introduction to Biological Psychology

Basic concepts of brain function in relation to behaviour. Topics will include basic aspects of neuronal functions, neuroanatomy, and behavioural genetics, as well as the functioning of the nervous system in relation to sensation, motor output, and at least one other aspect of behaviour.

Notes:
- Credit will be granted for only one of PSYC 215A, PSYC 230.
- See Note 1, here.

Prerequisite(s):
- PSYC 100A and PSYC 100B; or
- either 1.5 units of BIOL course, or one of EPHE 141, EPHE 241, EPHE 242; and
- minimum second-year standing.

PSYC 231

Units: 1.5

Formerly: 331

Introduction to Social Psychology

Surveys key theories and empirical findings concerning the complex and reciprocal connections between aspects of people's psychology - such as attitudes, goals, values, group memberships, self and identity, culture, and personality - and their social contexts.

Note: Credit will be granted for only one of PSYC 231, PSYC 331.

Prerequisite(s): PSYC 100A and PSYC 100B.

PSYC 243

Units: 1.5

Introduction to Lifespan Development

Surveys foundational concepts of lifespan development, such as sensitive periods, developmental stages and transitions, and trajectories of change across the lifespan.

Prerequisite(s): PSYC 100A and PSYC 100B.

PSYC 251

Units: 1.5

Introduction to Mind and Brain

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.

Prerequisite(s): Two of PSYC 100A, PSYC 100B, BIOL 184, BIOL 188.

PSYC 257

Units: 1.5

Formerly: 357

Research Methods in Social Psychology

Provides students with an understanding of research methodology used in social psychology. Course topics include the design of research studies, the use of pre- and post-experimental measures, and the statistical analysis of research results.

Prerequisite(s): PSYC 100A and PSYC 100B.
PSYC 260  Units: 1.5  Hours: 3-0
Formerly: PSYC 360
Introduction to Mental Health and Well-Being
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.
Note: Credit will be granted for only one of PSYC 260, PSYC 360, PSYC 430.
Prerequisite(s): PSYC 100A and PSYC 100B.

PSYC 300A  Units: 1.5  Hours: 3-1
Formerly: half of PSYC 300
Statistical Methods in Psychology I
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.
Notes:
• Credit will be granted for only one of PSYC 300A, PSYC 300B, and PSYC 300C.
Prerequisite(s):
• All of PSYC 100A, PSYC 100B, PSYC 201, PSYC 210, ENGL 133; and
• permission of the department.

PSYC 300B  Units: 1.5  Hours: 3-0
Formerly: half of PSYC 300
Statistical Methods in Psychology II
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.
Note: Credit will be granted for only one of PSYC 300A, PSYC 300B, PSYC 300C.
Prerequisite(s): PSYC 300A.

PSYC 317  Units: 1.5  Hours: 3-0
Formerly: 317A, 317B
Sensation and Perception
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.
Note: Credit will be granted for only one of PSYC 317, PSYC 317A, PSYC 317B.
Prerequisite(s):
• All of PSYC 100A, PSYC 100B, PSYC 215A (this set of prerequisites will only be accepted through summer 2017); or
• PSYC 201 and PSYC 251.

PSYC 320  Units: 1.5  Hours: 3-0
Evolutionary Psychology
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.
Prerequisite(s):
• Either all of PSYC 100A, PSYC 100B, PSYC 210, PSYC 215A (this set of prerequisites will only be accepted through summer 2017), or PSYC 231 or PSYC 251; and
• PSYC 201.

PSYC 325  Units: 1.5  Hours: 3-1.5
Formerly: 350
Environmental Psychology
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.
Note: Credit will be granted for only one of PSYC 325, PSYC 350.
Prerequisite(s):
• PSYC 201; or
• permission of the department.

PSYC 330  Units: 1.5  Hours: 3-0
Personality
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.
Note: Students who have completed a course equivalent to PSYC 201 may request permission to register in the course.
Prerequisite(s):
• Either PSYC 100A and PSYC 100B, or PSYC 260; and
• PSYC 201; and
• permission of the department.

PSYC 332  Units: 1.5  Hours: 3-0
Health Psychology
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.
Prerequisite(s):
• PSYC 100A and PSYC 100B (this set of prerequisites will only be accepted through summer 2017); or
• one of PSYC 231, PSYC 251, PSYC 260.

PSYC 333  Units: 1.5  Hours: 3-0
Formerly: 334B
Consumer Psychology
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.
Note: Credit will be granted for only one of PSYC 333, PSYC 334 (if taken in Sep 1970 - Apr 1972), PSYC 334B.
Prerequisite(s): One of PSYC 100A and PSYC 100B (this set of prerequisites will only be accepted through summer 2017), or PSYC 231, PSYC 251.

PSYC 334  Units: 1.5  Hours: 3-0
Formerly: 334A
Organizational Psychology
Individuals at work: personnel selection, training, motivation, attitudes, and appraisal; leadership, communication, management, productivity, work conditions, safety, and organizational development.
Note: Credit will be granted for only one of PSYC 334, PSYC 334A, COM 120, COM 220.
Prerequisite(s): Either PSYC 100A and PSYC 100B (this set of prerequisites will only be accepted through summer 2017), or PSYC 231.

PSYC 335  Units: 1.5  Hours: 3-0
Infant and Child Development
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.
Note: Credit will be granted for only one of PSYC 335, PSYC 333A.
Prerequisite(s):
• Either PSYC 100A and PSYC 100B, or PSYC 243; and
• PSYC 201; or
• permission of the department.

PSYC 336  Units: 1.5  Hours: 3-0
Adolescent Development
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.
Note: Credit will be granted for only one of PSYC 336, PSYC 333A.
Prerequisite(s):
• Either PSYC 100A and PSYC 100B, or PSYC 243; and
• PSYC 201; or
• permission of the department.
PSYC 338  Units: 1.5  Hours: 3-0
Behavioural Interventions: Children and Adults
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.
Prerequisite(s):
• PSYC 100A and PSYC 100B (this set of prerequisites will only be accepted through summer 2017); or
• PSYC 201 and PSYC 260.

PSYC 339  Units: 1.5  Hours: 3-0
Adult Development and Aging
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.
Note: Credit will be granted for only one of PSYC 339, PSYC 3338.
Prerequisite(s):
• Either PSYC 100A and PSYC 100B, or PSYC 243; and
• PSYC 201; or
• permission of the department.

PSYC 341  Units: 1.5  Hours: 3-0
Formerly: 441
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):
• All of PSYC 100A, PSYC 100B, PSYC 201; or
• permission of the department.

PSYC 345A  Units: 1.5  Hours: 3-0
Formerly: half of 345
Drugs and Behaviour: Basic Principles
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):
Either all of PSYC 100A, PSYC 100B, PSYC 215A (this set of prerequisites will only be accepted through summer 2017), or PSYC 251.

PSYC 351A  Units: 1.5  Hours: 3-0
Formerly: PSYC 313, PSYC 313A, PSYC 313B
Cognitive Psychology
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):
• Either PSYC 100A and PSYC 100B (this set of prerequisites will only be accepted through summer 2017), or PSYC 210 and PSYC 251; and
• PSYC 201; or
• permission of the department.

PSYC 351B  Units: 1.5  Hours: 3-0
Formerly: PSYC 315
Human Neuropsychology
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-behaviour relationship (e.g. neuromaging) 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):
• All of PSYC 100A, PSYC 100B, PSYC 215A (this set of prerequisites will only be accepted through summer 2017); or
• all of PSYC 201, PSYC 210, PSYC 251.

PSYC 351C  Units: 1.5  Hours: 3-0
Cognitive Neuroscience
Cognitive neuroscience emphasizes the study of mind-brain relationships using brain imaging techniques including functional MRI and electroencephalography as well as brain-based models of mental processes. Topic areas will include perception and attention, object recognition, memory, cognitive control, decision-making and language.
Prerequisite(s):
• PSYC 201 and PSYC 210; and
• PSYC 215A or PSYC 251.

PSYC 365  Units: 1.5  Hours: 3-0
Formerly: 432
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 365, PSYC 432.
Prerequisite(s):
• PSYC 100A and PSYC 100B, and minimum third-year standing (this set of prerequisites will only be accepted through summer 2017); or
• PSYC 201 and PSYC 260.

PSYC 366  Units: 1.5  Hours: 3-0
Formerly: PSYC 436
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):
• Either PSYC 100A and PSYC 100B (this set of prerequisites will only be accepted through summer 2017), or PSYC 260; and
• PSYC 201; or
• permission of the department.
Recommendation(s): Prior course in developmental or child psychology, and PSYC 361 or prior volunteer experience with a community agency recommended.

PSYC 370A  Units: 1.5  Hours: 3-0
Also: 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  Units: 1.5  Hours: 3-0
Also: 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  Units: 1.5  Hours: 3-0
Also: LING 370C
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 375  Units: 1.5  Hours: 3-0
Interpersonal Relationships
An introduction to social psychological research and theory on close relationships with a focus on adult romantic relationships. Topics include relationship formation, maintenance and dissolution.
Prerequisite(s):
• Either PSYC 100A and PSYC 100B (this set of prerequisites will only be accepted through summer 2017), or PSYC 231; and
• PSYC 201.

PSYC 385  Units: 1.5  Hours: 3-0
Motivation, Emotion, and Well-Being
Contemporary cognitive and social perspectives regarding the psychological forces that activate, organize and direct emotions and behaviours. Emphasis on factors and processes involved in self-regulation and well-being.
Prerequisite(s):
• PSYC 100A and PSYC 100B (this set of prerequisites will only be accepted through summer 2017); or
• PSYC 201, and one of PSYC 231, PSYC 243, PSYC 251, PSYC 260.

PSYC 386  Units: 1.5  Hours: 3-0
Cultural Psychology
Explores how cultural context shapes cognition, motivation, emotion, self, personality, and development.
Prerequisite(s):
• Either PSYC 100A and PSYC 100B (this set of prerequisites will only be accepted through summer 2017), or PSYC 231; and
• PSYC 201; or
• permission of the department.

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.
Note: May be taken more than once for credit in different topics; however, the maximum credit for 390 and 490 together must not exceed 6 units without permission of the department.
Prerequisite(s):
• All of PSYC 100A, PSYC 100B, PSYC 201; and
• minimum third-year standing; and
• minimum GPA of 3.5 in the last 15 units of coursework.

PSYC 391  Units: 1.5  Hours: 3-0
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.
Note: May be taken more than once in different topics.
Prerequisite(s):
• PSYC 201; and
• minimum third-year standing.

PSYC 400A  Units: 1.5  Hours: 3-0
Advanced Statistical Methods: The General Linear Model
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):
• All of PSYC 100A, PSYC 100B, PSYC 201, PSYC 300B with a minimum grade of B+.
Corequisite(s):
• PSYC 499; or
• permission of department.

PSYC 404  Units: 1.5  Hours: 3-0
Measurement of Psychological Processes
The measurement of individual differences, especially personality and ability traits. The focus will be on reliability and validity - how do we know whether, and to what degree, a psychological measure is reliable and valid? Topics include designs for estimating reliability and validity, advanced correlation, and current problems and issues in the field.
Note: The course does not teach psychological tests.
Prerequisite(s):
• All of PSYC 100A, PSYC 100B, PSYC 201, PSYC 300A with a minimum grade of B+.
Corequisite(s):
• PSYC 499; or
• permission of department.

PSYC 412A  Units: 1.5  Hours: 3-0
Complex Behaviour Analysis
Interpretative analyses of complex human behaviour from a behaviour-analytical perspective. Students will learn how behavioural principles can be applied to areas such as developmental disabilities (e.g., autism) and oppositional behaviours. Techniques for observing, tracking, and assessing behaviors are explored, as well as intervention strategies for behavior change. Research evidence underlying behavioral analysis is reviewed in detail.
Note: Credit will be granted for only one of PSYC 412A, PSYC 312.
Prerequisite(s):
• All of PSYC 100A, PSYC 100B, PSYC 311B (this set of prerequisites will only be accepted through summer 2017); or
• all of PSYC 300A, PSYC 338, and PSYC 365 or PSYC 366; or
• permission of the department.
Pre- or Corequisite(s):
• PSYC 300B; or
• permission of department.

PSYC 425  Units: 1.5  Hours: 3-0
Formerly: 431E
Advanced Environmental Psychology
An in-depth examination 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
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):
• All of PSYC 100A, PSYC 100B, PSYC 331 (this set of prerequisites will only be accepted through summer 2017); or
• PSYC 300A and two of PSYC 330, PSYC 375, PSYC 385, PSYC 386.
Pre- or Corequisite(s):
• PSYC 300B; or
• permission of the department.

PSYC 431G  Units: 1.5  Hours: 3-0
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 300B or minimum fourth-year standing (this set of prerequisites will only be accepted through summer 2017); and
• PSYC 385.

PSYC 431H  Units: 1.5  Hours: 3-0
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 385, PSYC 386; or
• PSYC 375 (this set of prerequisites will only be accepted through summer 2017).
Pre- or Corequisite(s):
• PSYC 300B; or
• permission of the department.
PSYC 431I  Units: 1.5  Hours: 3-0  
Formerly: 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):  
• All of PSYC 100A, PSYC 100B, PSYC 201 and minimum fourth-year standing (this set of prerequisites will only be accepted through summer 2017); or  
• PSYC 300A and two of PSYC 320, PSYC 325, PSYC 330, PSYC 332, PSYC 333, PSYC 334, PSYC 375, PSYC 385, PSYC 386.  
Pre- or Corequisite(s):  
• PSYC 300B; or  
• permission of the department.  

PSYC 431J  Units: 1.5  Hours: 3-0  
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, the self in close relationships, and cultural influences on the self.  
Prerequisite(s):  
• PSYC 300A; and  
• two of PSYC 320, PSYC 330, PSYC 375, PSYC 385, PSYC 386.  
Pre- or Corequisite(s):  
• PSYC 300B; or  
• permission of the department.  

PSYC 435A  Units: 1.5  Hours: 3-0  
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):  
• All of PSYC 100A, PSYC 100B, PSYC 201 and one of PSYC 335, PSYC 336, PSYC 339, PSYC 342 (this set of prerequisites will only be accepted through summer 2017); or  
• PSYC 300A and PSYC 335, and PSYC 336 or PSYC 339.  
Pre- or Corequisite(s):  
• PSYC 300B; or  
• permission of the department.  

PSYC 435C  Units: 1.5  Hours: 3-0  
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.  
Pre requisite(s):  
• All of PSYC 100A, PSYC 100B, PSYC 201 and one of PSYC 335, PSYC 336, PSYC 339, PSYC 342 (this set of prerequisites will only be accepted through summer 2017); or  
• PSYC 300A and PSYC 336, and PSYC 335 or PSYC 339.  
Pre- or Corequisite(s):  
• PSYC 300B; or  
• permission of the department.  

PSYC 435E  Units: 1.5  Hours: 3-0  
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 requisite(s):  
• All of PSYC 100A, PSYC 100B, PSYC 201 and one of PSYC 335, PSYC 336, PSYC 339, PSYC 342 (this set of prerequisites will only be accepted through summer 2017); or  
• PSYC 300A and PSYC 339, and PSYC 335 or PSYC 336.  
Pre- or Corequisite(s):  
• PSYC 300B; or  
• permission of the department.  

PSYC 442  Units: 1.5  Hours: 3-0  
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 235.  
Prerequisite(s):  
• All of PSYC 100A, PSYC 100B, PSYC 201, PSYC 210 and minimum fourth-year standing (this set of prerequisites will only be accepted through summer 2017); or  
• PSYC 300A and two of PSYC 335, PSYC 336, PSYC 339.  
Pre- or Corequisite(s):  
• PSYC 300B; or  
• permission of the department.  

PSYC 445A  Units: 1.5  Hours: 3-0  
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.  
Prerequisite(s):  
• All of PSYC 100A, PSYC 100B, PSYC 215A or PSYC 251 and one of PSYC 315, PSYC 335, PSYC 351B (this set of prerequisites will only be accepted through summer 2017); or  
• all of PSYC 300A, PSYC 338, PSYC 351B.  
Pre- or Corequisite(s):  
• PSYC 300B; or  
• permission of the department.  

PSYC 451A  Units: 1.5  Hours: 3-0  
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.  
Prerequisite(s):  
• All of PSYC 100A, PSYC 100B, PSYC 313 or PSYC 351A (this set of prerequisites will only be accepted through summer 2017); or  
• PSYC 300A and two of PSYC 351A, PSYC 351B, PSYC 351C.  
Pre- or Corequisite(s):  
• PSYC 300B; or  
• permission of the department.  
Recommendation(s): PSYC 351A recommended prior to PSYC 451A.
PSYC 451B  
Units: 1.5  
Hours: 3-0  
Formerly: 415A, 415  
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, PSYC 415A, PSYC 415.  
Prerequisite(s):  
• All of PSYC 100A, PSYC 100B, PSYC 315 or PSYC 351B (this set of prerequisites will only be accepted through summer 2017); or  
• PSYC 300A and PSYC 351B.  
Pre- or Corequisite(s):  
• PSYC 300B; or  
• permission of the department.  
Recommendation(s): PSYC 351B recommended prior to PSYC 451B.

PSYC 451C  
Units: 1.5  
Hours: 3-0  
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 processing, and embodied cognition. The focus of the course will be on the connections between cognitive processes and their neural mechanisms.  
Note: May be taken more than once for credit in different topics to a maximum of 3 units.  
Prerequisite(s):  
• PSYC 300A; and  
• two of PSYC 351A, PSYC 351B, PSYC 351C; or  
• permission of the department.  
Pre- or Corequisite(s):  
• PSYC 300B; or  
• permission of the department.  
Recommendation(s): PSYC 351C recommended prior to PSYC 451C.

PSYC 451D  
Units: 1.5  
Hours: 3-0  
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 after brain injury.  
Note: Credit will be granted for only one of PSYC 451D, PSYC 415B, PSYC 423.  
Prerequisite(s):  
• PSYC 300A or STAT 255; and  
• two of STAT 351D, BIOL 345, BIOL 365, BIOL 367; or  
• permission of the department.  
Pre- or Corequisite(s):  
• PSYC 300B or STAT 256; or  
• permission of the department.  

PSYC 460  
Units: 1.5  
Hours: 3-0  
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).  
Prerequisite(s):  
• All of PSYC 100A, PSYC 100B, PSYC 201, and one of PSYC 335, PSYC 336, PSYC 360, PSYC 366, PSYC 435A, PSYC 435B (this set of prerequisites will only be accepted through summer 2017); or  
• PSYC 300A and PSYC 351, and one of PSYC 330, PSYC 366, PSYC 338.  
Corequisite(s):  
• PSYC 300B; or  
• permission of the department.  

PSYC 461  
Units: 1.5  
Hours: 1.5-0  
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.  
Note: Credit will be granted for only one of PSYC 461, PSYC 361, PSYC 430.  
Prerequisite(s):  
• PSYC 300A and PSYC 351; and  
• PSYC 366 or PSYC 338; or  
• permission of the department.  
Pre- or Corequisite(s):  
• PSYC 300B; or  
• permission of the department.  
Grading: COM, N, F

PSYC 462  
Units: 1.5  
Hours: 3-0  
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. This course may not be offered every year.  
Prerequisite(s):  
• PSYC 300A and PSYC 365; and  
• PSYC 366 or PSYC 338; or  
• permission of department.  
Pre- or Corequisite(s):  
• PSYC 300B; or  
• permission of the department.

PSYC 463  
Units: 1.5  
Hours: 1.5-0  
Special Topics in Clinical Psychology  
Advanced study of a clinically-relevant topic.  
Note: May be taken more than once for credit in different topics.  
Prerequisite(s):  
• PSYC 300A and PSYC 365; and  
• one of PSYC 330, PSYC 366, PSYC 338; or  
• permission of department.  
Pre- or Corequisite(s):  
• PSYC 300B; or  
• permission of the department.

PSYC 470  
Units: 1.5  
Hours: 3-0  
The Cognitive Neuroscience of Language  
Examines how the human brain encodes speech sounds, words, sentence structure, and meaning. Topics may include: neural bases of language development, sign language and language disorders; aphasia studies; functional imaging; electrophysiology.  
Notes:  
• Credit will be granted for only one of PSYC 470, PSYC 370C (if taken in the same topic), LING 370C (if taken in the same topic), LING 470.  
• Cannot be used to satisfy the degree requirement for a 400-level seminar-style course in Psychology.  
Prerequisite(s): PSYC 370A.

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.  
Note: May be taken more than once for credit in different topics; however, the maximum credit for 390 and 490 together must not exceed 6 units without permission of the department.  
Prerequisite(s):  
• All of PSYC 100A, PSYC 100B, PSYC 201, PSYC 390; and  
• minimum fourth-year standing; and  
• minimum GPA of 5.5 in the last 15 units of coursework.

PSYC 491  
Units: 1.5  
Hours: 3-0  
Advanced Special Topics in Psychology  
Note: May be taken more than once for credit in different topics.  
Prerequisite(s):  
• PSYC 201; and  
• minimum third-year standing; and  
• additional prerequisites set by department depending upon topic.

PSYC 492  
Units: 1.5  
Hours: 2-1  
Research Seminar in Psychology  
A seminar and laboratory research course for Psychology Honours and Majors. Course content will vary with instructor.  
Note: May be taken more than once for credit in different topics.  
Prerequisite(s):  
• All of PSYC 100A, PSYC 100B, PSYC 201, PSYC 210, ENGL 135; and  
• permission of the department.
Religious Studies

Religious Studies Program
Faculty of Humanities

RS 200A Units: 1.5 Hours: 3-0
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.
Note: Credit will be granted for only one of RS 200A, PAAS 204.

RS 200B Units: 1.5 Hours: 3-0
Also: PAAS 204
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 RS 200B, PAAS 204.

RS 301 Units: 1.5 Hours: 3-0
Contemporary Religious Issues
The major religious traditions and their relationship to contemporary social, cultural, political and economic issues such as gender, death, ecology, work and the market economy.
Note: May be taken more than once for credit in different topics with permission of the program to a maximum of 4.5 units.
Prerequisite(s): Minimum second-year standing.
Recommendation(s): RS 200A and RS 200B recommended prior to RS 301.

RS 302 Units: 1.5 Hours: 3-0
Ways of Understanding Religion
An examination of how the methods and understanding of disciplines such as Anthropology, History, Philosophy, Psychology and Sociology contribute to the study of religion.
Note: May be taken more than once for credit in different topics with permission of the program to a maximum of 4.5 units.
Prerequisite(s): Minimum second-year standing.
Recommendation(s): RS 200A and RS 200B recommended prior to RS 302.

RS 303 Units: 1.5 Hours: 3-0
Religious Traditions I
An examination of the origins and early development of a major world religion (e.g. Hinduism, Buddhism, Confucianism, Judaism, Christianity, Islam).
Note: May be taken more than once for credit in different topics with permission of the program to a maximum of 4.5 units.
Prerequisite(s):
• RS 200A or RS 200B, and
• permission of the program.

RS 304 Units: 1.5 Hours: 3-0
Religious Traditions II
A survey of the development and contemporary manifestation of a major world religion (e.g. Hinduism, Buddhism, Confucianism, Judaism, Christianity, Islam).
Note: May be taken more than once for credit in different topics with permission of the program to a maximum of 4.5 units.
Prerequisite(s):
• RS 200A or RS 200B, and
• permission of the program.
Recommendation(s): RS 303 strongly recommended prior to RS 304.

RS 305 Units: 1.5 Hours: 3-0
Mysticism
Survey of mysticism as found in the history and literature of various religious traditions; critical analysis of the nature and significance of mystical experience understood from a number of theoretical perspectives; examination of the relationship between mysticism 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
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
Religion & The Environment
Surveys of the influence religious beliefs and practices have had upon humanity’s understanding of the environment (nature). 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
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
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 401 Units: 1.5 Hours: 3-0
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):
• RS 200A and RS 200B recommended

RS 403 Units: 1.5 Hours: 3-0
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 recommended

RS 450 Units: 1.5 Hours: 3-0
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):
• All of RS 200A, RS 200B, RS 301, RS 302, and
• minimum fourth-year standing; and
• declared Major in Religious Studies; or
• permission of the program.
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.

Science
Faculty of Science

SCIE 190

Individual Study

Units: 1.5

Directed 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

Individual Study

Units: 1.5

Directed 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

Individual Study

Units: 1.5

Directed 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), CENG (Computer Engineering), CIVE (Civil Engineering), CSC (Computer Science), ELEC (Electrical Engineering), ENGR (Engineering) and MECH (Mechanical Engineering).

SENG 265

Units: 1.5

Hours: 3-1.5

Software Development Methods

Systematic methods for designing, coding, testing and documenting medium-sized programs. Tools and techniques to promote productivity and software quality. Topics include specifications, code review and inspection techniques, testing and debugging methods and tools, reusable software components and templates, 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, SENG 265.

Prerequisite(s): CSC 115 or CSC 116.

SENG 299

Units: 1.5

Hours: 3-3

Formerly 271

Software Architecture and Design

An introduction to analysis and design of software architectures with UML (Unified Modeling Language) 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. Design patterns 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 (topic TBD).

Note: Credit will be granted for only one of SENG 299, SENG 299.

Prerequisite(s):
• SENG 265; and
• minimum third-year standing.

SENG 310

Units: 1.5

Hours: 3-2

Human Computer Interaction

Understanding human behaviour as it applies to user interfaces: work activity analysis, observational techniques, questionnaire administration and unobtrusive measures. Operating parameters of the human cognitive system, task analysis and cognitive modelling techniques and their application to designing interfaces. Interface representation and prototyping tools. Cognitive walkthroughs, usability studies and verbal protocol analysis. Case studies of specific user interfaces.

Prerequisite(s): One of SENG 221, SENG 265, CENG 241.

SENG 321

Units: 1.5

Hours: 3-3

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

Object-Oriented Software Development


Prerequisite(s): SENG 265.

SENG 360

Units: 1.5

Hours: 3-2

Security Engineering

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.

SENG 371

Units: 1.5

Hours: 3-2

Software Evolution

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 299, SENG 321.
SENG 380  
Units: 1.5  
Hours: 3-0  
Software Process and Management
Prerequisite(s):
- ENGR 280; and
- minimum third-year standing in the Faculty of Engineering; or
- permission of the department.

SENG 399  
Units: 1.5  
Hours: 1-6  
Design Project I
A predefined and guided team-based technical project with focus on formal specifications and tool-supported formal methods. Expected learning outcomes also include an awareness of the Professional Engineers’ responsibilities with respect to public and worker safety and health.
Prerequisite(s): ENGR 381.

SENG 401  
Units: 1.5  
Hours: 3-0  
Social and Professional Issues
Introduces students to the social and professional issues arising in the context of Software Engineering. Topics include: the impact of software systems on privacy and handling of personal information; the roles of encryption and interception of communication; trust in computers; free speech and civil discourse through the Internet; intellectual property such as copyright and patents in the age of digital systems; computer crime; crimes in the workplace; professional ethics and responsibilities; sustainable development and environmental stewardship.
Prerequisite(s): Minimum fourth-year standing.

SENG 410  
Units: 1.5  
Hours: 3-0  
Media Applications
The influence of technology, especially digital technology, on how we express ourselves, how we communicate with each other, and how we perceive, think about, and interact with our world. The invention and creative use of enabling technologies for understanding and expression by people and machines. Topics include: digital video representations; three-dimensional images; physical interfaces; computational tools and media that help people learn new things in new ways (tele-learning); knowledge representation; machine interpretation of sensory data.
Prerequisite(s): Minimum fourth-year standing in the Faculty of Engineering.

SENG 411  
Units: 1.5  
Hours: 1-3  
Advanced Methods for Human Computer Interaction
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.

SENG 421  
Units: 1.5  
Hours: 3-2  
Global Software Engineering
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.

SENG 422  
Units: 1.5  
Hours: 3-3  
Advanced Software Architecture
Architectural design of complex software systems. Techniques for designing, evaluating and implementing software system structures, models and formal notations for characterizing and reasoning about architectures, tools and generating specific instances of an architecture, and case studies of actual system architectures. Role of Standards. Students must complete a project that involves substantial software design. Students work in teams. Progress is determined through a preliminary design review; presentation; demonstration of the design, and final report.
Prerequisite(s): One of SENG 271, SENG 299, SENG 330.

SENG 426  
Units: 1.5  
Hours: 3-2  
Software Quality Engineering
Emphasizes software quality engineering as an integral facet of development, from requirements through delivery and maintenance. The students will learn how to choose appropriate quality goals and select, plan, and execute quality assurance activities throughout development and evolution to predictably meet quality and schedule goals. They will learn how quality assurance can be incorporated into process improvement feedback loops that amplify the ability of an organization to cost-effectively prevent and detect faults.
Prerequisite(s): One of SENG 321, SENG 371, CENG 356.

SENG 435  
Units: 1.5  
Hours: 3-1  
Computer-Supported Collaborative Work
Most of the work that people do requires some degree of coordination and communication with others. Successful designs require: (1) social psychological insight into group processes; (2) computer science insight into mechanisms to organize information, coordinate, share, and communicate, and (3) HCI design insight to achieve successful designs for computer-mediated tools. Focuses primarily on the first two and examines problems and solutions in group coordination and systems including group decision support, organizational memory, virtual spaces, and collaborative design.
Prerequisite(s): SENG 310.

SENG 440  
Units: 1.5  
Hours: 3-1  
Embedded Systems
Prerequisite(s): CENG 355 or CSC 355.

SENG 460  
Units: 1.5  
Hours: 3-0  
Practice of Information Security and Privacy
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.

SENG 461  
Units: 1.5  
Hours: 3-1  
Network Security
Surveys the challenges, principles and practice of modern network security. Topics covered 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): CENG 460 or CSC 361.

SENG 462  
Units: 1.5  
Hours: 3-0-1  
Distributed Systems and the Internet
Note: Credit will be granted for only one of SENG 462, CSC 462.
Prerequisite(s):
- One of SENG 271, SENG 299, SENG 330, CENG 356, and
- CENG 460 or CSC 361.
Software for Embedded and Mechatronics Systems

Software engineering methods and techniques for systematic development and maintenance of embedded and mechatronic systems. Topics include requirements of software that drives mechatronic systems, specifications of mechatronics, real-time and reactive systems, validation, verification, simulation and testing of mechatronics software. Building product-line software architectures of mechatronic systems is also addressed.

Prerequisite(s): One of SENG 265, SENG 321, SENG 365, CENG 353.

Data Mining

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
- minimum third-year standing.

Advanced Programming Techniques for Robust and 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, multithreading, transactional memory, parallelism, and vectorization; cache-efficient coding; compile-time versus run-time computation; compile-time versus run-time polymorphism; 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; and
- permission of the department.

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 480B, SENG 480A (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.

Design Project II

The student is required to pursue an independent project under the supervision of a faculty member, to prepare a written report and present a seminar describing the work. Projects will normally focus on large software systems, and collaboration with an industrial sponsor is encouraged.

Note: Credit will be granted for only one of SENG 499, CENG 499, ELEC 499.

Prerequisite(s):
- SENG 399 and ENGR 002; and
- minimum fourth-year standing in the Faculty of Engineering; or
- permission of the department.

Social Justice Studies

Interdisciplinary Programs

Introduction to the Practice 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.

Introduction to Theories of Social Justice

An interdisciplinary, team-taught study focusing on the theory of social justice. Focuses on understanding the application of social justice concepts and theories to effect social and political change, including the social and political movements and processes that have been mobilized to address issues of social injustice.

Seminar in Social Justice Studies

Interdisciplinary exploration of theories and methodological approaches that bear on key questions of social justice.

Prerequisite(s):
- SJS 100 and SJS 200; and
- minimum fourth-year standing; or
- permission of the program.
SLST 110  Units: 1.5  Hours: 3.0
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 Russian in the context of everyday life.

Notes:
• Credit will be granted for only one of SLST 101, RUSS 100, RUSS 100A.

SLST 102  Units: 1.5  Hours: 3.0
Formerly: RUSS 100B

Beginning Russian II
Continuation of the development of basic reading, writing and conversation skills. Introduction to various aspects of everyday Russian life and culture through the language.

Notes:
• Credit will be granted for only one of SLST 102, RUSS 100, RUSS 100B.

SLST 111  Units: 1.5  Hours: 3.0
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.

Notes:
• Credit will be granted for only one of SLST 111, UKR 100A.

SLST 112  Units: 1.5  Hours: 3.0
Formerly: UKR 100B

Beginning Ukrainian II
Expands knowledge and skills acquired in SLST 111. Progress toward command of the spoken and written language.

Notes:
• Credit will be granted for only one of SLST 112, UKR 100B.

SLST 160  Units: 1.5  Hours: 3.0
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
Formerly: 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, animated 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
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.

Notes:
• Credit will be granted for only one of SLST 201, RUSS 200, RUSS 200A.

SLST 202  Units: 1.5  Hours: 3.0
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.

Notes:
• Credit will be granted for only one of SLST 202, RUSS 200, RUSS 200B.

SLST 300  Units: 1.5  Hours: 3.0
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.

Notes:
• Credit will be granted for only one of SLST 301, RUSS 300A, RUSS 302.

SLST 301  Units: 1.5  Hours: 3.0
Formerly: RUSS 300B

Russian Popular Culture (in Russian)
For advanced to intermediate students of Russian. Focus on improving mastery of the spoken language and comprehension and study of Russian popular culture in the original language.

Notes:
• Credit will be granted for only one of SLST 303, RUSS 300B, RUSS 302, RUSS 303.

SLST 303  Units: 1.5  Hours: 3.0
Formerly: RUSS 303

Russian Popular Culture (in English)
For advanced to intermediate students of Russian. Focus on improving mastery of the spoken language and comprehension and study of Russian popular culture in the original language.

Notes:
• Credit will be granted for only one of SLST 303, RUSS 300B, RUSS 302, RUSS 303.

SLST 345  Units: 1.5  Hours: 3.0
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.

Notes:
• 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.
SLST 360  Units: 1.5  Hours: 3-0
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
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
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
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
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.
Note: May count towards a Minor in Film Studies. No knowledge of Russian required.

SLST 365  Units: 1.5  Hours: 3-0
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
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
Formerly: RUSS 403
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
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
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.
Note: May count towards a Minor in Film Studies. No knowledge of Russian required.

SLST 451  Units: 1.5  Hours: 3-0
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
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 490 - SOCI 210

SLST 490  Units: 1.5  Hours: 3-0
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 of the topic of the thesis will be given by a departmental committee.

SMGT 417  Units: 1.5  Hours: 3-0
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.

SMGT 415  Units: 1.5  Hours: 3-0
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
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 delivery, defining and measuring service quality, quality management frameworks and principles. To pics to be examined 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 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.

SOCI 202  Units: 1.5  Hours: 3-0
Social Problems, Regulation and Control
Analysis of the construction of social problems such as crime, drug use, welfare reform, raves, identity theft, animal abuse, homelessness and sex work. Examination of the framing of problems through multiple media sources and activities (e.g. political debate, social movements, victims’ families) as well as the regulation of these issues. Reflects on the gap between what objective evidence suggests we should worry about and what actually attracts our worries.
Recommendation(s): Recommended prior to one of SOCI 206, SOCI 307, SOCI 401.

SOCI 204  Units: 1.5  Hours: 3-0
Formerly: 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
Formerly: 305A, part of 305
Sociological Perspectives on Family Relationships
Exploration of theory and research on the dynamics of family relationships over family life-cycles. Topics include the formation of couple 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.
Note: Credit will be granted for only one of SOCI 205, SOCI 305, SOCI 305A.
Recommendation(s): Recommended prior to SOCI 305B, SOCI 343, or SOCI 443.

SOCI 206  Units: 1.5  Hours: 3-0
Formerly: 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 victimless crimes.
Note: Credit will be granted for only one of SOCI 206, SOCI 301, SOCI 306.

SOCI 210  Units: 1.5  Hours: 3-0
Formerly: 308
Foundations of Sociological Theory
Survey of major sociological theories from the foundation of sociology in the early 1800s until early 1900s. The course outlines the main ideas and concepts of the principal schools of thought in the formative era of sociology, and the socio-historical context in which these ideas developed.
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.
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<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Prerequisites/Notes</th>
</tr>
</thead>
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<tr>
<td>SOCI 211</td>
<td>1.5</td>
<td>3-0</td>
<td>Introduction to Sociological Research</td>
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<tr>
<td>SOCI 215</td>
<td>1.5</td>
<td>3-0</td>
<td>Class and Social Inequality</td>
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<td>SOCI 220</td>
<td>1.5</td>
<td>3-0</td>
<td>The Information Society</td>
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<td>SOCI 271</td>
<td>1.5</td>
<td>3-1</td>
<td>Introduction to Statistical Analysis in Sociology</td>
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<td>SOCI 281</td>
<td>1.5</td>
<td>3-0</td>
<td>Sociology of Gender</td>
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<td>SOCI 285</td>
<td>1.5</td>
<td>3-0</td>
<td>Health over the Life Course</td>
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<td>SOCI 305B</td>
<td>1.5</td>
<td>3-0</td>
<td>Families and Social Change</td>
</tr>
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<td>SOCI 307</td>
<td>1.5</td>
<td>3-0</td>
<td>Regulation and Social Control</td>
</tr>
<tr>
<td>SOCI 309</td>
<td>1.5</td>
<td>3-0</td>
<td>Modern Social Theory</td>
</tr>
<tr>
<td>SOCI 310</td>
<td>1.5</td>
<td>3-0</td>
<td>Religion in Society</td>
</tr>
<tr>
<td>SOCI 312</td>
<td>1.5</td>
<td>3-0</td>
<td>White-Collar Crime</td>
</tr>
<tr>
<td>SOCI 316</td>
<td>1.5</td>
<td>3-0</td>
<td>Social Movements</td>
</tr>
<tr>
<td>SOCI 318</td>
<td>1.5</td>
<td>3-0</td>
<td>Sociology of Work and Occupations</td>
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<td>SOCI 321</td>
<td>1.5</td>
<td>3-0</td>
<td>Social Networks</td>
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**Notes:**
- SOCI 281: Recommended prior to SOCI 382, SOCI 389, or SOCI 481.
- SOCI 305B: Recommended prior to SOCI 327, SOCI 385, or SOCI 445.
- SOCI 307: Formerly part of 301.
- SOCI 309: Formerly part of 301.
- SOCI 310: Formerly 310A.
- SOCI 312: Formerly 318.
- SOCI 316: Formerly 318.
- SOCI 318: Formerly 318.

**Course Descriptions:**

**Introduction to Sociological Research**
Introduction to important concepts and strategies of social research, including conceptualization and measurement, research design, sampling, the collection and analysis of qualitative and quantitative data.

**Class and Social Inequality**
Introductory examination of the shifting patterns, determinants, and consequences of social inequality, with an emphasis on occupations, education, class, gender, ethnicity, income, region and power. The course also surveys key theories of class and stratification in global and comparative perspective.

**The Information 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.

**Introduction to Statistical Analysis in Sociology**
Descriptive statistics, probability distributions, statistical inference, including estimation and significance tests, and an introduction to bivariate analysis. Computer assisted analysis of sociological data.

**Sociology of Gender**
Introduction to sociological perspectives on gender. It 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.

**Health over the Life Course**
An introduction to the sociology of health from childhood to old age. Includes a variety of theoretical perspectives from micro, meso and macro approaches as well as topics such as the experience of being healthy and of having different illnesses; distributions of different diseases and conditions; health and illness beliefs and behaviours; structural influences on health and illness; inequalities in health and illness; the role of individual agency, self, informal and formal care; and health care policy. All using a life course lens.

**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.

**Regulation and Social Control**
Examines forms of regulation, social control and policing. Emphasizes how power operates in organizations, how policing happens in contemporary society, and the role of the state and military in regulating everyday life.

**Modern Social Theory**
Survey of major theoretical perspectives influential in sociology since the early twentieth century. Covers key concepts in sociology such as power, ideology, rationality, inequality, feminism, social structure, agency and identity. Emphasis is placed on connections both to classical theories and to broad cultural and political currents.
### SOCI 327 - 3 Units - Hours: 3-0

**International Perspectives on Inequities in Health and Care**

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.

**Recommendation(s):** SOCI 215 or SOCI 285 recommended prior to SOCI 327. Strongly recommended prior to SOCI 419 or SOCI 445.

### SOCI 331 - 3 Units - Hours: 3-0

**Political Sociology**

Survey of political contention and political power, viewed through the lens of their social bases in regional, class, religious, ethnic, linguistic, and cultural differences.

**Note:** Credit will be granted for only one of SOCI 331, SOCI 330.

### SOCI 335 - 3 Units - Hours: 3-0

**Racialization and Ethnicity**

Using mainly Canadian examples, examines theories and research on racialization, racism, and ethnic identities with special emphasis on their relationship to social inequalities.

**Recommendation(s):** SOCI 215 recommended prior to SOCI 335. Recommended prior to SOCI 450.

### SOCI 345 - 3 Units - Hours: 3-0

**Sociology of Mental Health**

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.

**Recommendation(s):** SOCI 285 recommended prior to SOCI 345. Recommended prior to SOCI 445.

### SOCI 355 - 3 Units - Hours: 3-0

**The Corporation, Capitalism, and Globalization**

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.

**Recommendation(s):** SOCI 215 recommended prior to SOCI 355. Recommended prior to SOCI 419.

### SOCI 373 - 3 Units - Hours: 3-0

**Power, Knowledge, and Social Justice**

Examination of power and social justice initiatives. Examines critical epistemologies (Marxist, feminist and postcolonial), analytical strategies (critical discourse analysis, participatory action research, institutional ethnography), and the relationship between creating and mobilizing knowledge for social change.

**Recommendation(s):** SOCI 215 recommended prior to SOCI 373. Recommended prior to SOCI 450.

### SOCI 374 - 3 Units - Hours: 3-0

Formerly half of 375, 375A

**Qualitative Research Methods**

Strategies of qualitative research design. Possible topics include: indepth interviews, narrative analysis, field work, evaluation, historical research, and textual analysis.

**Note:** Credit will be granted for only one of SOCI 374, SOCI 375, SOCI 375A.

**Prerequisite(s):** SOCI 211.

### SOCI 376 - 3 Units - Hours: 3-1

Formerly half of 375, 375B

**Quantitative Research Methods**

Strategies of quantitative research design. Possible topics include: experimental designs, survey research, questionnaire construction and secondary data analysis.

**Note:** Credit will be granted for only one of SOCI 376, SOCI 375, SOCI 375B.

**Prerequisite(s):** SOCI 211 and SOCI 271.

### SOCI 382 - 3 Units - Hours: 3-0

**Sociology of Sexuality**

Examination of sociological, theoretical and historical perspectives on sexuality. Topics covered may include: sexual identities and social inequality, sex education, pornography, sex in popular culture, sexualized bodies, diversity in sexual cultures, HIV/AIDS, sexual violation, new productive technologies, the globalization of sexuality, and the relation of gender to sexuality.

**Recommendation(s):** SOCI 281 recommended prior to SOCI 382. Recommended prior to SOCI 481.

### SOCI 385 - 3 Units - Hours: 3-0

**Sociology of Aging**

An overview of the sociology of aging, including theoretical perspectives, methodological challenges, and substantive topics such as the gendered nature of aging, cultural comparisons, families and intergenerational relations, and health and healthcare.

**Recommendation(s):** SOCI 285 recommended prior to SOCI 385. Recommended prior to SOCI 445.

### SOCI 387 - 3 Units - Hours: 3-0

**Technology, Science and the Information Society**

An examination of the role of technology and science in shaping contemporary society. Topics may include: the social construction of technology and scientific knowledge; the internet and new communication technologies; biotechnology and the genetic modification of life; popular representations of science and technology; and the role of digital information-based technologies in economic, political, and social relations.

**Note:** Credit will be granted for only one of SOCI 387, SOCI 390 (if taken in the same topic).

### SOCI 388 - 3 Units - Hours: 3-0

**Food and Society**

Are You What You Eat? Analysis of the social organization of food production and consumption in the contexts of the globalization of food relationships and the social production of hunger.

**Note:** Credit will be granted for only one of SOCI 388, SOCI 390 (if taken in the same topic).

**Recommendation(s):** SOCI 215 recommended prior to SOCI 388. Recommended prior to SOCI 419.

### SOCI 389 - 1.5 Units - Hours: 3-0

**Death and Dying and the Body**

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.

**Note:** Credit will be granted for only one of SOCI 389, SOCI 488.

**Recommendation(s):** SOCI 281 recommended prior to SOCI 389.

### SOCI 390 - 1.5 Units - Hours: 3-0*

**Selected Problems 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 offered and what the substantive presentation will involve.

### SOCI 391 - 3 Units

**Environmental Sociology Field School**

Investigates the social dynamics shaping human interactions with the natural world, uncovering driving forces behind environmental crises, interrogating the social, economic and environmental results of resource exploitation, and leveraging those insights to develop and carry out local, practical and progressive solutions. Combines classroom analysis of environmental sociology with field studies of the environmental impact of resource exploitation and the community response in multiple North American locations. Emphasis on developing solutions through service with community organizations.

**Note:** Additional fees (including travel costs) may be necessary to support field expenses.

**Prerequisite(s):**
- All of SOCI 100A, SOCI 100B, SOCI 210, SOCI 211; or
- permission of the department.

### SOCI 401 - 1.5 Units - Hours: 3-0

**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 socio-economic origins and class interests of legal functionaries, and law as social conflict are analyzed in

**Prerequisite(s):**
- 1.5 units of 300- or 400-level SOCI course; or
- permission of the department.

**Recommendation(s):** SOCI 202, and SOCI 206 or SOCI 307 recommended prior to SOCI 401.
SOCI 402 - Units: 1.5 - Hours: 3-0
Current Issues in Social Theory
An in-depth study of selected recent developments and debates in social theory. The course engages with original texts of contemporary theorists and places emphasis on their contributions to the advancement of sociological knowledge.
Note: Credit will be granted for only one of SOCI 402, SOCI 300.
Prerequisite(s):
- SOCI 210 and SOCI 308; and
- declared Honours or Major in Sociology.

SOCI 412 - Units: 1.5 - Hours: 3-0
Sociological Explanations
An in-depth examination of how sociological explanations are created. Examines several schools of thought, including positivist, interpretive, phenomenological, critical, structural-functional, feminist, and deconstructive and/or postmodern. Traces the historical and philosophical roots of each school of thought to show how theories and methods are linked.
Note: Credit will be granted for only one of SOCI 412, SOCI 300, SOCI 302.
Prerequisite(s):
- SOCI 210 and SOCI 308; and
- declared Honours or Major in Sociology.

SOCI 419 - Units: 1.5 - Hours: 3-0
Formerly: ANTH 419
Globalization and Sustainability
An in-depth study of the various aspects and ramifications of globalization of capital and labour, focusing on how globalization has created the critical issue of environmental sustainability. Topics may include: modernization and industrialization, state and government, environmental degradation, nongovernmental organizations, labour migration, free trade agreements and zones, population displacement, developmental packages and aid, and the movements of women, indigenous, youth, workers, and immigrants against exclusion.
Note: Credit will be granted for only one of SOCI 419, ANTH 419.
Prerequisite(s):
- 1.5 units of 300- or 400-level SOCI course; or
- permission of the department.
Recommendation(s): SOCI 215 and one of SOCI 318, SOCI 327, SOCI 388 recommended prior to SOCI 419.

SOCI 443 - Units: 1.5 - Hours: 3-0
Formerly: 342, 340
Population Problems and Policies
A review of contemporary population trends, their effects on human well-being, families, and social policy responses. Topics include: population growth, sustainable development, and the environment; population aging; families, marriage, cohabitation and divorce; new reproductive technology; population and gender; immigration; urbanization; and human crowding.
Note: Credit will be granted for only one of SOCI 443, SOCI 340, SOCI 342.
Prerequisite(s):
- 1.5 units of 300- or 400-level SOCI course; or
- permission of the department.
Recommendation(s): All of SOCI 205, SOCI 305B, SOCI 343 recommended prior to SOCI 443.

SOCI 445 - Units: 1.5 - Hours: 3-0
Sociology of Health and Illness
An in-depth examination of contemporary issues and debates in the sociology of health and illness. Specific topics may vary from year to year. Intended for students wishing to pursue advanced sociological study in health and illness.
Prerequisite(s):
- 1.5 units of 300- or 400-level SOCI course; or
- permission of the department.
Recommendation(s): SOCI 285 and one of SOCI 327, SOCI 345, SOCI 385 recommended prior to taking this course.

SOCI 450 - Units: 1.5 - Hours: 3-0
Sociology and Social Justice
An examination of sociology’s relationship with social control, social reform and social activism, beginning with Comte and including various strands of critical and applied sociology. Much of the course focuses on recent developments and debates on sociology and social policy, sociology and social movements, and "public sociology."
Prerequisite(s):
- 1.5 units of 300- or 400-level SOCI course; or
- permission of the department.
Recommendation(s): SOCI 215 and one of SOCI 315, SOCI 331, SOCI 333, SOCI 355, SOCI 373 recommended prior to SOCI 450.

SOCI 465 - Units: 1.5 - Hours: 3-0
Sociology of Climate Change and Environment
Engages sociological explanations of the causes of environmental destruction but with a focus on sociological analyses of grassroots and other efforts at solutions and alternatives. These will 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.
Prerequisite(s):
- 1.5 units of 300- or 400-level SOCI course; or
- permission of the department.

SOCI 471 Units: 1.5 - Hours: 3-1
Formerly: 371B; 372
Multivariate Statistical Analysis
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 or SOCI 371A; and
- admission to BA program in Sociology or admission to MA program in Leisure Service Administration; or
- permission of the department.

SOCI 481 - Units: 1.5 - Hours: 3-0
Feminist Theory/Feminist Theorizing
Engages the possibilities and challenges of feminist sociological perspectives. Feminism is approached as ways of seeing, thinking, interacting and being critically reflective in the everyday world.
Prerequisite(s):
- 1.5 units of 300- or 400-level SOCI course; or
- permission of the department.
Recommendation(s): SOCI 281 and SOCI 382 recommended prior to SOCI 481.

SOCI 490 - Units: 1.0-3.0
Directed Studies
May be submitted for an elective course in Sociology in the fourth year of the Honours Program with permission of the department.
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

SOCI 499 - Units: 3.0 - Hours: 1.5-0
Honours Seminar and Thesis
The Honours Seminar facilitates learning of theoretical, methodological, and empirical competencies necessary for completion of the Honours thesis. Under the direction of a supervisor from the department, students complete either an in-depth review of literature on a sociological topic or substantive and original research on a sociological issue. Students are expected to present findings from their thesis at the annual Sociology Colloquium.

SOCW

Social Work

School of Social Work

Faculty of Human and Social Development

All 300- and 400-level Social Work courses are only open to Social Work students unless otherwise noted in the course description. When a course is oversubscribed, preference will be given to Social Work students who are closest to graduation. Contact the School of Social Work or refer to current timetable for course offerings.

SOCW 200A Units: 1.5 - Hours: 3-0
An Introduction to Social Work Practice
An introduction to the practice of social work beginning with a critical examination of the ethics, values and historical development of the profession. Students will become familiar with several critical social theories that inform anti-oppressive social work practice. The relationship between private troubles and public issues as well as the concepts of power, oppression, privilege, identity and social justice will be explored. Emphasis on self reflection which will assist students in examining their identities and their interest, motivation and capacity for social work practice.
SOCW 304
Social Work Practicum I
In the first BSW practicum (350 hours) students: practice social work under supervision in an agency setting, apply, integrate and translate theories into practice; and experience the economic, political and policy constraints on practice.

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).

3.0 unit practicum is 315 hours.
4.5 unit practicum is 350 hours.

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): Either SOCW 311 and SOCW 312, or SOCW 323.
Grading: INP, COM, N, F.

SOCW 304A
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 will 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): Either SOCW 311 and SOCW 312, or SOCW 323.
Grading: COM, N, F.

SOCW 311
Units: 1.5
Hours: 3-0
Formerly: part of 323.
Understanding Oppression
An examination of 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 will be 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
Formerly: part of 323.
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 will 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 will examine ways to further anti-oppressive tools 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
Formerly: part of 318.
Research for Social Change
An introduction to research as social justice work. Students will learn about a range of qualitative and quantitative methodologies, with an emphasis on Indigenous, critical and anti-oppressive approaches. Students will be engaged in critically analyzing what counts as knowledge, developing alternative ways of understanding social issues, redefining the relationship between researchers and participants, and developing 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): Either SOCW 311 and SOCW 312, or SOCW 323.

SOCW 350
Units: 1.5
Hours: 1.5-1.5
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 will 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
Units: 1.5
Hours: 3-0
Legal and Social Justice Skills for Social Workers
A skill-based course focusing on the development of legal skills in an anti-oppressive framework. Emphasis is given to 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 or CYC 350A, and
- admission to Bachelor of Social Work program; or
- permission of the school.

SOCW 354
Units: 1.5
Hours: 3-0
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 people in Canadian Society. Contemporary issues and the movement toward self-determination will be 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): Either SOCW 311 and SOCW 312, or SOCW 323.
SOCW 356 Units: 1.5
Human Development and the Social Environment within 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 the impact of the cultural, global, spiritual and natural worlds people inhabit on understanding lifespan development with the implications of this understanding for social work practice.

Note: 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
Indigenous Approaches to Healing and Helping
Through direct interaction with Indigenous elders, political leaders and human service workers, students will explore traditional and contemporary approaches used by Indigenous peoples to help and heal in their communities. Students will be challenged to integrate these approaches into their own lives and social work practices.

Note: Limited to Indigenous students of North America or permission of the department.

Pre- or Corequisite(s): Either SOCW 311 and SOCW 312, or SOCW 323.

SOCW 400 Units: 1.5
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 the context of a practice framework that focuses on the social determinants of health. The challenges and opportunities provided by the cultural and organizational contexts of practice in health care will be an important focus while examining the inter-professional nature of practice. Particular aspects of practice such as appropriate documentation, informed consent and community development will be included.

Prerequisite(s): Either SOCW 311 and SOCW 312, or SOCW 323.

SOCW 402 Units: 4.5
Social Work Practicum II
In the second BSW practicum (350 hours) 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.

Notes:
• Credit will be granted for only one of SOCW 402, SOCW 404, SOCW 404A.
• 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 402.

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.

Pre- or Corequisite(s):
• One of SOCW 301, SOCW 318, SOCW 319; and SOCW 304 or SOCW 304A; and either SOCW 311 and SOCW 312, or SOCW 323; and SOCW 350A and SOCW 354.

Grading: INP, COM, N, F

SOCW 404 Units: 4.5
Child Welfare Specialization: Child Protection Practicum
In this second BSW practicum (350 hours), 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.

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 training prior or during their practicum placement. Non-BC students may be required to meet the requirements applicable in other jurisdictions.

Pre-requisite(s):
• For students admitted to Child Welfare Specialization:
  • One of SOCW 301, SOCW 318, SOCW 319; and SOCW 304 or SOCW 304A; and either SOCW 311 and SOCW 312, or SOCW 323; and all of SOCW 350A, SOCW 350B, SOCW 354, SOCW 356, SOCW 475; and SOCW 469 or SOCW 471.
  • For students admitted to Indigenous Child Welfare Specialization:
    • One of SOCW 301, SOCW 318, SOCW 319; and SOCW 304 or SOCW 304A; and either SOCW 311 and SOCW 312, or SOCW 323; and all of SOCW 350A, SOCW 350B, SOCW 354, SOCW 356, SOCW 391, SOCW 491, SOCW 492.

Grading: INP, COM, N, F
SOCW 404A Units: 4.5
Child Welfare Specialization: Child Welfare Practicum
In this second BSW practicum (350 hours), 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.

Notes:
• Credit will be granted for only one of SOCW 404A, SOCW 404, 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).

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 to 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):
• For students admitted to Child Welfare Specialization:
  • One of SOCW 301, SOCW 318, SOCW 319; and
  • SOCW 304 or SOCW 304A; and
  • either SOCW 311 and SOCW 312, or SOCW 323; and
  • all of SOCW 350A, SOCW 350B, SOCW 354, SOCW 356, SOCW 475; and
  • SOCW 469 or SOCW 471.

• For students admitted to Indigenous Child Welfare Specialization:
  • One of SOCW 301, SOCW 318, SOCW 319; and
  • SOCW 304 or SOCW 304A; and
  • either SOCW 311 and SOCW 312, or SOCW 323; and

Pre- or Corequisite(s):
• For students admitted to Child Welfare Specialization:
  • All of SOCW 413, SOCW 451, SOCW 476.

• For students admitted to Indigenous Child Welfare Specialization:
  • SOCW 413 and SOCW 451.

Grading: INF, COM, N, F

SOCW 413 Units: 1.5
Critical Social Work Practices
Exploration of the application of various practice approaches, including narrative, solution-oriented, and embodied practices, which reflect examples of critical social work in action with individuals, groups, children, families and communities. Opportunities are provided to critically analyze the limitations and strengths of these practices through the lenses of marginalization and difference. The assumptions of professionalism and the wider context within which these particular types of interventions are practiced will also be interrogated.

Prerequisite(s):
• Either SOCW 311 and SOCW 312, or SOCW 323.

SOCW 433 Units: 1.5
Working with Trauma
An examination of current theories and practices regarding trauma work will be explored. This includes the neurobiological impact as well as the intrapsychic, interpersonal, and the socio-political/cultural dimensions of traumatic experiences. Emphasis will be placed on concrete skills and strategies that apply to a wide variety of contexts. As well, students will explore how to reduce the prevalence of secondary traumatization on themselves, colleagues, agencies and communities.

Note: Credit will be granted for only one of SOCW 433, SOCW 460 (if taken in the same topic), SOCW 533.

Prerequisite(s):
• Either SOCW 311 and SOCW 312, or SOCW 323.

SOCW 435 Units: 1.5 Hours: 3-0
Critical Perspectives in Mental Health Practice
An examination of 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):
• Either SOCW 311 and SOCW 312, or SOCW 323.

SOCW 451 Units: 1.5 Hours: 3-0
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):
• Either SOCW 311 and SOCW 312, or SOCW 323.

SOCW 452 Units: 1.5 Hours: 3-0
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.

Note: 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 460 Units: 1.5 or 3.0 Hours: 3-0
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.

SOCW 465 Units: 1.5 Hours: 3-0
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.

SOCW 469 Units: 1.5 Hours: 3-0
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-abilist 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.

SOCW 471 Units: 1.5 Hours: 3-0
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 472 - Units: 1.5  Hours: 3-0
Social Work Practice in the Field of Addictions
Critically examines current practice models in the addictions field. Differing models of change including peer helping, harm reduction, Indigenous approaches to healing, and inclusive approaches to assessment, prevention and intervention will be studied. Attention will be paid to assessment and intervention across the lifespan and with populations who are subject to marginalization and discrimination. Practice strategies for working effectively with individuals who are coping with concurrent conditions will also be explored. Students will be asked to critically examine their own personal and professional preparation for addressing addiction issues in their chosen field of practice.

Note: Students not majoring in Social Work but in their third- or fourth year may request permission to register in the course.

Prerequisite(s):
• SOCW 471, and
• admission to Bachelor of Social Work program; or
• permission of the school.

SOCW 475 - Units: 1.5  Hours: 3-0
Child Welfare Practice
An opportunity to explore all aspects of child welfare practice with a particular focus on balancing the issues of power and authority with helping approaches, identifying and resolving ethical dilemmas, and developing community-based approaches to serving families and children. Students will explore their own conceptual and philosophical orientation to child welfare practice.

Prerequisite(s): Either SOCW 311 and SOCW 312, or SOCW 323.

SOCW 476 - Units: 1.5  Hours: 3-0
Family and Child Welfare Policy
Critiques of family and child welfare policy and practice such as the feminist and Indigenous perspectives are challenging the social work profession. Provides an opportunity to critically examine 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): Either SOCW 311 and SOCW 312, or SOCW 323.

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
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
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.

SOC 190 - Units: 1.5  Hours: 2-0-1
Discovering the Social Sciences
Exploration of a specific contemporary topic in Social Sciences, such as immigration, health, climate change, or sustainability, through the multiple disciplines of Anthropology, Economics, Environmental Studies, Geography, Political Science, Psychology and/or Sociology. The topic may change from year to year.

Note: May be taken more than once for credit in different topics to a maximum of 3 units.

SOC 300 - Units: 1.5  Hours: 3-1
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.

Prerequisite(s):
• Minimum third-year standing, and
• admission to a program in Social Sciences; or
• permission of the faculty.

SOC 390 - Units: 1.5 or 3.0  Hours: 3-0
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 with permission of the faculty.

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

SPAN 100A - Units: 1.5  Hours: 3-0
Beginners’ Spanish I
Exploration of the language and cultures of the Hispanic World. Acquisition of basic skills of pronunciation, reading, writing and conversation. Includes instruction in essential points of grammar, basic syntax, and vocabulary for daily interaction.

Notes:
• Credit will be granted for only one of SPAN 100A, SPAN 100, SPAN 149.
• Not open to students with credit in Spanish 12.

Priority will be given to first- and second-year students.

SPAN 100B - Units: 1.5  Hours: 3-0
Beginners’ Spanish II
Exploration of the language and cultures of the Hispanic World. 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 SPAN 100B, SPAN 100, SPAN 149.
• Not open to students with credit in Spanish 12.

SPAN 108 - Units: 1.5  Hours: 3-0
The First Global Culture (in English)
An overview of the overseas exploration, conquest and colonization led by the Portuguese and Spanish in Africa, Asia and the Americas during the Early Modern period, creating the first global culture.
**SPAN 149**
**Units:** 3.0  **Hours:** 6-0
**Beginners’ Spanish**
Exploration of the language and cultures of the Hispanic World, equivalent to SPAN 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.

**Notes:**
- Credit will be granted for only one of SPAN 149, SPAN 100, SPAN 100A, SPAN 100B.
- Not open to students with credit in Spanish 12.

**SPAN 150**
**Units:** 1.5  **Hours:** 3-0
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 Moctezuma, Christopher Columbus, Leonardo da Vinci, Lucrezia Borgia, Maria Montessori, Benito Mussolini, Frida Kahlo, Evita Perón, La Pasionara, 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

**Hispanic Culture Through Film (in English)**
Introductory study of Spanish and Latin American film and its relationship to social and historical contexts.

**SPAN 204**
**Units:** 1.5  **Hours:** 3-0

**Experiential 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

**Topics in Hispanic Culture (in English)**
Themes and cultural trends in Latin American countries or Spain.

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

**SPAN 208A**
**Units:** 1.5  **Hours:** 3-0
Formerly: 306

**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 208B**
**Units:** 1.5  **Hours:** 3-0
Formerly: 307

**Latin American Culture Through Music (in English)**
Overview of the cultures of Spanish America and Brazil. Consideration of the artistic, literary, intellectual, social and political trends and their link to music in Latin America from pre-Columbian times to the present.

**Notes:**
- Credit will be granted for only one of SPAN 208B, SPAN 307.
- Not open to students with credit in SPAN 280.

**SPAN 249**
**Units:** 3.0  **Hours:** 6-0

**Review of Grammar and Conversation**
Continued exploration of the language and cultures of the Hispanic World, equivalent to 250A and 250B. An expansion of grammatical concepts and structures presented in beginners’ Spanish. Further development of writing, reading, speaking and listening skills. Taught mostly in Spanish.

**Note:** Credit will be granted for only one of SPAN 249, SPAN 250, SPAN 250A, SPAN 250B.

**Prerequisite(s):**
- One of Spanish 12, SPAN 100B, SPAN 149, or permission of the department.

**SPAN 250A**
**Units:** 1.5  **Hours:** 3-0

**Review of Grammar and Conversation I**

**Note:** Credit will be granted for only one of SPAN 249, SPAN 250, SPAN 250A, SPAN 250B.

**Prerequisite(s):**
- One of Spanish 12, SPAN 100B, SPAN 149, or permission of the department.

**SPAN 250B**
**Units:** 1.5  **Hours:** 3-0

**Review of Grammar and Conversation II**
Continued exploration of the language and cultures of the Hispanic World. Additional expansion of grammatical concepts and structures presented in beginners’ Spanish. Further development of writing, reading, speaking and listening skills. Taught mostly in Spanish.

**Note:** Credit will be granted for only one of SPAN 250B, SPAN 249, SPAN 250.

**Prerequisite(s):**
- One of Spanish 12, SPAN 100B, SPAN 149, or permission of the department.

**SPAN 255**
**Units:** 1.5  **Hours:** 3-0

**Communicating in Spanish**
This optional companion course to 250A will focus on reading and speaking Spanish. Short literary and journalistic texts will be used for oral practice to develop reading skills, and also for brief written assignments and film and media reports.

**Prerequisite(s):**
- Either Spanish 12, or SPAN 100A and SPAN 100B, or permission of the department.

**SPAN 250A**
**Units:** 1.5  **Hours:** 3-0

**Review of Grammar and Conversation I**

**Note:** Credit will be granted for only one of SPAN 250A, SPAN 249, SPAN 250.

**Prerequisite(s):**
- One of Spanish 12, SPAN 100B, SPAN 149, or permission of the department.

**SPAN 250B**
**Units:** 1.5  **Hours:** 3-0

**Review of Grammar and Conversation II**
Continued exploration of the language and cultures of the Hispanic World. Additional expansion of grammatical concepts and structures presented in beginners’ Spanish. Further development of writing, reading, speaking and listening skills. Taught mostly in Spanish.

**Note:** Credit will be granted for only one of SPAN 250B, SPAN 249, SPAN 250.

**Prerequisite(s):**
- One of Spanish 12, SPAN 100B, SPAN 149, or permission of the department.

**Further development of writing, reading, speaking and listening skills. Taught mostly in Spanish.**

**Note:** Credit will be granted for only one of SPAN 250A, SPAN 249, SPAN 250.

**Prerequisite(s):**
- One of Spanish 12, SPAN 100B, SPAN 149, or permission of the department.

**SPAN 265**
**Units:** 1.5  **Hours:** 3-0

**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
Formerly: part of 260

**Introduction to the Literature of Spain and Spanish America**
A study of selections from major authors of Spain and Spanish America 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 280 (if taken for 6 units).

**Corequisite(s):** SPAN 250B.

**SPAN 275**
**Units:** 1.5  **Hours:** 3-0
Formerly: part of 260

**Introductory Written Spanish**
Expands 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 275, SPAN 260, SPAN 280 (if taken for 6 units).

**Prerequisite(s):** SPAN 249 or SPAN 250B.

**SPAN 280**
**Units:** 4.5  **Hours:** 6-0

**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 300**
**Units:** 1.5  **Hours:** 3-0

**Spanish for Reading Knowledge**
Designed for the attainment of reading proficiency in Spanish. Basic Spanish grammar taught in conjunction with texts of progressive complexity.

**Note:** Not open to students who have completed second-year Spanish language courses or higher, or students who have completed only first-year Spanish within the previous three years, unless permission is granted by the department.

**Recommendation(s):** Recommended particularly for third- and fourth-year undergraduates and graduate students.

**SPAN 305**
**Units:** 1.5  **Hours:** 3-0

**Advanced Topics in Hispanic Culture (in English)**
Themes and cultural trends in Latin American countries or Spain. May be taught on-line.

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

**Prerequisite(s):** Minimum second-year standing.

**SPAN 340**
**Units:** 3.0  **Hours:** 6-0

**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.
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<thead>
<tr>
<th>COURSE LISTINGS SPAN</th>
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<tbody>
<tr>
<td><strong>SPAN 350A</strong></td>
<td>Units: 1.5</td>
<td>Hours: 3-0</td>
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<tr>
<td><strong>Formerly: first half of 350</strong></td>
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<tr>
<td><strong>Advanced Composition, Translation and Stylistics I</strong></td>
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<tr>
<td>Emphasis on the mastery of Spanish grammar and syntax through translation, composition and readings.</td>
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<td><strong>Note:</strong> Credit will be granted for only one of SPAN 350A, SPAN 350</td>
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<td><strong>Prerequisite(s):</strong></td>
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<tr>
<td>• Either SPAN 249, or SPAN 250A and SPAN 250B with a minimum GPA of 4.0; or</td>
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<td>• permission of the department.</td>
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<td><strong>SPAN 350B</strong></td>
<td>Units: 1.5</td>
<td>Hours: 3-0</td>
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<tr>
<td><strong>Formerly: second half of 350</strong></td>
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<tr>
<td><strong>Advanced Composition, Translation and Stylistics II</strong></td>
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<tr>
<td>A continuation of 350A, with continued emphasis on the mastery of Spanish grammar and syntax through translation, composition and readings.</td>
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<td><strong>Note:</strong> Credit will be granted for only one of SPAN 350B, SPAN 350</td>
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<td><strong>Prerequisite(s):</strong></td>
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<td>• SPAN 350A; or</td>
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<td>• permission of the department.</td>
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<tr>
<td><strong>SPAN 355</strong></td>
<td>Units: 1.5</td>
<td>Hours: 3-0</td>
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<tr>
<td><strong>Advanced Communicating in Spanish</strong></td>
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<td>This optional companion course to 350B will focus on developing reading, listening, and speaking skills in Spanish at an advanced level, using a variety of literary texts and films.</td>
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<td><strong>Corequisite(s):</strong> SPAN 350B</td>
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<tr>
<td><strong>SPAN 370</strong></td>
<td>Units: 1.5</td>
<td>Hours: 3-0</td>
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<tr>
<td><strong>Spanish Literature from Origins to 1700</strong></td>
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<tr>
<td>Works of major Spanish authors in the genres of narrative, drama and poetry from origins to 1700. Techniques of literary criticism are reviewed and expanded.</td>
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<td><strong>Prerequisite(s):</strong> Either SPAN 249 with a minimum grade of C+, or SPAN 250A and SPAN 250B with a minimum grade of C+ in each and a minimum GPA of 4.0.</td>
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<td><strong>SPAN 375</strong></td>
<td>Units: 1.5</td>
<td>Hours: 3-0</td>
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<tr>
<td><strong>Spanish Literature Since 1700</strong></td>
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<tr>
<td>Works of major Spanish authors in the genres of narrative, drama, and poetry from 1700 to the present. Techniques of literary criticism are reviewed and expanded.</td>
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<tr>
<td><strong>Prerequisite(s):</strong> Either SPAN 249 with a minimum grade of C+, or SPAN 250A and SPAN 250B with a minimum grade of C+ in each and a minimum GPA of 4.0.</td>
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<td><strong>SPAN 380</strong></td>
<td>Units: 1.5</td>
<td>Hours: 3-0</td>
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<tr>
<td><strong>The Invention of Spanish America, 1492 to 1900</strong></td>
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<tr>
<td>Studies the polemics of possession and of self-identification of Spanish America and its peoples as seen in major works of fiction and non-fiction. Texts discuss: the abundance of the New World; conquest, colonization and the experience of Baroque cities; the epic of resistance and rebellion; the quest for love and the search for the sublime. Techniques of literary criticism are reviewed and expanded.</td>
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<td><strong>Prerequisite(s):</strong> Either SPAN 249 with a minimum grade of C+, or SPAN 250A and SPAN 250B with a minimum grade of C+ in each and a minimum GPA of 4.0.</td>
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<td><strong>SPAN 385</strong></td>
<td>Units: 1.5</td>
<td>Hours: 3-0</td>
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<tr>
<td><strong>The Rise of Modern Latin American Literature, 1900-present</strong></td>
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<tr>
<td>Works of major Spanish American authors in the genres of narrative, drama and poetry from 1900 to the present. Techniques of literary criticism are reviewed and expanded.</td>
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<td><strong>Prerequisite(s):</strong> Either SPAN 249 with a minimum grade of C+, or SPAN 250A and SPAN 250B with a minimum grade of C+ in each and a minimum GPA of 4.0.</td>
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<td><strong>SPAN 395</strong></td>
<td>Units: 1.5</td>
<td>Hours: 3-0</td>
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<tr>
<td><strong>Intermediate Directed Reading</strong></td>
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<td>Specified reading project determined by the student, the instructor and the chair of the department; written assignments are required.</td>
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<td><strong>Note:</strong> May be taken more than once for credit in different topics with permission of the department.</td>
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<td>• SPAN 250B with a minimum grade of B-; or</td>
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<tr>
<td><strong>SPAN 408A</strong></td>
<td>Units: 1.5</td>
<td>Hours: 3-0</td>
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<tr>
<td><strong>Topics in Spanish Culture</strong></td>
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<tr>
<td>Explores the artistic, literary, intellectual, social and political trends in Spain from the Middle Ages to the present.</td>
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<td><strong>Notes:</strong></td>
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<td>• Open to native and near-native speakers.</td>
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<td><strong>SPAN 408B</strong></td>
<td>Units: 1.5</td>
<td>Hours: 3-0</td>
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<tr>
<td><strong>Topics in Latin American Culture</strong></td>
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<tr>
<td>Explores the artistic, literary, intellectual, social and political trends in Latin America.</td>
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<td><strong>Notes:</strong></td>
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<td>• permission of the department.</td>
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<td><strong>SPAN 417</strong></td>
<td>Units: 1.5</td>
<td>Hours: 3-0</td>
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<tr>
<td><strong>Global Perspectives in the Spanish-speaking World</strong></td>
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<tr>
<td>Exploration of global dynamics in the Spanish-speaking 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.</td>
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<td><strong>SPAN 450A</strong></td>
<td>Units: 1.5</td>
<td>Hours: 3-0</td>
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<tr>
<td><strong>Advanced Grammar and Syntax</strong></td>
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<tr>
<td>Bridges the grammatical knowledge acquired in previous levels and Hispanic Linguistics. Focus on refining and understanding complex grammar rules that explain the way the sentence and its components function.</td>
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<td><strong>Note:</strong> Credit will be granted for only one of SPAN 450A, SPAN 450.</td>
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<td><strong>Prerequisite(s):</strong> SPAN 350A and SPAN 350B</td>
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<td><strong>SPAN 460</strong></td>
<td>Units: 1.5</td>
<td>Hours: 3-0</td>
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<tr>
<td><strong>Hispanic Poetry</strong></td>
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<td>A chronological study of the development of poetry in Spain and other Hispanic countries chosen at the discretion of the instructor. Emphasis will be on cultural, political, and social impact of poetry.</td>
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<td><strong>Note:</strong> Open to native and near-native speakers.</td>
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<td>• SPAN 350A; or</td>
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<td><strong>SPAN 469</strong></td>
<td>Units: 1.5</td>
<td>Hours: 3-0</td>
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<tr>
<td><strong>Special Topics in Hispanic Literatures</strong></td>
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<tr>
<td>Variable content course which will focus attention on themes, literary and cultural trends, countries or authors.</td>
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<td><strong>Notes:</strong></td>
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<td>• May be taken more than once for credit in different topics.</td>
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<td>• Open to native and near-native speakers.</td>
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<td>• permission of the department.</td>
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<tr>
<td><strong>SPAN 470</strong></td>
<td>Units: 1.5</td>
<td>Hours: 3-0</td>
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<td><strong>Medieval Literature</strong></td>
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<td>A study of topics in the literature of medieval Spain, ranging from the turbulent formative period of the Reconquest to the time of the voyages of discovery. Themes may include: the epic, anti- and pro-feminism, courtly love, miracle stories and political satire.</td>
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<td><strong>Notes:</strong></td>
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<td>• Credit will be granted for only one of SPAN 470, SPAN 470A, SPAN 470B.</td>
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<td>• May be taken more than once for credit in different topics to a maximum of 3 units.</td>
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<td>Course Code</td>
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| SPAN 471B   | 1.5   | 3-0   | Miracle Stories of the Marian Tradition
Study of the miracle stories of King Alfonso X and Gonzalo de Berceo in the social and theological context of the Middle Ages. Notes: - Credit will be granted for only two of SPAN 471B, SPAN 471, SPAN 470, SPAN 470A, SPAN 470B (if taken in different topics). - Open to native and near-native speakers. Pre- or Corequisite(s): - SPAN 350A; or - permission of the department. |
| SPAN 472    | 1.5   | 3-0   | Cervantes' Don Quixote
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- or Corequisite(s): - If taken in Spanish, SPAN 350A; or - permission of the department. - If taken in English, minimum second-year standing. |
| SPAN 473A   | 1.5   | 3-0   | The Golden Age of Spanish Narrative
Study of representative texts of Spanish narrative from the 16th and 17th centuries and their interaction with culture and society. Notes: - May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units. - Open to students with credit in SPAN 473 (if taken in different topics). Open to native and near-native speakers. Pre- or Corequisite(s): - SPAN 350A; or - permission of the department. |
| SPAN 473C   | 1.5   | 3-0   | The Golden Age of Spanish Theatre
Study of representative Spanish plays from the 17th century. Emphasis on plays and skits and their interaction with culture and society. Notes: - Credit will be granted for only one of SPAN 473C, SPAN 474A, SPAN 474B. - May be taken more than once for credit in different topics with permission of the department. - Open to students with credit in SPAN 473 (if taken in different topics). Open to native and near-native speakers. Pre- or Corequisite(s): - SPAN 350A; or - permission of the department. |
| SPAN 475    | 1.5   | 3-0   | Landscapes of Desire: Visions of Self and Country
Heroics, love, and death in Renaissance and Golden Age Spain. This study of poetry as the mirror of culture will focus on the major poets. Special reference will be made to poets who also practised another art, profession, or belonged to the Church. Note: Open to native and near-native speakers. Pre- or Corequisite(s): - SPAN 350A; or - permission of the department. |
| SPAN 476A   | 1.5   | 3-0   | Spanish Literature of the 19th Century
The development of the Romantic and Realist movements in Spanish drama, poetry and novel of the last century. Selected works of major authors such as Bécquer, Pardo Bazán and Galdós will be studied in the context of the social and ideological climate of the period. Note: Open to native and near-native speakers. Pre- or Corequisite(s): - SPAN 350A; or - permission of the department. |
| SPAN 476C   | 1.5   | 3-0   | Literature of Renewal: Prose and Poetry of Spanish Fin De Siglo
Selected works of Unamuno, Baroja, “Azorín” and the poet Antonio Machado will be studied in the context of the social and intellectual crisis precipitated by the events of 1898. Note: Open to native and near-native speakers. Pre- or Corequisite(s): - SPAN 350A; or - permission of the department. |
| SPAN 478A   | 1.5   | 3-0   | The Spanish Novel From the Civil War to the Present
A study of the main currents of the modern novel in Spain, with special emphasis on individual responses to the Civil War of 1936-39 and on the development of the novel as a vehicle for social criticism. Recent trends will be examined in the light of the continuing search for new values. Note: Open to native and near-native speakers. Pre- or Corequisite(s): - SPAN 350A; or - permission of the department. |
| SPAN 478B   | 1.5   | 3-0   | 20th-Century Drama and Poetry
A study of the drama and poetry of modern Spain, covering the works of such writers as Juan Ramón Jiménez, García Lorca, Pedro Salinas and Alfonso Sastre. Notes: - Credit will be granted for only one of SPAN 478B, SPAN 412. - Open to native and near-native speakers. Pre- or Corequisite(s): - SPAN 350A; or - permission of the department. |
| SPAN 478C   | 1.5   | 3-0   | Special Topics in Modern Spanish Literature
Studies in the literature of modern Spain with special emphasis on the post-Franco period. Although primarily a study of fiction, some attention may be given to poetry and drama at the discretion of the instructor. Notes: - May be taken more than once for credit in different topics to a maximum of 3 units. - Open to native and near-native speakers. Pre- or Corequisite(s): - SPAN 350A; or - permission of the department. |
| SPAN 479A   | 1.5   | 3-0   | Women in the Hispanic and Italian World
A study of major women authors, characters and themes relevant to women’s issues in Hispanic and Italian literature. May be given in English, Spanish or Italian. Notes: - Credit will be granted for only one of SPAN 479A, ITAL 479A (if taken in same topics). - May be taken more than once for credit in different topics to a maximum of 3 units. - Open to native and near-native speakers. Pre- or Corequisite(s): - If taken in Spanish, SPAN 350A; or - permission of the department. - If taken in English, minimum second-year standing. |
| SPAN 481A, SPAN 481B | 1.5 | 3-0 | The Theatre, Prose and Poetry of Sor Juana
Study of the prose, poetry and drama of Sor Juana Inés de la Cruz (1648-95), one of the most important Hispanic writers of the Golden Age. Her works will be discussed in the context of artistic and intellectual movements in New Spain, focusing on issues including but not limited to genre, gender, religion, ethnicity and creole patriotism. Notes: - Credit will be granted for only one of SPAN 482, SPAN 480, SPAN 480A, SPAN 481 if taken in the same topic), SPAN 481A, SPAN 481B. - Open to native and near-native speakers. Pre- or Corequisite(s): - SPAN 350A; or - permission of the department. |
| SPAN 483A   | 1.5   | 3-0   | Love in the Time of Spanish American Independence
Major works in relation to the theme of love are studied within their national and/or regional context. Notes: - Credit will be granted for only one of SPAN 483A, SPAN 480C. - Open to native and near-native speakers. Pre- or Corequisite(s): - SPAN 350A; or - permission of the department. |
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 483B</td>
<td>1.5</td>
<td>3-0</td>
<td>Fiction from the &quot;Boom&quot; to the Present. Novels and short stories from the 1950s to the present. Discussion of each work within the national and/or regional context. Pre- or Corequisite(s): SPAN 350A; or permission of the department. Pre- or Corequisite(s): If taken in English, open to native and near-native speakers. Credit will be granted for only one of SPAN 483B, SPAN 480D.</td>
</tr>
<tr>
<td>SPAN 483C</td>
<td>1.5</td>
<td>3-0</td>
<td>Modern Latin American Literature and the Arts. Addresses the issues of art and aesthetics, their influence on society and politics in relation to Latin America’s thriving arts and letters. Covers literature, music, visual arts and architecture, as well as alternative means of expressions such as graffiti, performance and digital art. Note: If taken in Spanish, open to native and near-native speakers. Pre- or Corequisite(s): SPAN 350A; or permission of the department.</td>
</tr>
<tr>
<td>SPAN 484A</td>
<td>1.5</td>
<td>3-0</td>
<td>Latin American Women's Writing. A selection of women's writing in Spanish America and Brazil from the 19th century up to the present. Discussion of the relevance of each writer within her national and/or regional literature. Given in Spanish or English. Note: If taken in Spanish, open to native and near-native speakers. Pre- or Corequisite(s): If taken in Spanish, SPAN 350A; or permission of the department.</td>
</tr>
<tr>
<td>SPAN 484C</td>
<td>1.5</td>
<td>3-0</td>
<td>Conquest and Rebellion in Latin America, 1492 to 1783. Topics include the fall of the Aztec and Inka empires, the contribution of Indigenous, European and African cultures to the evolution of Latin American identities, the Brazilian &quot;plantation complex&quot; and the &quot;Great Rebellions&quot; of the 18th to the evolution of Latin American identities, the Brazilian contribution of Indigenous, European and African cultures. Topics include the fall of the Aztec and Inka empires, the Conquest and Rebellion in Latin America, 1492 to 1783.</td>
</tr>
<tr>
<td>SPAN 484D</td>
<td>1.5</td>
<td>3-0</td>
<td>The Struggle for Independence in Latin America, 1767-1867. Topics include creole patriotism, the Enlightenment and Latin America, the growth of antislavery sentiment and the emergence of Dessalines, Bolívar, Hidalgo, and Morelos as leaders of independence movements. Explores the destabilizing battles between conservatives and liberals in the newly created nations focussing on Argentina, Colombia, México and Perú. Notes: Credit will be granted for only one of SPAN 484D, HIST 471, HSTR 376B. Given in English.</td>
</tr>
<tr>
<td>SPAN 484E</td>
<td>1.5</td>
<td>3-0</td>
<td>Revolutions and Dictators in 20th Century Latin America. The Mexican, Nicaraguan and Cuban revolutions, music and nationalism, the populism of Getulio Vargas and Eva Perón, changing attitudes towards Indigenous culture and the struggle against racism in Brazil. Marxism from Mariétegui to &quot;Che&quot; Guevara, a half-century of the Castro brothers and the long history of guerrilla warfare in Colombia. How a region that produced Frida Kahlo and Tarsila do Amaral was slow to accept an enhanced role for women in the public sphere. Notes: Credit will be granted for only one of SPAN 484E, HIST 468 (if taken in the same topic), HSTR 376C. Given in English.</td>
</tr>
<tr>
<td>SPAN 485A</td>
<td>1.5</td>
<td>3-0</td>
<td>Spanish Film. A selection of major accomplishments in Spanish-language film, from the experimental cinema of Buñuel to post-Franco director Almodóvar. May be given in Spanish or English. Notes: May be taken more than once for credit in different topics to a maximum of 3 units. If taken in Spanish, open to native and near-native speakers. Pre- or Corequisite(s): If taken in Spanish, SPAN 350A; or permission of the department.</td>
</tr>
<tr>
<td>SPAN 485B</td>
<td>1.5</td>
<td>3-1</td>
<td>Latin American Film. A selection of major accomplishments in Spanish-language film in Latin America. Course content will vary to include recent trends in Mexico, Argentina, Cuba and other Latin American countries. Notes: May be taken more than once for credit in different topics to a maximum of 3 units. Open to native and near-native speakers. Pre- or Corequisite(s): SPAN 350A; or permission of the department.</td>
</tr>
<tr>
<td>SPAN 486</td>
<td>1.5</td>
<td>3-0</td>
<td>Special Topics in Hispanic American Literature. Variable content course which will focus attention on themes, literary and cultural trends, countries or authors. Notes: May be taken more than once for credit in different topics to a maximum of 3 units. Open to native and near-native speakers. Pre- or Corequisite(s): SPAN 350A; or permission of the department.</td>
</tr>
<tr>
<td>SPAN 487</td>
<td>1.5</td>
<td>3-0</td>
<td>Spain in the Pacific Northwest (in English). Study of the Spanish exploration and depiction of the Pacific Northwest, including the coastline of British Columbia, during the 18th century, as presented in the diaries of explorers such as Francisco de la Bodega y Quadra, Pere d’Alberni and Gonzalo Lopez de Haro and in letters between them and authorities in Spain and New Spain (modern-day Mexico). Prerequisite(s): Minimum second-year standing.</td>
</tr>
<tr>
<td>SPAN 489A</td>
<td>1.5</td>
<td>3-0</td>
<td>History of the Spanish Language. A study of the development of the Spanish language from its origins in Vulgar Latin to its stabilization in Cervantes’ time. Notes: Credit will be granted for only one of SPAN 489A, SPAN 425. Open to native and near-native speakers.</td>
</tr>
<tr>
<td>SPAN 489B</td>
<td>1.5</td>
<td>3-0</td>
<td>Spanish-English/English-Spanish Translation. Intensive translation practice of pragmatic texts and training in audiovisual translation and subtitling. Exploration of the tools and techniques used by professional translators. Notes: Credit will be granted for only one of SPAN 489B, SPAN 426. Open to native and near-native speakers.</td>
</tr>
<tr>
<td>SPAN 490C</td>
<td>1.5</td>
<td>3-1</td>
<td>Advanced Written Spanish. Practice in composition, translation and stylistic analysis. Attention will be given to both the formal and informal use of language. Note: Open to native and near-native speakers.</td>
</tr>
</tbody>
</table>

**Course Listings SPAN**
Statistics for Business
MATH 122 or MATH 151.

- Not open to students registered in or with credit in one of STAT 252, STAT 255.

- Credit will be granted for only one of STAT 254, STAT 250, STAT 260.

- See "Credit Limit - Beginning Level Statistics Courses".

Recommendation(s): Recommended for Honours in Hispanic Studies, Majors and Minors in Italian Studies.

Directed Reading Course
A specified reading project for fourth-year students to be determined by the student, the instructor, and the Chair of the department; written assignments will be required.

Notes:
- Credit will be granted for only one of SPAN 495, SPAN 430.
- May be taken more than once in different topics.

Prerequisite(s): Declared Honours or Major in Spanish.

Honours Graduating Essay
Honours students will write a graduating essay of 7,500 - 10,000 words, in Spanish and on an approved topic, under the direction of a member of the department. The essay must conform to acceptable standards of style and format, and be submitted before the end of Second Term classes.

Honours Graduating Essay
SPAN 499 Units: 1.5

Honours students will write a graduating essay of 7,500 - 10,000 words, in Spanish and on an approved topic, under the direction of a member of the department. The essay must conform to acceptable standards of style and format, and be submitted before the end of Second Term classes.

Note:
- Minimum third-year standing; or
- permission of the department.

Prerequisite(s):
- MATH 200.

Statistics
STAT 254 Units: 1.5

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, 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.

Statistics for Life Sciences I
STAT 255 Units: 1.5

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 254, 250, 260.

See "Credit Limit - Beginning Level Statistics Courses".

Prerequisite(s):
- MATH 200 or MATH 205.

Statistics for Life Sciences II
STAT 256 Units: 1.5

Estimation and hypothesis testing; analysis of variance and the design of experiments; regression and correlation; analysis of categorical data; distribution-free procedures. 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, Environmental Studies combined with a Science discipline, Kinesiology, and Combined Computer Science and Health Information Science.

Prerequisite(s): 1.5 units of STAT course numbered 100 or higher.

Statistics for Life Sciences II
STAT 256 Units: 1.5

Applied Regression Analysis
STAT 353 Units: 1.5

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
- one of MATH 110, MATH 133, MATH 211, MATH 233A; or
- permission of the department.

Sampling Techniques
STAT 354 Units: 1.5

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):
- STAT 256 or STAT 261; or
- permission of the department.
STAT 355 Units: 1.5 Hours: 3-0
Statistical Methods in Biology and Medicine
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: 3-1
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 300A, SOCO 371A; or
- permission of the department.

STAT 450 Units: 1.5 Hours: 3-0
Formerly: 351
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
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 350; or
- permission of the department.

STAT 454 Units: 1.5 Hours: 3-0
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
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
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
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
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
Survival Analysis
Analysis of time-tofailure 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 498 Units: 1.5 Hours: 1.5 - 4.5
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 101 Units: 3.0 Hours: 3-0
An Introduction to Theatre
A practical and theoretical introduction to play analysis, to dramatic criticism, to theatrical form, and to the principles of stage production. Attendance at live performances is required.
Notes:
- Credit will be granted for only one of THEA 101, THEA 100.
- Not open to Theatre Majors.

THEA 102 Units: 1.5 Hours: 3-0
Theatre Appreciation: From Page to Stage
A course designed to enhance understanding and appreciation of today's theatre. Assignments include watching plays on video and attendance at live theatre performances.
Notes:
- Credit will be granted for only one of THEA 102, THEA 100.
- Not open to Theatre Majors.

THEA 105 Units: 3.0 Hours: 1-3
An 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. Due to changing production schedules, labs may not always meet as timetabled.
Prerequisite(s): Admission to a program in Theatre.

THEA 111 Units: 1.5 Hours: 3-0
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.

THEA 120A Units: 1.5 Hours: 0-3
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.

THEA 120B Units: 1.5 Hours: 0-3
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.

THEA 122 Units: 1.5 Hours: 0-3
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.
THEA 132A  Units: 1.5  Hours: 0-3
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.

THEA 132B  Units: 3.0  Hours: 0-3
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.

THEA 150  Units: 1.5  Hours: 3-0
Public Speaking
An overview of the theoretical bases of speech communication; development of the vocal, verbal, and non-verbal skills of organization and presentation essential to effective communication.

THEA 205  Units: 3.0  Hours: 0-3
An Introduction to Production and Management Areas of the Theatre
Students are instructed in the basic principles and procedures of the major production and management areas of the theatre. Students will be required to successfully complete 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. Due to changing production assignments labs may not always meet as timetabled.
Prerequisite(s):
•  THEA 105; and
•  either all of THEA 111, THEA 120A, THEA 132A, or THEA 112 and THEA 120; or
•  permission of the department.

THEA 206  Units: 1.5  Hours: 3-0
Fundamentals of Play Analysis
A beginner's guide for theatre students that focuses on how to read and analyze a play text. Students learn to identify key concepts such as dramatic action, structure of event, backstory and given circumstances in preparation for their roles as interpreters or audience members of both departmental and other theatre productions.
Prerequisite(s):
•  THEA 105; and
•  either all of THEA 111, THEA 120A, THEA 132A, or THEA 112 and THEA 120; or
•  permission of the department.

THEA 218  Units: 1.5  Hours: 0-4.5-0
Acting I (for Students not pursuing the Performance Focus)
Work in characterization and scene study designed for Theatre students who are pursuing programs other than the Performance Focus.
Notes:
•  Credit will be granted for only one of THEA 218, THEA 220. Not open to students with credit in THEA 221 or THEA 222.
•  Intended for students not pursing the Performance Focus.
Prerequisite(s):
•  THEA 105; and
•  either all of THEA 111, THEA 120A, THEA 132A, or THEA 112 and THEA 120.

THEA 219  Units: 1.5  Hours: 0-4.5
Acting II (for Students not pursuing the Performance Focus)
A continuation of Theatre 218. Work in characterization and scene study designed for Theatre students who are pursuing programs other than the Performance Focus.
Note:
•  Credit will be granted for only one of THEA 219, THEA 220.
•  Not open to students with credit in THEA 221 or THEA 222.
•  Intended for students not pursing the Performance Focus.
Prerequisite(s):
•  THEA 105; and
•  either all of THEA 111, THEA 120A, THEA 132A, or THEA 112 and THEA 120.

THEA 221  Units: 1.5  Hours: 0-4.5
Acting I
Work in characterization and scene study.
Notes:
•  Credit will be granted for only one of THEA 221, THEA 220.
•  Enrolment limited.
Prerequisite(s):
•  THEA 105; and
•  either all of THEA 111, THEA 120A, THEA 132A, or THEA 112 and THEA 120; or
•  admission to BFA program with Performance Focus.

THEA 222  Units: 1.5  Hours: 0-4.5
Acting II
A continuation of Theatre 221. Work in characterization and scene study.
Note: Credit will be granted for only one of THEA 222, THEA 220.
Prerequisite(s): THEA 221.

THEA 223  Units: 1.5  Hours: 0-4.5-0
Introduction to Voice
Basic development of the voice.
Note: Enrolment limited.
Prerequisite(s):
•  THEA 105; and
•  either all of THEA 111, THEA 120A, THEA 132A, or THEA 112 and THEA 120; or
•  admission to BFA program with Performance Focus.

THEA 225  Units: 1.5  Hours: 0-4.5-0
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):
•  THEA 105; and
•  either all of THEA 111, THEA 120A, THEA 132A, or THEA 112 and THEA 120; and
•  admission to BFA program with Performance Focus.

THEA 234  Units: 1.5  Hours: 0-3
The Director and Designer Relationship
Fundamentals of developing shared vocabularies and processes necessary to the theatre director and designer relationship. Key concepts include identifying visual and oral clusters in play texts, understanding the power and potential of various stage architectures, and learning to read play texts as an act in motion. Students witness, analyze and respond to departmental and other theatre productions.
Prerequisite(s):
•  THEA 105; and
•  either all of THEA 111, THEA 120A, THEA 132A, or THEA 112 and THEA 120; or
•  permission of the department.

THEA 235  Units: 3.0  Hours: 3-0
Introduction to Applied Theatre
A broad interpretive examination of the uses of theatre in a variety of educational and non-traditional settings.
Prerequisite(s):
•  THEA 105; and
•  either all of THEA 111, THEA 120A, THEA 132A, or THEA 112 and THEA 120.

THEA 236  Units: 1.5  Hours: 3-0
Theatre History II
A survey of the history of western theatre from the Middle Ages to the closing of the English playhouses in 1642. Early forms, conventions and styles are compared with those of the contemporary theatre.
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 251  Units: 1.5  Hours: 1-3
Introduction to Design I
Developing a graphic vocabulary in the free hand idiom for the Theatre Designer.
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
Introduction to Design II
Development of drawing skills in the mechanical idiom. Drafting of ground plans, sections, elevations, orthographics and isometrics. Mechanical perspective drawing will be 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
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
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
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 309A Units: 1.5 Hours: 4-0
Formerly: 309
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 236; or
• permission of the department.
THEA 309B Units: 1.5 Hours: 4-0
Modern Opera
A continuation of 309A, investigating the history of Western opera as a theatrical genre from the late 19th century to the present.
Note: Credit will be granted for only one of THEA 309B, THEA 309.
Prerequisite(s):
• THEA 309A; or
• permission of the department.
THEA 310 Units: 1.5 Hours: 3-0
Seminar in Theatre History I
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): Set by department depending upon topic.
THEA 311 Units: 1.5 Hours: 3-0
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 236; or
• permission of the department.
THEA 312 Units: 1.5 Hours: 3-0
Also: PAAS 394
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 no, kyogen, bunraku and kabuki.
Note: Credit will be granted for only one of THEA 312, JAPA 330A, PAAS 394.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.
THEA 316 Units: 1.5 Hours: 3-0
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 236; or
• permission of the department.
THEA 317 Units: 1.5 Hours: 3-0
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 236; or
• permission of the department.
THEA 318 Units: 1.5 Hours: 3-0
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 236; or
• permission of the department.
THEA 319 Units: 1.5 Hours: 3-0
Theatre of the Renaissance in Italy, France and England
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 236; or
• permission of the department.
THEA 321 Units: 1.5 Hours: 0-4.5
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 236, or THEA 211.
THEA 322 Units: 1.5 Hours: 0-4.5
Acting IV
A continuation of 321. The study of acting as related to specific theatrical genres, styles or periods.
Note: Credit will be granted for only one of THEA 322, THEA 320.
Prerequisite(s): THEA 321.
THEA 323 - THEA 352

THEA 323 Units: 1.5 Hours: 0-4.5
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 330.
Prerequisite(s): THEA 112 and THEA 120; and
• THEA 105; and
maximum of 3 units.
Note:
Units: THEA 329
• permission of the department.
• permission of the department.
THEA 324 Units: 1.5 Hours: 0-4.5
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 325 Units: 1.5 Hours: 0-4-5-0
Stage Movement I
Intermediate stage movement.
Note: Credit will be granted for only one of THEA 325, THEA 360.
Prerequisite(s): THEA 323.
THEA 326 Units: 1.5 Hours: 0-4.5-0
Stage Movement II
A continuation of 325. Intermediate stage movement.
Note: Credit will be granted for only one of THEA 326, THEA 360.
Prerequisite(s): THEA 325.
THEA 327 Units: 1.5 Hours: 0-3
Introduction to Physical Theatre Creation
A practical course in collaborative methods of theatre-making and performance.
Prerequisite(s): Minimum second-year standing.
THEA 328 Units: 1.5 Hours: 3-0
Also: PAAS 373
The Theatre of Indonesia
A survey of 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-act theatre and drama. Readings of plays in translation will be supplemented by videos, films, and slides of performances.
Note: Credit will be granted for only one of THEA 328, PAAS 373, SEA 320.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.
THEA 329 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.
Prerequisite(s):
• THEA 105; and
• either all of THEA 111, THEA 120A, THEA 132A, or THEA 112 and THEA 120; and
• permission of the department.
Grading: COM, N, F
THEA 331 Units: 1.5 Hours: 1-2
Directing I
Fundamental textual analysis, stage composition, movement and rhythm, methods of rehearsal procedure and basic techniques of working with the actor.
Note: Credit will be granted for only one of THEA 331, THEA 330.
Prerequisite(s):
• THEA 205; and
• either THEA 206 and THEA 236, or THEA 211; and
• permission of the department.
THEA 332 Units: 1.5 Hours: 1-2
Directing II
A continuation of 331. Fundamental textual analysis, stage composition, movement and rhythm, methods of rehearsal procedure and basic techniques of working with the actor.
Note: Credit will be granted for only one of THEA 332, THEA 330.
Prerequisite(s): THEA 331.
THEA 333 Units: 1.5 Hours: 3-0
History of Dance in Canada
An examination of the history of dance in Canada. Potential topics include artistic innovations, dance as a form of social activism and the politics of the performer's body.
Note: No prior knowledge of dance is required.
Prerequisite(s):
• THEA 211; or
• permission of the department.
THEA 334 Units: 1.5 Hours: 0-3
Director and Designer Relationship II
By focussing on a specific classic or contemporary play text or devised theatre production, directors and designers will be offered the opportunity to put the concepts outlined in THEA 234 into action. Work will culminate in an end-of-term project that expresses their understanding of this semimal creative partnership.
Prerequisite(s):
• THEA 234; and
• permission of the department.
THEA 335 Units: 3.0 Hours: 0-4.5
Applied Theatre I
Advanced study of the theory and practice of Applied Theatre.
Prerequisite(s):
• THEA 205 and THEA 235; and
• either all of THEA 206, THEA 234, THEA 236, or THEA 211; or
• permission of the department.
THEA 336 Units: 1.5 Hours: 3-0
Theatre History III
A survey of western theatre history from Corneille to the Victorians. Introduction to library research methods in theatre history.
Note: Credit will be granted for only one of THEA 336, THEA 200, THEA 210.
Prerequisite(s):
• THEA 112 or THEA 236; or
• permission of the department.
THEA 337 Units: 1.5 Hours: 3-0
History of the Broadway Musical
An examination of the Broadway Musical from its genesis in the mid-nineteenth century to the present day.
Prerequisite(s):
• THEA 211 or THEA 236; or
• permission of the department.
THEA 338 Units: 1.5 Hours: 3-0
The Broadway Producer
An examination of the role of for-profit producers in the creation of shows on Broadway in New York City.
Note: Credit will be granted for only one of THEA 338, THEA 410 (if taken in the same topic).
Prerequisite(s):
• THEA 211 or THEA 236; or
• permission of the department.
THEA 339 Units: 1.5 Hours: 3-0
Performances in Popular Culture
Examines performances in such popular culture phenomena as role-playing games, fantasy/anime conventions, cosplay and board games. Draws on theories from the field of Performance Studies to examine how we perform while playing.
Note: Credit will be granted for only one of THEA 339, THEA 310 (if taken in the same topic).
Prerequisite(s): Minimum third-year standing.
THEA 348 Units: 1.5 Hours: 3-0
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 236 recommended prior to THEA 348.
THEA 349 Units: 1.5 Hours: 3-0
Lighting for the Theatre II
A continuation of THEA 348.
Note: Credit will be granted for only one of THEA 349, THEA 342.
Prerequisite(s): THEA 348.
THEA 351 Units: 1.5 Hours: 2-2
Introduction to Scenic Design
Fundamentals of three dimensional design communication and aesthetics. Model making and other graphic techniques for planning, analyzing and describing plastic space for the stage.
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 236, or THEA 211.
THEA 352 Units: 1.5 Hours: 0-4
Scenic Design
Paper projects in the design of stage settings.
Note: Credit will be granted for only one of THEA 352, THEA 340.
Prerequisite(s): THEA 351.
THEA 353 — THEA 405

THEA 353 — Units: 1.5 or 3.0 — Hours: 0-3
Assisting the Scenic 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):
- 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
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):
- THEA 351 and THEA 352; and
- permission of the department.
Recommendation(s): THEA 334 recommended prior to THEA 354.

THEA 355 — Units: 1.5 — Hours: 3-0
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
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
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
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
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
Assisting the Costume Designer
Assisting the costume designer of a mainstage production.
Note: May be taken more than once for credit to a maximum of 6 units.
Pre- or Corequisite(s):
- THEA 361; and
- permission of the department.
Recommendation(s): THEA 334 recommended prior to THEA 365.

THEA 367 — Units: 1.5 — Hours: 3-0
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
Musical Theatre Workshop: Singing
Singing for the musical stage. Included will be 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
Note: May be taken more than once for credit in different topics to a maximum of 6 units.
Prerequisite(s):
- THEA 211 or THEA 236; and
- permission of the department.

THEA 391 — Units: 1.5 or 3.0
Directed Studies in the History of Drama
Note: May be taken more than once for credit in different topics to a maximum of 6 units.
Prerequisite(s):
- THEA 211 or THEA 236; and
- permission of the department.

THEA 392 — Units: 1.5 or 3.0
Directed Studies in Theories of Acting
Note: 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
Note: May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s):
- Either THEA 211, or THEA 234 and THEA 236; 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.
Note: May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s):
- THEA 205; and
- permission of the department.

THEA 395 — Units: 1.5 or 3.0
Directed Studies in Production and/or Management
Note: May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s):
- THEA 352; and
- permission of the department.

THEA 396 — Units: 1.5 or 3.0
Directed Studies in Costume Design
Note: 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
Note: 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 - THEA 436

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
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</table>
| THEA 409    | 1.5   | 3-0   | Theories of Acting  
From Plato to Robert Lepage.  
**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 236; or  
- permission of the department. |
| THEA 410    | 1.5   | 3-0   | 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 236; or  
- permission of the department. |
| THEA 411    | 1.5   | 3-0   | 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 236; or  
- permission of the department. |
| THEA 412    | 1.5   | 3-0   | 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 shinpa, shingeki, angura and butô. Drama, dance and other performance arts are discussed.  
**Note:** Credit will be granted for only one of THEA 412, PAAS 312 (if taken prior to May 2011), PAAS 394, PAAS 486 (if taken prior to May 2011), JAPA 320A.  
**Prerequisite(s):**  
- Minimum third-year standing; or  
- permission of the department. |
| THEA 414    | 1.5   | 3-0   | Studies in Canadian Theatre and Drama  
Canadian theatre and drama.  
**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 236; or  
- permission of the department. |
| THEA 415    | 1.5   | 3-0   | 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    | 1.5   | 3-0   | 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    | 1.5   | 0-4.5 | 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    | 1.5   | 0-4.5 | 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    | 1.5   | 0-4.5 | 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    | 1.5   | 0-4.5 | Voice and Speech in the Theatre IV  
A continuation of THEA 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    | 1.5   | 0-4.5 | 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    | 1.5   | 0-4.5 | 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    | 1.5   | 3-0   | 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 329; and  
- permission of the department.  
**Grading:** COM, N, F |
| THEA 431    | 1.5   | 3-0   | 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. |
| THEA 432    | 1.5 or 3.0 | 3-0 | Directing IV  
A continuation of 431.  
**Note:** Credit will be granted for only one of THEA 432, THEA 430.  
**Prerequisite(s):**  
- THEA 431; and  
- permission of the department. |
| THEA 433    | 1.5 or 3.0 | 3-0 | Directing for Production  
Directing 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 435    | 3.0   | 3-0   | 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 436    | 1.5   | 3-0   | Theatre History IV  
A survey of theatre from the late 19th century to the present day.  
**Note:** Credit will be granted for only one of THEA 436, THEA 200, THEA 211.  
**Prerequisite(s):**  
- THEA 210 or THEA 336; or  
- permission of the department. |
THEA 453 - 1.5-6.0 units, 0.0-3 to 12.0 hours
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 351; and
- permission of the department.

THEA 454 - 1.5 or 3.0 units, 0.0-3 hours
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 - 1.5 to 6.0 units, 0.0-1.5 to 12.0 hours
Costume Design for Production
Supervised design and production in the execution of costumes for theatre production. Students will work with directors on design concepts, and carry out research. They will then prepare designs and see them through the construction process and unto the stage.
Note: May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s):
- THEA 315 and THEA 352; and
- permission of the department.
Recommendation(s): THEA 334 recommended prior to THEA 465.

THEA 490 - 1.5 or 3.0 units
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 - 1.5 or 3.0 units
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.

TS - Technology and Society
Interdisciplinary Programs

TS 200 - 1.5 units, 3.0 hours
Introduction to the Human Uses of Technology
Explores approaches to understanding media, communication, and technology with an emphasis on the critical appreciation of social, cultural, and political impacts of technology on contemporary society. Focuses on what current events teach us about the human uses of technology, and the influence of technology on humans.

TS 300 - 1.5 units, 3.0 hours
Networking, New Media and Social Practices
Explores the hands-on application of social networking and personal technological devices, and their consequences for society. Engages virtual and mobile technologies for their contributions to personal, social, and cultural understanding. Requires written and practical engagement with social networking and communications technologies.

TS 310 - 1.5 units, 3.0 hours
Critical Skills for Online Identity Management
Explores established and emerging technologies, security and privacy issues, communication strategies and critical practices required to establish and maintain a professional online presence.
Note: Credit will be granted for only one of TS 310, TS 320 (if taken in the same topic).

TS 320 - 1.5 units, 3.0 hours
Special Topics in Technology and Society
Explores contemporary issues related to technology and society from an interdisciplinary perspective.
Note: May be taken more than once for credit in different topics with permission of the program.

TS 390 - 1.5 units, 3.0 hours
Directed Studies in Technology and Society
An investigation or research project on a specific theme or topic in the field of Technology and Society.
Note: May be taken more than once in different topics to a maximum of 4.5 units.
Prerequisite(s):
- All of TS 200, TS 300, TS 400; and
- permission of the program.

TS 400 - 1.5 units, 3.0 hours
Technologies of the Future
Seminars on cutting-edge research in technology and society. Explores current thoughts on technological change, visualization trends, and political and social uses of technology.

VIRS - Visiting International Research Studies
Interdisciplinary Programs

VIRS 301 - 6.0 units
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 - 6.0 units
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 - 6.0 units
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 - 6.0 units
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

VIRS 305 - 6.0 units
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

VIRS 306 - 6.0 units
Visiting International Research Studies: 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
WRIT 109 Units: 1.5 Hours: 3-0
The Writer's World in Books and Film
This lecture course, which is open to students in all faculties, explores a selection of authors through an analysis of their writing in various genres and a study of films that show us their working methods and details of their lives. Students will meet guest authors who will read from their publications and discuss the writing process.
Note: This course is not a prerequisite for entry into any other writing course. Open to all students.

WRIT 120 Units: 1.5 Hours: 3-0
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
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 201 Units: 3.0 Hours: 0-3
Poetry Workshop
A seminar and workshop in the writing of poetry.
Notes:
• Credit will be granted for only one of WRIT 201, CW 201.
• Class size is limited.
Prerequisite(s): WRIT 100 with a minimum grade of B or CW 100E with a minimum grade of B.

WRIT 202 Units: 3.0 Hours: 0-3
Fiction Workshop
A seminar and workshop in the writing of fiction.
Notes:
• Credit will be granted for only one of WRIT 202, CW 202.
• Class size is limited.
Prerequisite(s): WRIT 100 with a minimum grade of B or CW 100E with a minimum grade of B.

WRIT 203 Units: 3.0 Hours: 0-3
Playwriting Workshop
A seminar and workshop in writing for the stage.
Notes:
• Credit will be granted for only one of WRIT 203, CW 203.
• Class size is limited.
Prerequisite(s):
• Either WRIT 100 with a minimum grade of B or CW 100E with a minimum grade of B, or
• all of THEA 105, THEA 111, THEA 112, THEA 120 with a minimum GPA of 5.0.

WRIT 204 Units: 3.0 Hours: 0-3
Creative Nonfiction Workshop
A seminar and workshop in the writing of creative nonfiction.
Note: Class size is limited.
Prerequisite(s): WRIT 100 with a minimum grade of B or CW 100E with a minimum grade of B.

WRIT 215 Units: 1.5 Hours: 3-0
Journalism
A lecture course in the theory and practice of journalism in Canada with an emphasis on local news beat writing.
Note: Credit will be granted for only one of WRIT 215, WRIT 205.
Prerequisite(s): 3 units of the following courses with a minimum grade of B in each course: WRIT 100, WRIT 102, WRIT 120, WRIT 140, ENGL 135, ENGL 146, ENGL 147, ENGL 215, ECON 225, ENGR 240.

WRIT 218 Units: 3.0 Hours: 0-3
Screenwriting Workshop
A seminar and workshop in writing for the screen.
Note: Class size is limited.
Prerequisite(s): WRIT 100 with a minimum grade of B or CW 100E with a minimum grade of B.

WRIT 230 Units: 1.5 Hours: 1-2
Special Study in Craft
A workshop/seminar in which students will focus on particular elements of writing applicable to more than one genre.
Note: May be repeated once in different topics.
Prerequisite(s): Minimum second-year standing.

WRIT 302 Units: 1.5 Hours: 0-3
Poetry Workshop
A workshop in the writing of poetry.
Notes:
• May be repeated once.
• Class size is limited.
Prerequisite(s):
• WRIT 201 with a minimum grade of B, or
• permission of department.

WRIT 303 Units: 1.5 Hours: 0-3
Fiction Workshop
A workshop in the writing of fiction.
Notes:
• May be repeated once.
• Class size is limited.
Prerequisite(s):
• WRIT 202 with a minimum grade of B, or
• permission of department.

WRIT 304 Units: 1.5 Hours: 0-3
Playwriting Workshop
A workshop in the writing of drama for the stage.
Notes:
• May be taken more than once for credit to a maximum of 3 units.
• Class size is limited.
Prerequisite(s):
• WRIT 203 with a minimum grade of B, or
• permission of department.
A lecture and laboratory course in the theory and practice of digital publishing.

**Note:** Credit will be granted for only one of WRIT 306, WRIT 306B, CW 306B.

**Prerequisite(s):** Minimum second-year standing.

### WRIT 307

**Basic Forms and Techniques in Poetry**

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.

**Note:** Credit will be granted for only one of WRIT 307, CW 307.

**Prerequisite(s):** Minimum second-year standing.

### WRIT 308

**Advanced Forms and Techniques in Poetry**

A lecture course surveying formal structures in poetry in a representative group of poems. Topics discussed include poetic closure, the sonnet, sestina, villanelle and ghazal, and the influence of early 20th century poetic movements such as imagism on contemporary poetic forms.

**Note:** Credit will be granted for only one of WRIT 308, CW 308.

**Prerequisite(s):** Minimum second-year standing.

### WRIT 309

**Basic Forms and Techniques in Short Fiction**

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.

**Note:** Credit will be granted for only one of WRIT 309, CW 309.

**Prerequisite(s):** Minimum second-year standing.

### WRIT 310

**Basic Forms and Techniques in the Novel**

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.

**Note:** Credit will be granted for only one of WRIT 310, CW 310.

**Prerequisite(s):** Minimum second-year standing.

### WRIT 311

**Structure in Stage Drama**

A lecture course surveying the structural characteristics of stage drama.

**Note:** Credit will be granted for only one of WRIT 311, CW 311.

**Prerequisite(s):** Minimum second-year standing.

### WRIT 312

**Structure in Cinema and Television Drama**

A lecture course surveying the structural characteristics of screen drama, making use of published film and television scripts, and of actual films.

**Note:** Credit will be granted for only one of WRIT 312, CW 312.

**Prerequisite(s):** Minimum second-year standing.

### WRIT 313

**Recurrent Themes**

A lecture course surveying recurrent themes in film and/or English literature and in other literatures in translation.

**Notes:**
- Credit will be granted for only one of WRIT 313, CW 313.
- May be taken more than once for credit in different topics to a maximum of 3 units.

**Prerequisite(s):** Minimum second-year standing.

### WRIT 314

**Changing Perspectives**

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.

**Notes:**
- Credit will be granted for only one of WRIT 314, CW 314.
- May be taken more than once for credit in different topics to a maximum of 3 units.

**Prerequisite(s):** Minimum second-year standing.

### WRIT 315

**Advanced Journalism**

A lecture/seminar course in the techniques of investigative news-gathering and feature writing.

**Note:** Credit will be granted for only one of WRIT 315, CW 315A, CW 315B.

**Prerequisite(s):** WRIT 215.

### WRIT 316

**Creative Nonfiction Workshop**

A workshop in the writing of creative nonfiction.

**Notes:**
- Credit will be granted for only one of WRIT 316, CW 316A, CW 316B.
- May be taken more than once for credit in different topics to a maximum of 3 units; however, credit may count either toward a Major in Writing or toward a Professional Writing Minor, not both.
- Class size is limited.

**Prerequisite(s):**
- WRIT 204 with a minimum grade of B-; or
- permission of the department.

### WRIT 318

**Screenwriting Workshop**

A workshop in writing for the screen.

**Notes:**
- May be taken more than once for credit in different topics to a maximum of 3 units.
- Class size is limited.

**Prerequisite(s):**
- WRIT 218 with a minimum grade of B-; or
- permission of department.
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<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Course Title</th>
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<td>WRIT 330</td>
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<td>Media and Culture</td>
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<td>WRIT 331</td>
<td>1.5</td>
<td>3-0</td>
<td>A Study of Narrative</td>
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<td>WRIT 335</td>
<td>1.5</td>
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<td>Forms and Techniques in Short Creative Nonfiction</td>
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<td>Forms and Techniques in Long Creative Nonfiction</td>
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<td>WRIT 340</td>
<td>1.5</td>
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<td>Elements of Style</td>
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<td>WRIT 350</td>
<td>1.5</td>
<td>3-0</td>
<td>The Theory and Practice of Literary Creation</td>
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<td>Writing a Sense of Place</td>
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<td>Special Genres Workshop</td>
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<td>Advanced Poetry Workshop</td>
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<td>Advanced Fiction Workshop</td>
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<td>Advanced Playwriting Workshop</td>
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<td>WRIT 415</td>
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<td>Literary Adaptation</td>
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<td>Advanced Creative Nonfiction Workshop</td>
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<td>Advanced Screenwriting Workshop: A workshop in writing for the screen. Notes:</td>
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<td>Film Writing and Production Workshop: An advanced workshop in narrative film writing and the techniques of film production. Notes:</td>
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<td>The Writing Business: A lecture course that prepares students for careers as writers. Notes:</td>
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<td>Directed Studies in Writing: Granted under special circumstances only. Under the supervision of a full-time faculty member and with the approval of the Chair of the department. Notes:</td>
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