Courses of Instruction

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

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

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

#### Division of Medical Sciences

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#### Faculty of Education

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<td>FA</td>
<td>Fine Arts</td>
<td>Interdisciplinary Courses</td>
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<td>MUS</td>
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<td>AGEI</td>
<td>Ageing</td>
<td>School of Public Health and Social Policy</td>
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<td>CYC</td>
<td>Child and Youth Care</td>
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<td>CYCB</td>
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<td>FRAN</td>
<td>French Department of French</td>
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<td>Gender Studies Department of Gender Studies</td>
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<td>Humanities</td>
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<tr>
<td>ITAL</td>
<td>Italian Department of Hispanic and Italian Studies</td>
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<td>LAS</td>
<td>Latin American Studies Latin American Studies Program</td>
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<td>RS</td>
<td>Religious Studies Religious Studies Program</td>
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<td>SLST</td>
<td>Slavic Studies Department of Germanic and Slavic Studies</td>
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### Faculty of Law

| LAW   | Law |

### Faculty of Science

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<td>BIOL</td>
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</tr>
<tr>
<td>CHEM</td>
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<tr>
<td>EOS</td>
<td>Earth and Ocean Sciences School of Earth and Ocean Sciences</td>
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<td>Mathematics Department of Mathematics and Statistics</td>
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<td>MICR</td>
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<td>MRNE</td>
<td>Marine Science Department of Biology</td>
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### Faculty of Social Sciences

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<td>ER</td>
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<td>GEOG</td>
<td>Geography Department of Geography</td>
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<td>POLI</td>
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### PSYC Psychology
Department of Psychology

### SOCI Sociology
Department of Sociology

### Interdisciplinary Programs

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<td>Human Dimensions of Climate Change</td>
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### Peter B. Gustavson School of Business

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## Courses by Subject Area

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Software Engineering.............................................SENG
Faculty of Engineering

Spanish..........................................................................................SPAN
Faculty of Humanities

Statistics.........................................................................................STAT
Faculty of Science

Technology and Society..............................................................TS

Interdisciplinary Programs

Theatre.......................................................................................THEA
Faculty of Fine Arts

Visual Arts...................................................................................ART
Faculty of Fine Arts

Writing.......................................................................................WRIT
Faculty of Fine Arts
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.

For more information on how to read prerequisites, please see <www.uvic.ca/prereq>.

Units of Credit
This figure is the number of units of credit assigned to each course. Some courses are listed with a range of units (1.5-3). Further information on the unit value of the course will usually be found in the course description. Students may also contact the department or faculty offering the course for information on variable credit courses.

Hours of Instruction
The numbers refer to the hours of instruction per week:
- first digit: hours assigned for lectures or seminars
- second digit: hours assigned for laboratory or practical sessions
- third digit: hours assigned to tutorials

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
Formerly: 403.

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

ADMN 411  
Units: 1.5

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

ADMN 420  
Units: 1.5

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

ADMN 421  
Units: 1.5

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

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

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

ADMN 431B Units: 1.5
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.

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

ADMN 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 433, ADMN 445, ADMN 452; 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, value and vision statements; environmental scanning; transforming strategic plans into policies and programs; management tactics; and assessing organizational performance. Implementation topics include: deploying resources; quality control; strategic communication; budgeting; team building; problem solving; progress assessment; completion; and evaluation.
Note: Credit will be granted for only one of ADMN 477, ADMN 411, ADMN 412, ADMN 470 (if taken in the same topic), ADMN 577.

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

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

ADMN 490 Units: 1.5
Directed Studies
Directed reading and/or a research project under the supervision of a Faculty Member.
Prerequisite(s): Permission of the school.
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-D, ED-P, EDCI, EPHE, IA, IED, IE, ME.

**AE 103A**

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

Formerly: part of 103

**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 those 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, EDCI 307, EDCI 307A, EDCI 307B, EDUC 307.
- Students planning to emphasize art in their degree program should register in this course.

**AE 103B**

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

Formerly: part of 103

**Introduction to Art Education II**

A continuing investigation of studio processes and art concepts as well as methods of instruction appropriate to children and youths 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, EDCI 307, EDCI 307A, EDCI 307B, EDUC 307.
- Students planning to emphasize art in their degree program should register in this course.

**AE 200**

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

**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.

**AE 201**

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

**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.

**AE 303A**

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

Formerly: part of 303

**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 303B**

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

Formerly: part of 303

**Ceramics II**

Continued skill development in ceramics techniques/aesthetics through historical, political and environmental based projects.

**Note:** Credit will be granted for only one of AE 303B, AE 303.

**Prerequisite(s):** AE 303A.

**AE 305**

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

**Drawing**

Development of skills and teaching methods in drawing through studio exploration. Instructional applications in various learning environments are considered.

**Note:** Credit will be granted for only one of AE 305, AE 302.

**AE 306**

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

**Painting**

Development of skills and teaching methods in painting through studio exploration. Instructional applications in various learning environments are considered.

**Notes:**
- Credit will be granted for only one of AE 306, AE 302.
- Supply list available from MacLaurin A430.

**AE 307**

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

**Printmaking**

An introduction to printmaking including its history, related concepts, and selected studio techniques. Exploration and experimentation are emphasized as a means of skill development. Instructional applications in various learning environments are considered.

**Note:** Credit will be granted for only one of AE 307, AE 300.

**AE 308**

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

**Sculpture**

Development of skills and teaching methods in sculpture through studio exploration. Instructional applications in various learning environments are considered.

**Note:** Credit will be granted for only one of AE 308, AE 301.

**AE 309**

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

**Ceramics: Hand Building**

Studio experience in the methods and techniques of hand-built ceramics and their application to different levels of student development, appropriate curriculum, assessment, and critiquing strategies.

**Note:** Credit will be granted for only one of AE 309, AE 302.

**AE 310**

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

**Introduction to Applied Design**

Introduction to skills and teaching methods in selected applied design areas through studio exploration.

**Note:** Credit will be granted for only one of AE 310, AE 304.

**AE 314**

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

**Introduction to Community Art Education**

Investigates creative learning through community art education. Combining observation at a community centre, drop-in programme or gallery with studio research, students will develop and propose an art education curriculum designed to serve a specific community’s art educational goals. Includes off-campus involvements.

**AE 317**

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

**Responding to Art**

Methods of teaching art through appreciation, creative response and critique with an emphasis on Canadian art. An investigation of art from the perspectives of aesthetics, art history, and art criticism. Students will prepare educational materials.

**Note:** Credit will be granted for only one of AE 316, AE 317.

**AE 319**

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

**Photography**

Basic approaches to photography as an art medium. An exploration of concepts and methods appropriate to elementary and secondary classrooms and other educational settings from simple technologies such as photograms and pinhole photography to 35 mm cameras and darkroom procedures.

**AE 320**

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

**Art and the Young Child**

Study of characteristics and development of early childhood art through teaching and practical work and survey of evaluation methods for effective instruction.

**AE 322**

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

**Digital Arts**

An introductory survey of digital media production focusing on graphics, 2D animation, 3D modelling and animation, audio, video, and website construction. Students will learn to generate media ideas, collect resources, construct and edit concepts using industry-standard software packages. Emphasizes the production and teaching of digital media for creative, educational, and commercial environments. No previous computer experience is required.

**AE 330**

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

**Visual Design for Marketing, Advocacy and Persuasion**

Focus is primarily on design for marketing within the context of its persuasive role in education and educational advocacy. Explores visual design as a problem-solving approach in the development of high impact communication through a combination of theory and studio practice.

**AE 401**

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

**Special Studies**

Studies of selected topics in the theory and practice of art education.

**Note:** May be taken more than once for credit in different topics with permission of the department to a maximum of 6 units.

**AE 402**

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

**Directed Studies in Specific Methodologies, Materials and Techniques in Art Education**

**Note:** A student may take up to a maximum of 6 units of the below areas; however, the maximum number of units accepted for credit on the student’s degree program will be at the discretion of the department. Letter designations identify discrete areas for advanced study. In the interest of gaining breadth experiences, students taking more than 1.5 units of 402 should not repeat an area.
**AE 402A - AHVS 200**

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<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Notes</th>
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<tbody>
<tr>
<td><strong>AE 402A</strong></td>
<td>1.5</td>
<td><strong>Drawing</strong></td>
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<tr>
<td><strong>Prerequisite(s):</strong></td>
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<td>AE 305.</td>
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<tr>
<td><strong>AE 402B</strong></td>
<td>1.5</td>
<td><strong>Painting</strong></td>
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<td><strong>Prerequisite(s):</strong></td>
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<td>AE 306.</td>
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<td><strong>AE 402C</strong></td>
<td>1.5</td>
<td><strong>Printmaking</strong></td>
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<td>AE 307.</td>
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<td><strong>AE 402D</strong></td>
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<td><strong>Sculpture</strong></td>
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<td>AE 308.</td>
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<td><strong>AE 402E</strong></td>
<td>1.5</td>
<td><strong>Applied Design</strong></td>
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<td>AE 310.</td>
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<td><strong>AE 402F</strong></td>
<td>1.5</td>
<td><strong>Photography</strong></td>
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<td><strong>Prerequisite(s):</strong></td>
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<td>AE 319.</td>
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**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, and have a particular emphasis on current issues, trends, and cultural contexts. Similarly, courses numbered 300 generally consist of introductory level surveys of broad, thematic areas within Art History and Visual Studies. Courses numbered 400 (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**

**Units:** 1.5

**Hours:** 3-0

**First-Year Seminar on Art, Images, Experience**

Experiential introduction to the diverse contexts in which we encounter art and images today. Students 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**

**Units:** 1.5

**Hours:** 2-0-1

**Formerly:** HA 120

**Exploring World Art**

An introductory survey of visual culture and aesthetic 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**

**Units:** 1.5

**Hours:** 2-0-1

**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**

**Units:** 1.5 or 3.0

**Hours:** 3-0

**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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
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<tbody>
<tr>
<td>AHVS 202</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HA 202&lt;br&gt;Confronting the Object&lt;br&gt;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.</td>
</tr>
<tr>
<td>AHVS 222</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HA 222&lt;br&gt;The Classical Tradition in Western Art&lt;br&gt;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.</td>
</tr>
<tr>
<td>AHVS 233</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HA 233&lt;br&gt;Introduction to Western Architecture&lt;br&gt;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 233, HA 233.</td>
</tr>
<tr>
<td>AHVS 230</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HA 230&lt;br&gt;Monuments of South and Southeast Asia&lt;br&gt;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.</td>
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<tr>
<td>AHVS 283</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HA 283&lt;br&gt;Sacred Form in South / Southeast Asian Art&lt;br&gt;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 283, HA 283.</td>
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<tr>
<td>AHVS 234</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HA 234&lt;br&gt;Encountering Renaissance Art&lt;br&gt;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 Sophonisba Anguissola. Note: Credit will be granted for only one of AHVS 234, HA 234.</td>
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<tr>
<td>AHVS 241</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HA 241&lt;br&gt;The Image of the Artist&lt;br&gt;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.</td>
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<tr>
<td>AHVS 251</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HA 251&lt;br&gt;Introduction to the Arts of Islam&lt;br&gt;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.</td>
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<tr>
<td>AHVS 260</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HA 260&lt;br&gt;Art Icons: Modern and Contemporary&lt;br&gt;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.</td>
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<tr>
<td>AHVS 264</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HA 264&lt;br&gt;Art History and the Lens&lt;br&gt;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.</td>
</tr>
<tr>
<td>AHVS 284</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HA 284, part of HA 382A&lt;br&gt;Indigenous Arts: Local Themes and Global Challenges&lt;br&gt;Explores values and philosophies conveyed by First Nations arts of the Northwest Coast. Examines how older and contemporary arts reflect human connections with the environment, roles of arts and artists in 21st-century events and activism, arts and the Internet, diversity of cultural expressions and relevance to global challenges such as climate change. Note: Credit will be granted for only one of AHVS 284, HA 284, HA 382A (if taken prior to Sep-Dec 1999).</td>
</tr>
<tr>
<td>AHVS 292</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HA 292&lt;br&gt;Selected Themes in Art History and Visual Studies&lt;br&gt;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.</td>
</tr>
<tr>
<td>AHVS 295A</td>
<td>1.5</td>
<td>3-1</td>
<td>Formerly: part of HA 295, HA 295A&lt;br&gt;Introduction to Film Analysis&lt;br&gt;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.</td>
</tr>
<tr>
<td>AHVS 295B</td>
<td>1.5</td>
<td>3-1</td>
<td>Formerly: part of HA 295, HA 295B&lt;br&gt;Introduction to Film Studies&lt;br&gt;An investigation of film culture and its relationship to social and historical contexts. Considers key issues in film scholarship, critical strategies and theoretical concepts. Involves a three hour lecture/screening and a one hour tutorial a week. Note: Credit will be granted for only one of AHVS 295B, HA 295, HA 295B.</td>
</tr>
<tr>
<td>AHVS 300A</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HA 300A&lt;br&gt;Masterpieces of Art and Architecture&lt;br&gt;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.</td>
</tr>
<tr>
<td>AHVS 300B</td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HA 300B&lt;br&gt;Fakes, Forgeries and Fraud&lt;br&gt;Case studies examine art crimes in different regions and periods. Introduces historical, legal and forensic issues related to authentication and object recovery.</td>
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<td>Course Code</td>
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<tr>
<td>AHVS 300C</td>
<td>The Destruction of Art</td>
<td>1.5</td>
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<tr>
<td>AHVS 310A</td>
<td>Making Art History</td>
<td>1.5</td>
<td>3-0</td>
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<tr>
<td>AHVS 310B</td>
<td>Presenting Digital Art History</td>
<td>1.5</td>
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<tr>
<td>AHVS 310C</td>
<td>Digital Tools for Art History and Visual Studies</td>
<td>1.5</td>
<td>1-2</td>
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<tr>
<td>AHVS 310D</td>
<td>Environmental Art</td>
<td>1.5</td>
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<tr>
<td>AHVS 310E</td>
<td>Topics in Craft and Communities</td>
<td>1.5</td>
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<tr>
<td>AHVS 310F</td>
<td>Modern and Contemporary Design</td>
<td>1.5</td>
<td>3-0</td>
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<tr>
<td>AHVS 311A</td>
<td>Visual Intelligence</td>
<td>1.5</td>
<td>3-0</td>
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<tr>
<td>AHVS 311B</td>
<td>Looking and the History of Perception</td>
<td>1.5</td>
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<tr>
<td>AHVS 311C</td>
<td>The Sacred Gaze</td>
<td>1.5</td>
<td>3-0</td>
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<tr>
<td>AHVS 311D</td>
<td>Artists and Art History in Popular Culture</td>
<td>1.5</td>
<td>3-0</td>
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<tr>
<td>AHVS 311E</td>
<td>History of Video Games and Interactive Media</td>
<td>1.5</td>
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<tr>
<td>AHVS 311F</td>
<td>Horror Video Games</td>
<td>1.5</td>
<td>3-0</td>
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<tr>
<td>AHVS 312</td>
<td>Gender, Identity and Film</td>
<td>1.5</td>
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<tr>
<td>AHVS 321</td>
<td>Late Antique and Early Christian Art</td>
<td>1.5</td>
<td>3-0</td>
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<tr>
<td>AHVS 323</td>
<td>Byzantine Art</td>
<td>1.5</td>
<td>3-0</td>
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</tbody>
</table>
AHVS 324 Units: 1.5 Hours: 3-0
Formerly: HA 324
Ancient and Medieval Jewish Art
An introductory survey of the visual and material culture of Judaism in Israel and among the communities of the Diaspora from the first century CE to the 16th century CE. Major topics of interest are: the architectural evolution of the synagogue; changing attitudes to the figure of the rabbi in a religious context; the arts of the book; and the artistic interactions with the visual traditions of Christian and Muslim communities.
Note: Credit will be granted for only one of AHVS 324, HA 324.

AHVS 326 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 reconstructions of St. Denis c. 1140 to the beginnings of Renaissance art in Florence c. 1400. Focuses primarily on architecture in northern Europe and on painting in Italy, with a concentration on artists from the cities of Florence, Rome and Siena.
Note: Credit will be granted for only one of AHVS 328, HA 328.

AHVS 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 332 (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 contemporaryart, 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 Primal religious communities will be discussed with attention to gender and historiography. Indigenous texts and film will be used as source materials and basis for discussion.
Notes:
• Credit will be granted for only one of AHVS 333A, HA 333, HA 333A.
• Normally to be offered in alternate years with AHVS 330A, AHVS 330B.

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

AHVS 337 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/orglobal 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 341B.
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 341C  Units: 1.5  Hours: 3-0
Formerly: HA 341C
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 341C, HA 341C.

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, Bernini, Artemisia Gentileschi, Pietro da Cortona and Bonomini.
Note: Credit will be granted for only one of AHVS 342A, 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 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 344A  Units: 1.5  Hours: 3-0
The Art of Travel 1200-1600
Uses art, architecture and material culture to analyze medieval and early Modern travel experiences. Examines topics concerned with travel, such as spiritual quest, warfare, adventure and social display.

AHVS 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, spectacle, professional and amateur arts. Considers the broader global context and assesses modern film and video interpretations of the period.
Note: Credit will be granted for only one of AHVS 346C, HA 346C.

AHVS 348  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 Ilkhanids, 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.

AHVS 362B - Units: 1.5 - Hours: 3-0
Formerly: HA 362B

Art in Europe and North America: 1945 to Today
An examination of directions taken in postwar art. Emphasis will be placed on the demise of the Modernist movement and the emergence of Postmodernism. Singled out for investigation will be such areas as Abstract Expressionism, Minimalism, Pop Art, conceptual and performance art, environmental art, and photo-based practices.

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

AHVS 362C - Units: 1.5 - Hours: 3-0

Critical Issues in Contemporary Art
Examines selected examples of contemporary art in the context of critical debates, art institutions, the art market and activism. Geographic focus of area of focus may vary.

AHVS 363 - Units: 1.5 - Hours: 3-0
Formerly: HA 363

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

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

AHVS 364 - Units: 1.5 - Hours: 3-0
Formerly: HA 364

Documentary Film
An intensive study of film as document of time, place and action. Influence of social and artistic context will be considered. Attention will be largely directed to Canadian documentary films, a leader in this genre today. Films studied may include works by Flaherty, Grierson, Lorentz, Riefenstahl, Wiseman, National Film Board.

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

AHVS 365 - Units: 1.5 - Hours: 3-0
Formerly: HA 365

Experimental Film
Film as art. Investigates a wide variety of experimental forms and covers a range of historical periods and contexts. Emphasis will be placed on analyses of key films and on theories of films developed by both artists and critics. Particular attention will be paid to the Canadian experimental tradition.

Notes:
- Credit will be granted for only one of AHVS 365, HA 365.
- Priority is given to students with minimum third-year standing.

AHVS 367 - Units: 1.5 - Hours: 2-1
Formerly: HA 367

History in Cinema
Cinema as a product of time and place. Emphasis will be placed on the relationship between particular film movements and genres and their historical contexts and on theories about the role and function of film in society.

Notes:
- Credit will be granted for only one of AHVS 367, HA 367.
- Priority is given to students with minimum third-year standing.

AHVS 368B - Units: 1.5 - Hours: 3-0
Formerly: half of HA 368, HA 368B

Modern and Contemporary Canadian Art
A history of the visual arts (painting, sculpture, installation and performance art) from Tom Thomson and the Group of Seven to the present.

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

AHVS 369 - Units: 1.5 - Hours: 3-0
Formerly: HA 369

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

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

AHVS 370A - Units: 1.5 - Hours: 3-0
Formerly: HA 370, HA 370A

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

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

AHVS 370B - Units: 1.5 - Hours: 3-0
Formerly: HA 370B

Hollywood Genres
An introduction to the study of Hollywood genres such as westerns, musicals, romantic comedies and science fiction films. Focuses on their stylistic characteristics, historical evolution, and social function. Attention is paid to the relationships among genres and to hybrid forms created when conventions are blended.

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

AHVS 370C - Units: 1.5 - Hours: 3-0
Formerly: HA 370C

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

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

AHVS 370D - Units: 1.5 - Hours: 3-0
Formerly: HA 370D

Canadian Film
An exploration of the history, diverse tendencies and key figures in Canadian Film. Includes developments in fiction, documentary and experimental films.

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

AHVS 372A - Units: 1.5 - Hours: 3-0

Chinese Art and Architecture
An introductory survey from Neolithic times to the present. Topics include ritual bronze vessels of the earliest kingdoms, the Chinese transformation of Buddhism and its arts, imperial patronage of painting, the literati tradition of painting and calligraphy, and propagandistic art of the Cultural Revolution. Emphasizes the cultural contexts for Chinese visual culture.

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

AHVS 373A - Units: 1.5 - Hours: 3-0

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

Note: Credit will be granted for only one of AHVS 373A, HA 373, HA 374.
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<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
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<tbody>
<tr>
<td>AHVS 381A</td>
<td>1.5</td>
<td>3-0</td>
<td>Modernism and Modern Art: The Arts of the Pacific Northwest. A survey of the arts of Alaska, British Columbia, Washington, and Oregon from the 19th century to 1945. Investigates the relationship between &quot;art&quot; and issues such as colonialism, travel and tourism, the potlatch, the prohibition of the potlatch, ethnography, immigration, moral improvement, the Great Depression and modernity. <strong>Note:</strong> Credit will be granted for only one of AHVS 381A, HA 381A.</td>
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<tr>
<td>AHVS 381B</td>
<td>1.5</td>
<td>3-0</td>
<td>Contemporary Art: The Pacific Northwest. A thematic examination of the arts of the Pacific Northwest from 1945 to the present. Issues examined may include primitivism, the Northwest School, the Totemland Studio, modern architecture, public art, feminism, postmodernism, the Vancouver school of photography, commemorations of Japanese internment, environmentalism and indigeneity. <strong>Note:</strong> Credit will be granted for only one of AHVS 381B, HA 381B.</td>
</tr>
<tr>
<td>AHVS 382A</td>
<td>1.5</td>
<td>3-0</td>
<td>Indigenous Arts: Arctic, Subarctic. An introduction to arts of the indigenous peoples of the North American Arctic and Subarctic. Examines artistic expression from the earliest known art works to the present. Explores types and styles of artworks; cultural contexts; relationships between artistic expression and environment; spirituality; and responses of artists to contact with non-native peoples. <strong>Note:</strong> Credit will be granted for only one of AHVS 382A, HA 382A.</td>
</tr>
<tr>
<td>AHVS 382B</td>
<td>1.5</td>
<td>3-0</td>
<td>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 artworks; cultural contexts; relationships between artistic expression and environment; spirituality; and responses of artists to contact with non-native peoples. <strong>Note:</strong> Credit will be granted for only one of AHVS 382B, HA 382B.</td>
</tr>
<tr>
<td>AHVS 382C</td>
<td>1.5</td>
<td>3-0</td>
<td>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 artworks; cultural contexts; relationships between artistic expression and environment; spirituality; and responses of artists to contact with non-native peoples. <strong>Note:</strong> Credit will be granted for only one of AHVS 382C, HA 382, HA 382C.</td>
</tr>
<tr>
<td>AHVS 383</td>
<td>1.5</td>
<td>3-0</td>
<td>Special Topics in North American Indigenous Arts. An in-depth exploration of a special aspect of, or area in, indigenous arts. Specific topics may vary from year to year. <strong>Notes:</strong> • 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.</td>
</tr>
<tr>
<td>AHVS 383A</td>
<td>1.5</td>
<td>3-0</td>
<td>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. <strong>Note:</strong> Credit will be granted for only one of AHVS 383A, HA 383 (if taken in the same topic).</td>
</tr>
<tr>
<td>AHVS 383B</td>
<td>1.5</td>
<td>3-0</td>
<td>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. <strong>Note:</strong> Credit will be granted for only one of AHVS 383B, HA 383 (if taken in the same topic).</td>
</tr>
<tr>
<td>AHVS 384</td>
<td>1.5</td>
<td>3-0</td>
<td>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. <strong>Note:</strong> Credit will be granted for only one of AHVS 384, HA 384.</td>
</tr>
<tr>
<td>AHVS 386</td>
<td>1.5</td>
<td>3-0</td>
<td>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. <strong>Note:</strong> Credit will be granted for only one of AHVS 386, HA 386 (if taken in the same topic).</td>
</tr>
<tr>
<td>AHVS 387A</td>
<td>1.5</td>
<td>3-0</td>
<td>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. <strong>Note:</strong> Credit will be granted for only one of AHVS 387A, HA 387A, HA 387.</td>
</tr>
<tr>
<td>AHVS 387B</td>
<td>1.5</td>
<td>3-0</td>
<td>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. <strong>Note:</strong> Credit will be granted for only one of AHVS 387B, HA 387B, HA 387.</td>
</tr>
<tr>
<td>AHVS 390</td>
<td>1.5</td>
<td>3-0</td>
<td>Directed Studies. A course of directed readings and written assignments taken under the supervision of a faculty member. <strong>Notes:</strong> • 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. <strong>Prerequisite(s):</strong> • Declared Honours or Major in Art History and Visual Studies; or • permission of the department.</td>
</tr>
<tr>
<td>AHVS 392</td>
<td>1.5 or 3.0</td>
<td>3-0</td>
<td>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. <strong>Notes:</strong> • 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.</td>
</tr>
<tr>
<td>AHVS 397</td>
<td>1.5</td>
<td>3-0</td>
<td>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. <strong>Note:</strong> Credit will be granted for only one of AHVS 397, HA 397.</td>
</tr>
</tbody>
</table>
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, Marxist and fascist theories of art as well as the State mobilization of art in times of revolution.

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.

AHVS 411  
Units: 1.5  
Hours: 3-0  
Formerly: HA 411
Seminar in World Histories of Art
An exploration of different cultural perspectives for conceptualizing artistic works and practices. Topics may include comparisons as well as examinations of specific intercultural and cross-cultural contexts.

Notes:  
• Credit will be granted for only one of AHVS 398A, HA 392 (if taken in the same topic), HA 398A.

AHVS 420  
Units: 1.5  
Hours: 3-0  
Formerly: HA 420
Seminar in Medieval Art
An intensive study of a selected aspect of medieval art.
Notes:  
• Credit will be granted for only one of AHVS 420, HA 420 (if taken in the same topic).
• May be taken more than once for credit in different topics.
• A combined undergraduate and graduate course.

Prerequisite(s):  
• One of AHVS 321, AHVS 323, AHVS 326, AHVS 328, HA 321, HA 323, HA 326, HA 328, HIST 236, HSTR 236, 1.5 units of 300- or 400-level MEDI course; and  
• minimum fourth-year standing.

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

Prerequisite(s):  
• minimum fourth-year standing.

AHVS 435  
Units: 1.5  
Hours: 3-0  
Seminar in Late Medieval and Early Renaissance Art, c. 1200-1500
An intensive study of selected aspects of Late Medieval and Renaissance Art.
Notes:  
• May be taken more than once for credit in different topics.
• A combined undergraduate and graduate seminar.

Prerequisite(s): Minimum fourth-year standing.

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

Prerequisite(s): Minimum fourth-year standing.

AHVS 449  
Units: 1.5  
Hours: 3-0  
Formerly: HA 449
Seminar in Orientalism in Art and Architecture
Intensive study of aspects of the European and North American encounter with the Islamic world in the period after 1700.
Notes:  
• Credit will be granted for only one of AHVS 449, HA 449.
• A combined undergraduate and graduate course.

Prerequisite(s):  
• One of AHVS 349, AHVS 351B, AHVS 352, AHVS 354, AHVS 357, AHVS 358, AHVS 359, HA 349, HA 352, HA 354, HA 357, HA 358, HA 359; and  
• minimum fourth-year standing.

AHVS 450  
Units: 1.5  
Hours: 3-0  
Formerly: HA 450
Seminar in Islamic Art and Civilization
An intensive study of some special aspect or area of Islamic civilization.
Notes:  
• Credit will be granted for only one of AHVS 450, HA 450 (if taken in the same topic).
• May be taken more than once for credit in different topics.
• A combined undergraduate and graduate course.

Prerequisite(s):  
• One of AHVS 251, AHVS 321, AHVS 323, AHVS 352, AHVS 354, AHVS 357, AHVS 358, AHVS 359, HA 251, HA 321, HA 323, HA 352, HA 354, HA 357, HA 358, HA 359, HIST 455, MEDI 301, MEDI 302; and  
• minimum fourth-year standing.

AHVS 451  
Units: 1.5  
Hours: 3-0  
Formerly: HA 451
Seminar in the Arts of Mughal India
An intensive study of an aspect of the art and architecture of Mughal India from the 16th-19th century. Topics will vary.
Notes:  
• Credit will be granted for only one of AHVS 451, HA 451.
• A combined undergraduate and graduate course.

Prerequisite(s):  
• One of AHVS 349, AHVS 352, AHVS 354, AHVS 357, AHVS 358, AHVS 359, HA 349, HA 352, HA 354, HA 357, HA 358, HA 359; and  
• minimum fourth-year standing.

AHVS 453  
Units: 1.5  
Hours: 3-0  
Formerly: HA 453
Seminar in the Arts of Safavi Iran
Intensive study of the art and architecture of Safavi Iran from the 16th to the 18th century. Topics will vary.
Notes:  
• Credit will be granted for only one of AHVS 453, HA 453 (if taken in the same topic).
• A combined undergraduate and graduate course.

Prerequisite(s):  
• One of AHVS 349, AHVS 351B, AHVS 352, AHVS 354, AHVS 357, AHVS 358, AHVS 359, HA 349, HA 351B, HA 352, HA 354, HA 357, HA 358, HA 359; and  
• minimum fourth-year standing.

AHVS 460  
Units: 1.5 or 3.0  
Hours: 3-0  
Formerly: HA 460
Seminar in Modern Art I (1870-1945)
Intensive study of artistic practice in the modern period. Geographic and cultural area and choice of issue may vary depending on instructor.
Notes:  
• Credit will be granted for only one of AHVS 460, HA 460 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.
• A combined undergraduate and graduate course.

Prerequisite(s):  
• minimum fourth-year standing.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
</table>
| AHVS 461    | 1.5 or 3.0 | 3-0 | Seminar in Modern Art II (1945-present)  
Intensive study of artistic practice in the modern period. Geographic and cultural area and choice of issue may vary depending on instructor.  
Notes:  
- Credit will be granted for only one of AHVS 461, HA 461.  
- A combined undergraduate and graduate course.  
Prerequisite(s):  
- One of AHVS 336, AHVS 362A, AHVS 362B, AHVS 363, AHVS 368B, AHVS 369, AHVS 384, AHVS 387A, AHVS 387B, AHVS 388, AHVS 389, AHVS 390, AHVS 392, AHVS 393, AHVS 394, AHVS 395, AHVS 396, AHVS 397, AHVS 398, and  
- minimum fourth-year standing. |
| AHVS 462    | 1.5 or 3.0 | 3-0 | Seminar in Contemporary Art  
An intensive examination of artistic practices (including but not necessarily limited to painting and sculpture) operating since World War II. Cultural area may vary depending on the instructor.  
Notes:  
- Credit will be granted for only one of AHVS 464, HA 464.  
- A combined undergraduate and graduate course.  
Prerequisite(s):  
- One of AHVS 336, AHVS 362A, AHVS 362B, AHVS 363, AHVS 368B, AHVS 369, AHVS 387A, AHVS 387B, AHVS 388, AHVS 389, AHVS 390, AHVS 392, AHVS 393, AHVS 394, AHVS 395, AHVS 396, AHVS 397, AHVS 398, and  
- minimum fourth-year standing. |
| AHVS 463    | 1.5 | 3-0 | 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.  
- A combined undergraduate and graduate course.  
Prerequisite(s):  
- One of AHVS 465, AHVS 466, AHVS 467, AHVS 468, AHVS 469, AHVS 470, AHVS 471, AHVS 472, AHVS 473, AHVS 474, AHVS 475, AHVS 476, AHVS 477, AHVS 478, AHVS 479, AHVS 480, AHVS 481, AHVS 482, AHVS 483, AHVS 484, AHVS 485, AHVS 486, AHVS 487, AHVS 488, AHVS 489, AHVS 490, AHVS 491, AHVS 492, AHVS 493, AHVS 494, AHVS 495, AHVS 496, AHVS 497, AHVS 498, AHVS 499, and  
- minimum fourth-year standing. |
| AHVS 464    | 1.5 | 3-0 | 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, AHVS 386, AHVS 387, AHVS 388, AHVS 389, AHVS 390, AHVS 391, AHVS 392, AHVS 393, AHVS 394, ANTH 322, ANTH 335, ANTH 336, ANTH 338, EDCI 372, IS 372, and  
- minimum fourth-year standing. |
| AHVS 465    | 1.5 | 3-0 | 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):  
- One of AHVS 382A, AHVS 382B, AHVS 382C, AHVS 384, AHVS 386, AHVS 387, AHVS 388, AHVS 389, ANTH 322, ANTH 335, ANTH 336, ANTH 338, EDCI 372, IS 372, and  
- minimum fourth-year standing. |
| AHVS 466    | 1.5 | 3-0 | 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.  
Notes:  
- Credit will be granted for only one of AHVS 486A, HA 486A.  
- Subject to differential fees; consult Fees for Undergraduate Programs. |
| AHVS 467    | 1.5 | 3-0 | 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 468    | 1.5 | 3-0 | 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 used to ensure safekeeping of artifacts and specimens in storage, on exhibit, and in use for research or programming purposes.

Notes:
- Credit will be granted for only one of AHVS 488D, HA 488D.
- Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488G Units: 1.5 Hours: 3-0
Formerly: HA 488G
Public Programming
Examines the central role of public programming and interpretation in museums, galleries, heritage programs/sites and related agencies, and the relationship with learning and education. Emphasizes approaches which respond to community interests and reflect curatorial priorities. Planning, delivery, management and evaluation strategies for a range of programming approaches are covered.

Notes:
- Credit will be granted for only one of AHVS 488G, HA 488G.
- Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488H Units: 0.5-1.5
Formerly: HA 488H
Topics in Museum Studies
An intensive study of some special aspect or area of museum studies. Content may vary each year.

Notes:
- Credit will be granted for only one of AHVS 488H, HA 488H (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
- Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488J Units: 1.5 Hours: 3-0
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 Planning and Design
An examination of the exhibition design process with a special focus on the design and museological elements which are considered in the creation of effective exhibitions. Topics include the roles of exhibitions; communicating with the visitor, roles of the object; conservation considerations; visitor flow, lighting, colour, storylines, project planning and management; temporary and travelling exhibits; showcase arrangements; production scheduling, installation and maintenance. Field work, study visits, and the development of a scale model are featured.

Notes:
- Credit will be granted for only one of AHVS 488K, HA 488K.
- Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488M Units: 0.5-1.5
Formerly: HA 488M
Topics in Cultural Management
An intensive study in some special aspect or area of cultural management. Content may vary each year.

Notes:
- Credit will be granted for only one of AHVS 488M, HA 488M (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
- Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488N Units: 1.5 Hours: 3-0
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 museum and heritage agencies, and stresses integrated, planned approaches to human resource development. Topics include organizational dynamics; leadership and decision-making; board/staff relations; policy development; position descriptions; recruitment; performance planning; communications; legal considerations; and ethics and professionalism.

Notes:
- Credit will be granted for only one of AHVS 488P, HA 488P.
- Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 488Q Units: 1.5 Hours: 3-0
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, grantmanship 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 - AHVS 489E

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, 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  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, administrative, 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 centres and other related organizations as effective informal learning environments. Topics include an exploration of the history and frameworks for museum learning and practice, learning theories and understanding visitors, audience engagement and development, organizations and facilities that support learning, strategies for design and marketing, research and evaluation of learning initiatives.

Notes:
• Credit will be granted for only one of AHVS 488V, AHVS 488H (if taken in the same topic), HA 488H (if taken in the same topic), 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 curatorship 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 488Z  Units: 1.5  Hours: 3-0
AHVS 489A - AHVS 489J

AHVS 489B - AHVS 489H

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), chromatography. 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 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 legislation; planning, easements, registration and funding. Field work is featured.
Notes:
• Credit will be granted for only one of AHVS 489G, HA 489G.
• Subject to differential fees; consult Fees for Undergraduate Programs.

AHVS 489H  Units: 1.5  Hours: 3-0
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.

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 491, HA 491B.
Prerequisite(s):
• Minimum third-year standing, and
• declared Honours or Major in Art History and Visual Studies or Visual Arts or admission to Diploma in Cultural Resource Management; and
• permission of the department.
Grading: INP, COM, N, F
ANTH 100 • ANTH 311

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  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, cultural diversity, 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 304  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 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 100 or 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 reconstituting 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.
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<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Title</th>
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<tbody>
<tr>
<td>ANTH 312</td>
<td>1.5</td>
<td>3-0</td>
<td>Ethnographic Research Methods</td>
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<td>ANTH 314</td>
<td>1.5</td>
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<td>Economic Anthropology</td>
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<td>A comparative analysis of the social context of production, distribution and exchange systems in local and global contexts</td>
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<td>ANTH 315</td>
<td>1.5</td>
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<td>Living Technologies</td>
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<td>Students interact with expert craftspeople 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</td>
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<tr>
<td>ANTH 317</td>
<td>1.5</td>
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<td>Quantitative Methods in Anthropological Research</td>
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<tr>
<td>ANTH 318</td>
<td>1.5</td>
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<td>Ethnographic Research Methods</td>
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<td>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</td>
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<tr>
<td>ANTH 319</td>
<td>1.5</td>
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<td>Research Methods in Archaeology and Biological Anthropology</td>
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<td>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</td>
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<tr>
<td>ANTH 323</td>
<td>1.5</td>
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<td>Anthropology of the Circumpolar Region</td>
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<td>Discussion and analysis of the peoples and cultures of Arctic and sub-Arctic Eurasia and North America</td>
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<td>ANTH 325</td>
<td>1.5</td>
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<td>Anthropology of South America</td>
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<td>Discussion and analysis of the peoples and cultures of South America</td>
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<tr>
<td>ANTH 329</td>
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<td>Anthropology of Southeast Asia</td>
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<td>Discussion and analysis of the peoples and cultures of Mainland and Island Southeast Asia</td>
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<tr>
<td>ANTH 330</td>
<td>1.5</td>
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<td>Anthropology of South Asia</td>
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<td>Discussion and analysis of the peoples and cultures of the Indian subcontinent</td>
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<tr>
<td>ANTH 332</td>
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<td>Anthropology of Europe</td>
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<td>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</td>
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<td>ANTH 336</td>
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<td>Contemporary Aboriginal Peoples of Canada</td>
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<td>Introduction to and survey of contemporary social, political, economic and cultural issues in contemporary aboriginal communities in Canada</td>
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<tr>
<td>ANTH 337</td>
<td>1.5</td>
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<td>Anthropology of Eurasia</td>
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<td>An exploration of the socialist 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</td>
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<tr>
<td>ANTH 338</td>
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<td>Anthropology of The Indigenous Peoples of British Columbia</td>
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<td>An integrated description and analysis of the cultural history and current issues surrounding aboriginal peoples in British Columbia</td>
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<td>ANTH 340</td>
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<td>Archaeology of British Columbia</td>
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<td>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</td>
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<td>ANTH 341</td>
<td>1.5</td>
<td>3-0</td>
<td>Paleolithic Archaeology</td>
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<td>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</td>
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<tr>
<td>ANTH 343</td>
<td>1.5</td>
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<td>Archaeological Field Techniques</td>
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<td>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</td>
</tr>
</tbody>
</table>

**Note:** Credit will be granted for only one of ANTH 318, ANTH 319, ANTH 323, ANTH 325, ANTH 329, ANTH 330, ANTH 332, ANTH 333, ANTH 336, ANTH 337, ANTH 338, ANTH 340, ANTH 341A, ANTH 341B, ANTH 343.
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.

Notes:
- 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: 3-0

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 interpretation.

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  Units: 1.5  Hours: 3-0

Formerly: 350A

Primatological Behaviour Ecology
Fundamentals of primate behavioural ecology, including theoretical approaches, history of the discipline within anthropology, taxonomy, zoogeography, ecology, behaviour, communication, and natural history of non-human primates.

Note: Credit will be granted for only one of ANTH 350, ANTH 350A.

Prerequisite(s): Either ANTH 250, or BIOL 215 and BIOL 345.

ANTH 351  Units: 1.5  Hours: 2-2

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, BICK 230.

ANTH 360  Units: 1.5  Hours: 1-2

Zoocultural Ecology
An introduction to the study of animal bones from archaeological sites, with a lecture component emphasizing general methodology and case studies from different regions and a laboratory component focusing on the analysis of Northwest Coast fauna.

Note: Credit will be granted for only one of ANTH 360, ANTH 390, ANTH 392 (if taken in the same topic).

Prerequisite(s): ANTH 240.

ANTH 361  Units: 1.5  Hours: 3-0

Archaeology of Medieval Europe
Introduction to the theory and practice of medieval archaeology, illustrated case studies and experimental archaeology. Explores a range of themes including status, gender, technology, religion, and daily life.

Note: Credit will be granted for only one of ANTH 361, ANTH 392 (if taken in the same topic), MEDI 360 (if taken in the same topic).

Prerequisite(s): Minimum third-year standing.

ANTH 362  Units: 1.5  Hours: 3-0

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 childbearing and the ways in which reproduction is shaped by social hierarchies of gender, wealth, ethnicity, sexuality and disability.

Note: Credit will be granted for only one of ANTH 366, ANTH 390, ANTH 393 (if taken in the same topic).

Prerequisite(s): ANTH 200.
ANTH 367 - ANTH 395

ANTH 367 - ANTH 395

COURSE LISTINGS ANTH

ANTH 367 Units: 1.5 Hours: 3-0
Heritage and Historical Archaeology Field Course
Introduces students to the archaeological methods used in recording historical cemeteries using a hands-on approach. Students will learn and practice a range of skills including: data collection and management (field and lab), mapping and recording, archival research, and project design and implementation.

Note: Credit will be granted for only one of ANTH 367, ANTH 395 (if taken in the same topic).

Prerequisite(s):
- ANTH 240; or
- permission of the department.

ANTH 371 Units: 1.5 Hours: 3-0
Anthropology of Mexico
Introduction to the diverse peoples and cultures of Mexico from the pre-Conquest period to the present day. Topics may include colonialism, religion, narcotraficking, neoliberalism, tourism, migration and social movements.

Note: Credit will be granted for only one of ANTH 371, ANTH 391 (if taken in the same topic).

Prerequisite(s):
- ANTH 200; or
- permission of the program.

ANTH 372 Units: 1.5 Hours: 3-0
Economic Underworlds and Globalization
Explores the role illicit transnational flows of goods, money, information, and people play in the contemporary global economy. Topics may include borders, drugs and drug prohibition, human smuggling, organ trafficking, conflict resources and piracy.

Note: Credit will be granted for only one of ANTH 372, ANTH 393 (if taken in the same topic).

Prerequisite(s):
- ANTH 200; or
- permission of the program.

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 381 Units: 1.5 Hours: 0-3
Cultural Anthropology Field School Methods
Training in the methods associated with fieldwork in cultural anthropology through participation in a field school project. Complements the regional topics of 382, with which it will normally be combined to form the cultural anthropology field school.

Note: Credit will be granted for only one of ANTH 381, ANTH 395 (if taken in the same topic).

Prerequisite(s):
- ANTH 200; and
- permission of the program.

ANTH 382 Units: 1.5 Hours: 3-0
Cultural Anthropology Field School Regional Topics
Immersive study of topics in cultural anthropology relevant to one or more region(s). Complements the applied cultural anthropology field methods of 381, with which it will normally be combined to form the cultural anthropology field school.

Note: Credit will be granted for only one of ANTH 382, ANTH 393 (if taken in the same topic).

Prerequisite(s):
- ANTH 200; and
- permission of the program.

ANTH 390 - ANTH 399

Selected Problems in Anthropology: Area Studies
Presentation of selected problems in anthropology.

Note: Contact hours may vary depending on the topic.

Notes:
- Credit will be granted for only one of ANTH 390, ANTH 390A, 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 394 Units: 1.5 Hours: 3-0
Formerly: 390
Selected Problems in Anthropology: Biological Anthropology
Presentation of selected problems in anthropology.

Note: 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.

Note: 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  
* Contact hours may vary depending on the topic.  
**Selected Problems in Anthropology: Linguistic Anthropology**  
Presentation of selected problems in anthropology.

**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.

**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.

**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.

**ANTH 400B**  
Units: 1.5  
Hours: 3-0  
Formerly: part of 400  
**Current Trends in Anthropological Theory**  
Survey of recent developments in anthropological theory.

**ANTH 401**  
Units: 1.5  
Hours: 3-0  
**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.

**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.

**ANTH 405**  
Units: 1.5  
Hours: 3-0  
**Advanced Economic Anthropology**  
A seminar course that examines contemporary problems in economic anthropology and ethnographic approaches to economic action. Themes include globalization, liberalization, neoliberalism, money, finance, development, capitalism, and alternative economies.

**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.

**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.

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

**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.

**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.

**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.

**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.

**ANTH 452**  
Units: 1.5  
Hours: 3-0  
**Advanced Topics in Medical Anthropology**  
Detailed examination of topics relating to the analysis of human skeletal remains. Topics may include: bioarchaeology, evolutionary anatomy and forensic osteology.

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

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

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

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

ANTH 494 Units: 1.5 Hours: 3-0
Directed Studies in Anthropology: Biological Anthropology
Individual study of specific research topics in biological anthropology with close collaboration and consent of the department and individual instructor.
Note: Credit will be granted for only one of ANTH 494, ANTH 490 (if taken in the same topic).
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).
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 Hours: 0-3
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 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 - Foundation Drawing and Painting
**Units:** 1.5  **Hours:** 0-3

An introduction to the practices and ideas associated with contemporary sculpture. 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.

### ART 104 - Foundation Sculpture and Material Methods
**Units:** 1.5  **Hours:** 0-3

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 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 - Foundation Photography and Video Art
**Units:** 1.5  **Hours:** 0-3

An introduction to concerns and methods in contemporary photography. Students will gain insight into photography as an elective for Visual Arts students.

**Note:** Priority is given to students registered in the BFA program in Visual Arts. Normally class size is limited.

### ART 106 - Foundation Core Media Technologies and Arts
**Units:** 1.5  **Hours:** 0-3

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 107 - Exploring Drawing and Colour
**Units:** 1.5  **Hours:** 0-3

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 108 - An Introduction to Documentary Photography
An introductory lecture and practical course focusing on the ideas associated with contemporary 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 109 - 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.

### ART 110 - 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 111 - 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 practices and provides a critical context in which to approach current art practices.

**Recommendation(s):** Recommended for all Visual Arts students.

### ART 112 - 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.

### ART 113 - ART 241
**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.

### ART 211 - 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.

### ART 212 - Painting
An extension of 211.

**Notes:**
- Credit will be granted for only one of ART 212, ART 210.
- Normally class size is limited.

### ART 213 - 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.

### ART 214 - 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.

### ART 215 - 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.

### ART 216 - 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.

### ART 217 - 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.

### ART 218 - 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.

### ART 219 - 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.

### ART 220 - 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.

### ART 221 - 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.

### ART 222 - 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.

### ART 223 - 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.

### ART 224 - 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.

### ART 225 - 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.

### ART 226 - 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.
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: 3-0  
Modernism and Postmodernism  
A lecture course that will survey some conditions that distinguish modernism from postmodernism and consider pertinent theoretical positions.

ART 261  Units: 1.5  Hours: 0-3  
Formerly: 160  
Digital Media Arts  
An introduction to concerns and methods in the contemporary practice of digital media in a computer lab environment including web development, audio and computer assisted design.  
Notes:  
• Credit will be granted for only one of ART 261, ART 160.  
• Normally class size is limited.  
Prerequisite(s): ART 100 or ART 106.

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 100 or ART 105.

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

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

ART 334  Units: 3.0  Hours: 0-3  
Multi-Media Printmaking  
A studio course placing emphasis on the use of a variety of media in printmaking.  
Notes:  
• May be taken more than once for credit with permission of the department to a maximum of 6 units.  
• Class size is limited.  
Prerequisite(s): 9 units of 200-level ART courses.

ART 340  Units: 3.0  Hours: 0-3  
Photography  
The development of more advanced skills in digital and/or film-based technologies as well as independent research and production as they pertain to contemporary art photography.  
Notes:  
• May be taken more than once for credit to a maximum of 9 units.  
• Concurrent registration in two sections of ART 340 is permitted, normally with two different instructors.  
Students must have their own digital or analogue SLR camera.  
Normally class size is limited.  
Prerequisite(s):  
• ART 150; and  
• ART 240 or ART 242.

ART 351  Units: 1.5 or 3.0  Hours: 0-3  
Special Studies  
The study of a specialized topic or area and its relationship to practice.  
Notes:  
• May be taken more than once for credit in different topics.  
• Normally class size is limited.  
Prerequisite(s):  
• 12 units of 100- or 200-level ART courses; or  
• permission of the department.

ART 352  Units: 1.5 or 3.0  Hours: 0-3  
Audain Studio Seminar  
This course will be led by the Audain Professor of Contemporary Art Practice of the Pacific Northwest; course content will vary in accord with the area of expertise of the Audain Professor.  
Notes:  
• May be taken more than once for credit with permission of the department to a maximum of 6 units.  
• Normally class size is limited.  
Prerequisite(s):  
• 12 units of 100- or 200-level ART courses; or  
• permission of the department.

ART 353  Units: 1.5  Hours: 3-0  
Visiting Artist Talk Series  
An introduction to contemporary art through presentations by practising artists from Canada and abroad working and exhibiting in the field today.  
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 360 - ART 493

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<th>Course</th>
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| **ART 360** | **Units: 3.0** | **Hours: 0-3** | Extended Media Practices  
This course extends the dialogue and techniques of ART 260 and 261 with a special focus on the application and effect of new technologies on contemporary practices, the hybridization of long-standing traditional and intermedia disciplines such as sound, performance, light and those conceptual practices that lie outside of traditional artmaking.  
**Notes:**  
• May be taken more than once for credit in different topics with permission of the department to a maximum of 9 units.  
• Concurrent registration in two sections of ART 360 is permitted, normally with two different instructors. Normally class size is limited.  
**Prerequisite(s):**  
• ART 150; and  
• ART 260 or ART 262. |
| **ART 370** | **Units: 3.0** | **Hours: 0-3** | Digital Video Art  
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 370 is permitted, normally with two different instructors. Normally class size is limited.  
**Prerequisite(s):**  
• ART 150; and  
• ART 270 or ART 272. |
| **ART 380** | **Units: 3.0** | **Hours: 0-3** | 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 fund-raising.  
**Note:** Normally class size is limited.  
**Prerequisite(s):** ART 150 and 9 units of 200-level ART courses. |
| **ART 390** | **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; and  
• permission of the department. |
| **ART 395** | **Units: 6.0** | **Hours: 1.5 - 4.5** | Visual Structures in the Imaginative Realm I  
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** | **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, promoting 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:** COMM, N, F. |
| **ART 406** | **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.  
**Recommendation(s):** ART 306 recommended prior to ART 406. |
| **ART 490** | **Units: 1.5 or 3.0** |  | Directed Studies  
This course is for advanced students who have a shared field of interest with a particular instructor. Students are expected to have a well-developed proposal prepared in order to apply to an instructor for supervision.  
**Notes:**  
• May be taken more than once for credit in different topics to a maximum of 3 units.  
• Students who have completed 6 units of credit in the specialized area of study (at least 3 units of which must be at the third-year level) may request permission to register in the course.  
**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 - ASTR 250

**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**  
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**  
American Sign Language  
Department of Linguistics  
Faculty of Humanities  

**ASL 100A**  
Units: 1.5  
Hours: 2-2  
American Sign Language I  
Introduction to language used by the Deaf community in North America, no prior knowledge required. Covers essentials of grammar, basic vocabulary and fundamental structures for everyday interaction; provides insight into the Deaf community and Deaf culture.

**ASL 100B**  
Units: 1.5  
Hours: 2-2  
American Sign Language II  
Continuation of ASL 100A. Emphasis on increasing vocabulary, skills applying grammatical features, facial expression and receptive and expressive signing.  
Prerequisite(s): ASL 100A.

**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 200A.

**ASR 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  

**ASTR 101**  
Units: 1.5  
Hours: 3-3  
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. Discovers 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 120**  
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 likelihood 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.

**Pre-requisite(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: 429A
Introduction to Observational Astronomy
Introduction to observational and data analysis techniques in Astronomy. Observational and practical work, directed reading.

Note: Credit will be granted for only one of ASTR 329, ASTR 429A.

Prerequisite(s): ASTR 250.

ASTR 403 Units: 1.5 Hours: 3-0
Introduction to Astrophysical Processes
Topics may include: fundamentals of radiative transfer; radiation processes (e.g., bremsstrahlung, synchrotron radiation, Compton scattering), atomic and molecular spectra; the basics of plasma physics, gas dynamics (e.g., shocks, accretion flows and winds), collisional processes (ionization, excitation); photo-ionization; line transfer effects (e.g., fluorescence, charge exchange).

Prerequisite(s):
• ASTR 200B or ASTR 250, and
• PHYS 217 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 217 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 Directed Studies
Units: 1.0-3.0
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 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 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.

Pre- or Corequisite(s): BCMB 301A.

BCMB 301B Units: 1.5 Hours: 0-6
Formerly: part of BIOC 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 301B.

Pre- or Corequisite(s): BIOC 300A or BIOC 300B.

BCMB 398 Units: 0 Hours: 0-6
Research Experience
Experimental research under the direction of department members.

Grading: COM, N, F.

BCMB 406A Units: 1.5 Hours: 0-7
Formerly: part of BIOC 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 epigenetics are included.

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

• Limited enrolment.

Pre- or Corequisite(s):
• All of BCMB 301A, BCMB 301B, BIOC 300A, BIOC 300B, MICR 302; and
• declared Honours or Major in Biochemistry or Microbiology; or
• permission of the department.
BCMB 406B Units: 1.5 Hours: 0-7
Formerly: part of BIOC 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.
Notes:
• Credit will be granted for only one of BCMB 406B, BIOC 406, MICR 406.
• Limited enrolment.
Prerequisite(s): All of BCMB 301A, BCMB 301B, BIOC 300A, BIOC 300B, MICR 302; and declared Honours or Major in Biochemistry or Microbiology; or permission of the department.

BCMB 499A Units: 0 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.
Prerequisite(s): Permission of the department.
Grading: COM, N, F.

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

BCMB 499B Units: 1.5 Hours: 1-0
Formerly: BIOC 499B or MIRC 499B, part of BIOC 499 or MIRC 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 499B, BIOC 499A, BIOC 499B, MICR 499, MICR 499A, MICR 499B.
• Open to Honours students only.
BCMB 499A and BCMB 499B are "tied" courses and must be taken in consecutive terms except with permission of the department.
Credit for BCMB 499A will be assigned only upon successful completion of both courses.
Students are required to attend departmental seminars.
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.
Note: Not open for credit to students registered in BIOC 300A or BIOC 300B, or with credit in a third-year BIOC or MICR course.

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 300.
• Not open for credit to students registered in BIOC 300A or BIOC 300B, or with credit in a third-year BIOC or MICR course.

BIOC 300A 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):
• BIOC 225 or BME 200; and
• CHEM 221; 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 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 300B, BIOC 300A.
Prerequisite(s):
• All of BIOC 300A, BIOC 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 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 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 modulation and cell migration.
Prerequisite(s): BIOC 300A and BIOC 300B.

BIOC 404 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.
**BIOL 150A**

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

**Department of Biology**

Courses offered by the Department of Biology are also found under the following course code: MRNE (Marine Science).

**BIOC 409**

Directed Studies in Biochemistry

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

**Prerequisite(s):** All of BIOC 300A, BIOC 300B, CHEM 213.

**BIOC 408 - BIOL 248**

**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 407**

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; application of proteomics methods to drug development and clinical screening; use of proteomics for determining and characterizing molecular interactions.

**Note:** Credit will be granted for only one of BIOC 409, BCHM 489 (if taken in Jan 2013 - Apr 2014).

**Prerequisite(s):** All of BIOC 300A, BIOC 300B, CHEM 213.

**BIOC 400**

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

**Principles of Ecology**

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

**Note:** Credit will be granted for only one of BIOC 407, BIOC 225, BIOC 300.

**Prerequisite(s):**
- BIOC 184 or BIOC 190A; or
- permission of the department.

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

**BIOC 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 BIOC 225, BIOC 230.

**Prerequisite(s):**
- BIOC 184 or BIOC 190A; or
- permission of the department.

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

**BIOC 230**

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

**Principles of Genetics**

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

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

**Prerequisite(s):**
- BIOC 225

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

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

**BIOC 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):**
- BIOC 184 with a minimum grade of C+; and
- one of BIOC 184, BIOC 190B, MICR 200A.
**Biol 307 - 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.

**Prerequisite(s):**
- BIOL 184 or BIOL 190B; and
- BIOL 186 or BIOL 190A.

**Biol 309 - Developmental Biology**

Cellular and molecular mechanisms underlying animal development: fertilization, gastrulation, body axis formation and patterning, formation of the eye, nervous system, neural crest, limb, germ cells and gonads. Emphasis on human developmental disorders, experimental design and hypothesis testing. Laboratory is divided into wet labs (model organisms and embryological techniques) and dry labs (analysis of primary literature).

**Prerequisite(s):** One of BIOL 225 and BIOL 299, BIOL 230, BIOL 308B.

**Biol 311 - Biological Oceanography**

An introduction to the ways in which physical, chemical and biological processes interact to regulate structure and productivity of marine ecosystems. Lectures will focus primarily on planktonic ecosystems. Participation in a one-day oceanographic cruise is required.

**Note:** Credit will be granted for only one of BIOL 311, BIOL 311B, EOS 311.

**Prerequisite(s):**
- CHEM 101 or CHEM 150; and
- CHEM 102; and
- Two of MATH 100, MATH 101, MATH 102, MATH 109, MATH 151; and
- One of PHYS 102, PHYS 102A and PHYS 102B, PHYS 110 and PHYS 111, PHYS 112, PHYS 120 and PHYS 130; and
- Minimum third-year standing.

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

**Biol 312 - Entomology**

The study of insects, focusing on phylogenetics, ecology and evolution. Topics include: medical entomology, plant-insect interactions, and social insects. The lab focuses on insect identification and collecting techniques.

**Prerequisite(s):**
- Either BIOL 184 and BIOL 186, or BIOL 190B; and
- BIOL 215.

**Biol 319 - 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 323 recommended prior to BIOL 319.

**Biol 321 - 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 - Biology of Marine Invertebrates**

Selected functional categories of invertebrate adaptations. In particular: defensive adaptations, adaptations related to feeding and nutrition, symbiotic relationships, muscular-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 forms, and anatomy as exposed by dissections.

**Prerequisite(s):** BIOL 321.

**Biol 324 - 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 - 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 - 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 - 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 333 - 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 - 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.
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.

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.

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.

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 granted toward any Biology program requirement except as an elective.
Prerequisite(s): Minimum third-year standing.

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.

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.

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 BIOL 299, BIOL 300A, BIOL 300B (BIOL 300A or BIOL 300B may be taken as corequisites).

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 BIOL 299, BIOL 300A, BIOL 300B (BIOL 300A or BIOL 300B may be taken as corequisites).

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 BIOL 299, BIOL 300A, BIOL 300B.
Recommendation(s): BIOL 360 or BIOL 361 recommended prior to BIOL 362.

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.

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.

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 360 or BIOL 365 as a pre- or corequisite.

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 - BIOL 447

COURSE LISTINGS BIOL

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

Biotchnology
The tools of molecular biology and biotechnology (including the enzymes, cloning vectors and cloning strategies used in recombinant DNA technology, as well as the origins of these tools), and the application of genetic engineering to medicine, agriculture, forestry, forensic science and related areas. Lectures will also include bioethics and the impact of biotechnology on society.

Pre- or Corequisite(s): One of BIOL 360, BIOL 361, BIOC 300B.

BIOL 404  Units: 1.5  Hours: 3-0

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

Myology
The diversity and ecology of fungi. Topics include: fungal molecular genetics, the role of fungi in ecosystem function, beneficial and pathogenic fungi in forests, and the importance of fungal biochemistry in industrial processes and human activities.

Notes:
- Credit will be granted for only one of BIOL 415C, BIOL 415, BIOL 415A, BIOL 415B, BIOL 470 (if taken in the same topic), FORB 515.
- A combined undergraduate and graduate course.

Prerequisite(s): All of BIOL 215, BIOL 225, BIOL 230.

BIOL 418  Units: 1.5  Hours: 3-3

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, immunoenocrinology and environmental endocrinology. Lectures and presentations of scientific papers.

Prerequisite(s): One of BIOL 360, BIOL 365, BIOC 299, BIOC 300A, BIOC 300B.

BIOL 435  Units: 1.5  Hours: 3-0

Molecular Evolution
Using population genetic and evolutionary principles to understand how and why genes and genomes change, and to reconstruct the evolutionary history of genes, genomes, and organisms.

Prerequisite(s): BIOL 230.

Pre- or Corequisite(s): One of BIOL 330, BIOL 355, BIOL 439, BIOL 455, BIOC 300A, BIOC 300B, CSC 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
- either two of BIOL 324, BIOL 330, ES 310, ES 344, GECG 371; and
- minimum fourth-year standing.

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.

BIOL 439  Units: 1.5  Hours: 3-0

Molecular Epidemiology
Basic principles and applications of molecular epidemiology in epidemiological research on infectious and chronic diseases as well as risk factors in human populations. An overview of terminology and definitions, the use of statistics, and ethical consideration.

Prerequisite(s):
- BIOL 225 and BIOL 230; and
- STAT 255 or STAT 260.

BIOL 446  Units: 1.5  Hours: 3-0

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, GECG 371; and
- minimum fourth-year standing.

BIOL 447  Units: 1.5  Hours: 3-0

Ion Channels and Disease
Structure and function of major voltage- and ligand-gated ion channels in neurons. Channel-related diseases and how alterations in ion channel function can contribute to nervous system disorders such as nicotine addiction and epilepsy. Mechanisms of ligand binding, gating and ion selectivity. Bioinformatic tools to analyze ion channel sequence, functional domains and structure, and electrophysiological, fluorescence and crystallography techniques to study channel structure and function. Critical discussions of the primary literature will be emphasized.

Prerequisite(s): BIOL 360 or BIOL 365.
Biol 448 - Neuroethology
Units: 1.5 Hours: 3-0-2

Examination of the neural basis of behaviour. Insights into the neuronal organisation of behaviour through examination of neural systems that have evolved in animals to solve problems encountered in their particular environments. Examples in individual species will be used to illustrate how neuronal systems integrate information to shape behaviour in a real-world context. Research papers and seminar presentations based on the primary literature will be emphasized.

Prerequisite(s): One of BIOL 345, BIOL 365, BIOL 305A, BIOL 305B.

Biol 449 - Flowering Plant Diversity
Units: 1.5 Hours: 3-3

Also: BIOL 318
Formerly: BIOL 318

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 194 or BIOL 190B, and
• BIOL 186 or BIOL 190A, and
• minimum third-year standing.

Recommendation(s): BIOL 324 recommended prior to BIOL 449.

Biol 457 - Paleoeology and Environmental Change
Units: 1.5 Hours: 3-0

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 mega-faunal extinctions; role of paleoecology in conservation.

Prerequisite(s):
• BIOL 215 or EOS 330, or
• permission of the department.

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

Biol 458 - Plant Biochemistry and Biochemical Ecology
Units: 1.5 Hours: 3-0

An introduction to plant biochemistry, plant metabolism, and the biochemical basis of plant adaptation, with emphasis on plant-specific biochemical pathways and processes, and their regulation and molecular biology. Storage carbohydrates, cell wall biosynthesis, lipid metabolism, nitrogen fixation and assimilation, and photosynthesis; biochemical ecology of secondary plant metabolites including isoprenoids, phenolics and alkaloids.

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

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

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

Biol 459 - Human Microbial Diseases
Units: 1.5 Hours: 3-0

An introduction to human infectious diseases and the biology and ecology of pathogenic bacteria and viruses. Basic principles of epidemiology of infectious diseases. Methods of control: antibiotics, antivirals and vaccines. Classification, pathogenicity, molecular diagnostic, epidemiology of various types of human infectious diseases (respiratory, digestive, etc.).

Prerequisite(s): Two of BIOL 215, BIOL 225, BIOL 230.

Biol 460 - Honours Seminar
Units: 1.0

Participation in seminars as arranged by the department and the Honours Coordinator. Required of all Honours students in their fourth-year of studies, as an addition to the normal 15 units.

Grading: COM, N, F.

Biol 461 - Fisheries Ecology and Management
Units: 1.5 Hours: 3-0-1

An examination of the basic principles of fisheries ecology and population dynamics and how these are used as the basis for stock assessment and fisheries management. Topics include: current issues in BC, Canadian and global fisheries; growth, mortality, reproduction and recruitment; stock-recruitment and age-structured fisheries models; fisheries management tactics and strategies.

Pre- or Corequisite(s):
• One of BIOL 330, BIOL 370, ES 320, ES 344, or
• permission of the department.

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

Biol 462 - Community and Ecosystem
Units: 1.5 Hours: 3-0-1

An examination of the development of, and approaches to, ecological research, including theoretical and empirical advances. Topics include: scale, biodiversity, ecosystem function, diversity stability, trophic interactions, food webs, ecological networks, macroecology, and resilience, as well as an introduction to programming and ecological modeling in R.

Prerequisite(s): BIOL 215.

Pre- or Corequisite(s): BIOL 330 or ES 344.

Biol 465 - The Molecular Basis of Cancer
Units: 1.5 Hours: 3-0

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.

Biol 466 - Frontiers in Marine Biology
Units: 1.5 Hours: 3-0

Explores new advances in topics related to ocean biology, focusing on ocean change and responses in biological systems. Topics range from novel approaches to ocean discovery both in theory and in the field, to the role of humans in ocean change and mitigation. Content is based in ocean processes and ecological interactions ranging from microbes to ecosystem and from coasts to the deep sea.

Prerequisite(s): One of BIOL 311, BIOL 319, EOS 311.

Pre- or Corequisite(s): BIOL 330 or ES 344.
BIOL 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 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 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  
**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 490E, 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:** 3.0  
**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 both courses.  
**Prerequisite(s):** BIOL 499A.

**BME**

**Biomedical Engineering**

**Faculty of Engineering**

Some Faculty of Engineering courses are only open to students in the faculty or in specific programs. Courses and applicable restrictions are listed at www.uvic.ca/engineering/courseaccess.php  
Courses offered by the Faculty of Engineering are also found under the following course codes: CENG (Computer Engineering), CIVE (Civil Engineering), CSC (Computer Science), ELEC (Electrical Engineering), ENGR (Engineering), MECH (Mechanical Engineering) and SENG (Software Engineering).

**BME 200**  
**Units:** 1.5  
**Molecular and Cellular Physiology for Engineers**  
Examines the basic structures and processes that make up cells and tissues, including protein synthesis, cellular tissues, and control of cellular processes, using principles from engineering kinetics and transport processes. Includes wet lab exercises.  
**Prerequisite(s):**  
• CHEM 101 or CHEM 150, and  
• one of PHYS 111, PHYS 112, PHYS 125, PHYS 130.

**BME 201**  
**Units:** 1.5  
**Quantitative Human Physiology**  
Introduction to human physiology at the level necessary for advanced work in biomedical engineering, including properties of organ systems such as the nervous, endocrine, muscular, cardiovascular and respiratory systems.  
**Prerequisite(s):**  
• CHEM 101 or CHEM 150, and  
• one of PHYS 111, PHYS 112, PHYS 125, PHYS 130.

**BME 320**  
**Units:** 1.5  
**Engineering Materials with BME applications**  
Materials for engineering, atomic structure, arrangement and movement; crystalline structures; polymer structures and polymer development and formulation; ceramics and ceramic development; properties of ferrous and nonferrous metals; properties of semiconductors, insulators and magnetic materials; electronic conduction in solids and simple devices. Materials in biomedical engineering design and biological effects.  
**Note:** Not open for credit to students registered in or with credit in ELEC 220 or MECH 285.  
**Prerequisite(s):** CHEM 150 and PHYS 111.
BME 335 - BME 499

BME 335  Units: 1.5  Hours: 3-1.5
Also: ELEC 335

Biosensors and Instrumentation
A study of the basic principles of biomedical electronics and measurement with emphasis on instruments and systems for biomedical data acquisition and processing. Topics will include electrocardiography (ECG), electroencephalography (EEG), medical ultrasound, magnetic resonance imaging (MRI), and x-ray computed tomography (CT).
Note: Credit will be granted for only one of BME 335, ELEC 335.
Prerequisite(s): ELEC 216 or PHYS 216.

BME 350  Units: 2.0  Hours: 4-3-1

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

BME 401A  Units: 1.5  Hours: 3-0*

Special Topics in Biomedical Engineering
Presents material in an emerging field or one not covered in regular offerings. Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.
* Lab hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of BME 401A, BME 401B (if taken in the same topic), BME 401C (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

BME 401B  Units: 1.5  Hours: 3-0*

Special Topics in Biomedical Engineering
Presents material in an emerging field or one not covered in regular offerings. Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.
* Lab hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of BME 401A, BME 401B (if taken in the same topic), BME 401C (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

BME 401C  Units: 1.5  Hours: 3-0*

Special Topics in Biomedical Engineering
Presents material in an emerging field or one not covered in regular offerings. Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.
* Lab hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of BME 401A, BME 401B (if taken in the same topic), BME 401C (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

BME 403  Units: 1.5  Hours: 3-0
Also: ELEC 435

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

BME 434  Units: 1.5  Hours: 3-0
Also: ELEC 434

Biophotonics
An overview of basic optics (including the principles of lasers), biology and photobiology will be given. Practical applications will be presented including 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  Units: 1.5  Hours: 3-0
Also: MECH 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 or Computer Engineering or Civil Engineering or Electrical Engineering or Mechanical Engineering program.

BME 498  Units: 3.0  Hours: 2-18
Honours Thesis
The honours thesis provides an opportunity for selected students to carry out a major design or research project under the supervision of a faculty member. The project will require independent study of the current technical literature, and independent research or design work. Each student will present a complete report at the end of the term, and make an oral presentation of the findings.
Note: This course may only be taken once, replacing two technical electives, one of which can be one of CENG 499, ELEC 499, 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 241 - CENG 448

#### CENG 241
**Units:** 1.5  **Hours:** 3-3

**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.

#### 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 356
**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: portability, operating system interface standard. Requirements, design, development, and deployment 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 and 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
- ENGR 001; 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 (it 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 - CENG 499

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; caching. 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 450.
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 496A  Units: 1.5  Hours: 3-0*
Selected Topics in Computer Engineering
Formerly: CENG 496
Prerequisite(s): Set by department depending upon topic.

CENG 496B  Units: 1.5  Hours: 3-0*
Selected Topics in Computer Engineering
Presented 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 496A, CENG 496B (if taken in the same topic), CENG 496C (if taken in the same topic), CENG 496D (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

CENG 498  Units: 3.0  Hours: 2-18
Honours Thesis
Selected students undertake a major engineering design and research project under the supervision of a faculty member. The work involves independent study of the current literature and independent research and design. At the end of the term, each student submits a report and discusses the findings in an oral presentation.
Note: This course may only be taken once replacing two technical electives, one of which can be CENG 499.
Prerequisite(s):
• All of Year 3 courses in Computer Engineering; and
• minimum cumulative GPA of 5.0; and
• permission of the department.
Grading: INP, standard grade

CENG 499  Units: 1.5  Hours: 1-9
Formerly: CENG 499A and 499B
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, CENG 499B, ELEC 499, ELEC 499A, ELEC 499B, SENG 499, SENG 499A, SENG 499B.
Prerequisite(s):
• One of CENG 399, BME 350, ELEC 399, MECH 350; and
• ENGR 002; and
• minimum fourth-year standing in the Computer Engineering program.
CHEM 091 - CHEM 300A

Chemistry

Department of Chemistry
Faculty of Science

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.
Grading: 0.5 fee unit.
Prerequisite(s):
• Chemistry 11; and
• Pre-Calculus 12 or Principles of Mathematics 12; or
• permission of the department.

CHEM 101 Units: 1.5 Hours: 3-3
Properties of Materials
Introduction to the modern theory of atomic structure and its relation to chemical bonding. Introduction to organic chemistry and modern materials, including polymer chemistry. Laboratory emphasizes skills typically needed in a scientific environment including observing, recording and discussing experimental data. Basic chemical techniques are introduced using a variety of different types of experiments.
Notes:
• Credit will be granted for only one of CHEM 101, CHEM 102, CHEM 124, CHEM 140, CHEM 150.
• 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.
Students without Chemistry 12 must also enroll in CHEM 091 if they wish to take CHEM 102.
Prerequisite(s):
• Chemistry 11; and
• Pre-Calculus 12 or Principles of Mathematics 12; or
• permission of the department.

CHEM 102 Units: 1.5 Hours: 3-3
Environmental and Physical Chemistry
Basic physical chemistry of the environment including thermodynamics, states of matter, chemical equilibrium, kinetics, the atmosphere, and water chemistry. Laboratory builds on the experience of CHEM 101, with practice in developing routine skills. Continued emphasis is given to reporting data accurately.
Prerequisite(s):
• CHEM 091 or Chemistry 12; and
• CHEM 101 or CHEM 150.

CHEM 150 Units: 1.5 Hours: 3-3
Engineering Chemistry
Atomic and molecular structure; periodicity, chemical bonding; gases, liquids, and solids; phase equilibria; equilibrium; thermochemistry; chemical thermodynamics; electrochemistry.
Notes:
• Credit will be granted for only one of CHEM 150, CHEM 100, CHEM 101.
• Students who have completed an advanced mathematics course equivalent to Pre-Calculus 12 or Principles of Mathematics 12 may request permission to register in the course.
Prerequisite(s):
• Chemistry 11; and
• Pre-Calculus 12 or Principles of Mathematics 12; and
• admission to BEng or BSEng program; or
• permission of the department.
Recommended course: Chemistry 12 recommended prior to CHEM 150.

CHEM 212 Units: 1.5 Hours: 3-4
Formerly: 312
Introductory Quantitative Analysis
Introduction to the basis of quantitative analytical chemistry, treatment of data and chemical equilibrium. Sampling technique, data analysis. Analytical applications of chemical separations, potentiometry, ultraviolet/visible spectroscopy, titrimetry.
Note: Credit will be granted for only one of CHEM 212, CHEM 312.
Prerequisite(s): CHEM 102.

CHEM 213 Units: 1.5 Hours: 3-4
Practical Spectroscopy
Elementary theory and applications of mass spectrometry, infrared, UV-visible, and nuclear magnetic resonance spectroscopy to inorganic and organic compounds.
Prerequisite(s): CHEM 101 or CHEM 150.

CHEM 222 Units: 1.5 Hours: 3-4
Introduction to Inorganic Chemistry
Fundamental concepts of inorganic chemistry, with emphasis on periodicity, structure, bonding and reactivity; principles will be illustrated using the chemistry of selected groups of elements.
Prerequisite(s): CHEM 102.

CHEM 231 Units: 1.5 Hours: 3-0-1
Introductory Organic Chemistry
An introduction to organic chemistry; nomenclature; functional group survey; ionic and free radical reactions; alkanes, cycloalkanes, conformational analysis; stereochemistry; nucleophilic substitution and elimination; alkenes, alkyne; electrophilic substitution; alcohols and ethers; reduction and oxidation.
Prerequisite(s): CHEM 101 or CHEM 150.

CHEM 232 Units: 1.5 Hours: 3-4
Organic Chemistry with Biological Applications
A continuation of CHEM 231, incorporating further functional group surveys and organic chemistry of biologically relevant molecules; aldehydes and ketones; dienes and aromatic compounds; electrophilic aromatic substitution; carboxylic acids and derivatives; beta-dicarbonyl compounds; introduction to organic synthesis; amines and phenols; carbohydrates and lipids.
Note: Credit will be granted for only one of CHEM 232, CHEM 235.
Prerequisite(s): CHEM 231.

CHEM 245 Units: 1.5 Hours: 3-4
Introductory Physical Chemistry
Introduction to the principles of thermodynamics. Applications to gas and solution reactions and phase transitions. The laboratory portion of the course emphasizes both numerical problem solving and physical measurement applied to chemical systems.
Prerequisite(s):
• CHEM 102; and
• one of MATH 100, MATH 102, MATH 109.

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.
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<th>Course</th>
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| CHEM 303 | 1.5 | 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; and with the concepts of energy and power.
Prerequisite(s): CHEM 231.

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| CHEM 318 | 1.5 | 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.

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| CHEM 324 | 1.5 | 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.

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| CHEM 335 | 1.5 | 3-0 | Synthetic Methods in Organic Chemistry
Prerequisite(s): CHEM 232 or CHEM 235.

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| CHEM 337 | 1.5 | 3-0 | Bio-organic Chemistry
Prerequisite(s): CHEM 232 or CHEM 235.

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| CHEM 347 | 1.5 | 3-0 | Quantum Chemistry
Introduction to quantum chemistry, molecular orbitals and bonding. The Schrödinger 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.

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| CHEM 361 | 0.75 | 0-3 | Analytical Chemistry Laboratory
This laboratory course will build on expertise acquired in CHEM 212, 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.

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| CHEM 362 | 0.75 | 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 222.

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| CHEM 363 | 0.75 | 0-3 | Organic Chemistry Laboratory
This laboratory course will emphasize organic synthesis and the relationship between spectra and structure of synthesized materials; analysis of synthesized compounds will be shown to relate structure with reactivity and stereochemistry.
Notes:
- A total of 1.5 units of credit will be granted for only one of CHEM 363, CHEM 335, CHEM 338 (if taken prior to September 2001).
- 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 232 or CHEM 235.

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| CHEM 364 | 0.75 | 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.

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| CHEM 398 | 0 | 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.
Notes:
- Credit will be granted for only one of CHEM 399, CHEM 498.
- Cannot be taken simultaneously with CHEM 499A or CHEM 499B.
Prerequisite(s): Permission of the department.

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| CHEM 400A | 1.5 | 3-0 | Applications of Chemistry
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, agrichemicals, petrochemicals, pollution, energy (generation/conversion) and materials.
Prerequisite(s): Two of CHEM 213, CHEM 222, CHEM 231, CHEM 232.

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| CHEM 411 | 1.5 | 2-0-1 | Advanced Instrumental Analysis
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 spectroscopy, NMR, EPR, etc.
Prerequisite(s): CHEM 318.

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| CHEM 421 | 1.5 | 3-0 | Advanced Inorganic Chemistry
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, fullerences, metal-metal and metal-ligand multiple bonding, biomorganic 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.
## COURSE LISTINGS CHEM

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<th>Course Code</th>
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| CHEM 423 | 1.5 | 2-0-1 | Organometallic Chemistry
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, alkynes, aldehydes and amines. Applications of organometallic complexes in organic synthesis and industrial catalysis. Prerequisite(s): CHEM 324.

| CHEM 432 | 1.5 | 3-0 | Advanced Organic Synthesis
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.

| CHEM 434 | 1.5 | 2-0-1 | Structure-Property Relationships in Organic Chemistry
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 223 or CHEM 235.

| CHEM 437 | 1.5 | 3-0 | Biological and Medicinal Chemistry
An introduction to medically important biological systems and the small molecules that perturb them. Topics 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 BIOC or BIOL course numbered 200 or higher; or
- permission of the department.

| CHEM 452 | 1.5 | 3-0 | Reaction Mechanisms and Dynamics
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, substituents, 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.

| CHEM 453 | 1.5 | 3-0 | Structure, Reactivity and Bonding
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 cyclic 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 or CHEM 235.

| CHEM 458 | 1.5 | 2-0-1 | Statistical Thermodynamics
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.

| CHEM 459 | 1.5 | 2-0-1 | Materials Science
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.

| CHEM 461 | 0.75 | 0-3 | Advanced Analytical Chemistry Laboratory
This laboratory course will build on expertise acquired in CHEM 212 and 361, with emphasis on one project in instrumental analysis. Note: 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.

| CHEM 462 | 0.75 | 0-3 | Advanced Inorganic Chemistry Laboratory
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. Note: 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.

| CHEM 463 | 0.75 | 0-3 | Advanced Organic Chemistry Laboratory
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.

| CHEM 464 | 0.75 | 0-3 | Advanced Physical Chemistry Laboratory
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.

| CHEM 467 | 0.75 | 0-3 | Special Topics in Experimental 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 1.5 units. Prerequisite(s): Permission of the department.

| CHEM 476 | 1.5 | 3-0 | 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 | 1.5 | 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 | 1.5 | 0-3 | 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 - CIVE 295

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
Continuation of a research project conducted under the direction of a faculty member.

Notes:
• Credit will be granted for only one of CHEM 499, CHEM 498B, CHEM 499A.
• Enrollment in 499A and 499B does not automatically confer Honours program status.

CHEM 499  Units: 1.5  Hours: 0-6
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 CHEM 499B, CHEM 498B, CHEM 499.

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

CIVE 295  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.

Prerequisite(s):
• CSC 110 or CSC 111; and
• MATH 110 or MATH 211.

CIVE 296  Units: 1.5  Hours: 3-1.5
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.

CIVE 285  Units: 1.5  Hours: 3-1.5
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 234.

CIVE 345 Units: 1.5 Hours: 3-1.5*-1
Fluid Mechanics

*Indicates a 3-hour laboratory taken by students on alternate weeks.

Prerequisite(s):
- MATH 200; and
- CIVE 220 or MECH 220; and
- CIVE 295 or MECH 295.

CIVE 350 Units: 1.5 Hours: 3-0-1
Structural Analysis
Analysis and design of determinant 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 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: 3-0-0
Construction and Project Management
Construction engineering; project definition and organization; planning; scheduling, control and management of resource allocation; engineering economics; cost estimation and construction economics; 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 375 Units: 1.5 Hours: 3-0-3
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 design and analysis, reduce, reuse, recycle, resource recovery and utilization, composting, fundamentals of waste degradation and disposal, geo-environmental aspects of landfill design, leachate and gas management at landfills.

*Indicates a 3-hour laboratory taken by students on alternate weeks.

Prerequisite(s): CIVE 310.

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

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

CIVE 400 Units: 2.0 Hours: 3-3-0
Cross-disciplinary Capstone Design Project
Team or individual design project. Key sustainability metrics; integration of fundamentals acquired in mathematics, science, engineering, and complementary studies. A project proposal; a progress report, an oral presentation, and a comprehensive final report are required.

Prerequisite(s):
- All of CIVE 310, CIVE 315, CIVE 340, CIVE 345, CIVE 350, CIVE 351, CIVE 352, CIVE 360, CIVE 370, CIVE 385, CSC 349A, ENGR 201, ENGR 002; and
- 6 units of 400-level CIVE courses or ENGR 004.

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

*Indicates a 3-hour laboratory taken by students on alternate weeks.

Prerequisite(s): CIVE 310.

CIVE 411 Units: 1.5 Hours: 3-0-0
Resilient Smart Cities
The resilient smart cities context and the relationship to urban sustainability; smart city tools, applications and systems; all hazards risk assessment and the evolving cyber-physical threat; operational and strategic urban resilience planning processes in general and for smart city systems.

Note: Students in other programs may request permission to register in the course.

Prerequisite(s):
- Minimum fourth-year standing in the Civil Engineering program; or
- permission of the department.
CIVE 412 - CIVE 456

CIVE 412  Units: 1.5  Hours: 3-0
Infrastructure Engineering for Indigenous Communities
Engineering techniques to accelerate the sustainable design, building, operations and maintenance of infrastructure systems in Indigenous and rural communities including housing, renewable energy, electrical grids, transportation, water supply, sewage treatment, and telecommunications. Software to optimize the complex interdependent nature of infrastructure; factors that drive infrastructure engineering within the environmental and economic context of rural communities. Life-cycle and environmental impact assessment analysis.
Note: Credit will be granted for only one of CIVE 412, CIVE 310, 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).

CIVE 420  Units: 1.5  Hours: 3-0-0
Advanced Mechanics of Solids
Deflection of beams, combined axial load and bending moment, inelastic bending, plastic analysis of structures, beam-columns, bucking (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  Units: 1.5  Hours: 3-0-0
Advanced Structural Analysis
Stiffness method; development and applications in structural analysis; application of computer programs; trusses, multispacer beams, and frames; loadings due to force, support displacement, temperature change and member prestrain; axial and flexural stability; basic plasticity; introduction to finite element method.
Prerequisite(s): CIVE 350.

CIVE 440  Units: 1.5  Hours: 3-1.5-0
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 444  Units: 1.5  Hours: 3-1.5*
Water and Sanitation for Developing Countries
Principles of public health engineering for developing countries and other low-resource contexts. Appropriate technologies related to water supply/treatment and sanitation that are commonly utilized in development and humanitarian emergency contexts. Applied water and wastewater treatment to resource limited contexts. Overview of water- and excreta-related diseases, notions and techniques of water and sanitation (and related issues), introductory notions to hygiene, and an introduction to scientific literature.
Note: Credit will be granted for only one of CIVE 444, 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).

CIVE 445  Units: 1.5  Hours: 3-0-1
Groundwater Hydrology
Prerequisite(s): CIVE 340.

CIVE 450  Units: 1.5  Hours: 3-0-1
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  Units: 1.5  Hours: 3-0-0
Sustainable Buildings: Retrofitting, Repairs, and Recycling
Specialties 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  Units: 1.5  Hours: 3-0-1.5
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 453  Units: 1.5  Hours: 3-0
Building and District Energy Simulation
Building simulation skills are developed for: climate analysis; geometric and building envelope design; daylight and solar gains, including glazing and shading; thermal comfort and building control; heating, ventilation and air-conditioning systems; air flow and natural ventilation; renewable energy and storage technologies and district-level energy systems; parametric analysis and computational design optimization; energy flows in buildings and districts, and of the integrated nature of the building design process.
Note: Credit will be granted for only one of CIVE 453, 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).

CIVE 456  Units: 1.5  Hours: 3-1.5*-
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.
* Indicates a 3-hour laboratory taken by students on alternate weeks.
Prerequisite(s):
• CIVE 220 or MECH 220; and
• CIVE 285 and CIVE 352.
CIVE 457  
**Units:** 1.5  
**Hours:** 3-1.5*-0  
**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 typical 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.

* Indicates a 3-hour laboratory taken by students on alternate weeks.

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

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

CIVE 460  
**Units:** 1.5  
**Hours:** 3-1.5-1  
**Intelligent Transportation Systems**

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

**Prerequisite(s):** CIVE 360.

CIVE 480A  
**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 480A, CIVE 480B (if taken in the same topic), CIVE 480D (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 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 480B (if taken in the same topic), CIVE 480D (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 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).
- May be taken more than once for credit in different topics with permission of the department.

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

CIVE 485  
**Units:** 1.5  
**Hours:** 3-0  
**Foundation Engineering**


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

**Prerequisite(s):**
- CIVE 220 or MECH 220, and
- CIVE 285.

CIVE 499  
**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**

**Commerce**

Peter B. Gustavson School of Business

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

**COM 100**  
**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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
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<tbody>
<tr>
<td>COM 202</td>
<td>1.5</td>
<td>3-0</td>
<td>Financial Accounting I</td>
</tr>
<tr>
<td>COM 204</td>
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<td>Introduction to Professional Practice</td>
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<td>COM 205</td>
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<td>Professional Skills Development</td>
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<tr>
<td>COM 206B</td>
<td>1.5</td>
<td>3-0</td>
<td>Business English and Communications - Level II</td>
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<td>COM 206C</td>
<td>1.5</td>
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<td>Business English and Communications - Level III</td>
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<td>COM 220</td>
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<td>Management Finance</td>
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<td>Fundamentals of Marketing</td>
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<td>COM 270</td>
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<td>Financial and Management Accounting For Specialists</td>
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<td>COM 290</td>
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<td>Introduction to Canadian Business</td>
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<td>COM 302</td>
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<td>Business Law</td>
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<td>COM 315</td>
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<td>Financial Accounting</td>
</tr>
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</table>
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
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 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
Business and Sustainability
Introduces the changing role of business as managers face many social, political, economic, and ecological forces. Examines how these forces pressure businesses to question existing traditional operating approaches. Introduces key concepts of corporate social responsibility, business and sustainability, sustainable development, and social entrepreneurship. Examines how firms respond to calls for more sustainable economic, social, and ecological operating approaches. Introduces concepts, tools and frameworks that assist businesses to effect transition to more sustainable practices.
Note: Credit will be granted for only one of COM 362, COM 305 (if taken prior to September 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/ee rights and obligations, termination of employment and post-termination obligations.
Note: Credit will be granted for only one of COM 403, MBA 450 (if taken in the same topic), MBA 558.
Pre- or Corequisite(s):
• COM 302 or COM 402; and
• minimum fourth-year standing; or
• permission of the school.
COM 405 Units: 1.5 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):
•  permission of the school.

COM 406 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 407 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 408 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 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 310 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 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):
•  Either 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):
•  Either 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 455 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 457 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 INTP. An overseas immersion in cultural orientation, cultural sensitivity, on-site company visits with intensive foreign language training.
Note: May be taken more than once with 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  Hours: 3-0
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 INTP. 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

Canadian Studies
Diploma Program in Canadian Studies
Interdisciplinary Programs

CS 001  Units: 0  Hours: 3-0
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 Program 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 Program in Canadian Studies.

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), CIV (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 nonspecialist. Topics covered include the basic structure of a digital computer system, applications of computers in the home, office and industry, and implications of computers for society. 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.

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

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.

Intended primarily for students undertaking a degree in Business or Economics; students considering a Major in Computer Science should enrol in CSC 106 or CSC 110 rather than CSC 105.
CSC 106 - Units: 1.5 - Hours: 3-1
Formerly: 212
The Practice of Computer Science
A survey of aspects of the application of Computer Science. Topics include: algorithms; complexity and decidability; programming; hardware; software engineering; selected interdisciplinary topics; ethical and societal considerations. Optional topics include: cryptography; security; databases; human computer interaction; graphics.
Notes:
- Credit will be granted for only one of CSC 106, CSC 112, CSC 212.
- Not open to third- or fourth-year students in Computer Science or Software Engineering program.

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 130 - 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 167 - Units: 1.5 - Hours: 3-1
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.

CSC 205 - Units: 1.5 - Hours: 3-1
2D Computer Graphics and Image Processing
Vectors, parametric/implicit, RGB colours, lines, circles, barycentric coordinates, rasterization, image filtering, sampling, aliasing and antialiasing, compression, UI for image processing.
Note: Not open to students with credit in CSC 305 or CSC 405.
Pre- or Corequisite(s):
- MATH 151 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
Formerly: 326
Algorithms and Data Structures II
Advanced techniques for design, analysis, and implementation of algorithms and data structures with an introduction to algorithm engineering. Algorithmic design paradigms: greedy, divide-and-conquer, dynamic programming, backtracking, branch and bound. Advanced analysis techniques, such as amortization. Advanced data structures: hashing, disjoint sets. Advanced graph algorithms: network flow, connectivity, minimum spanning trees, shortest paths. Mathematical tools: graphs and digraphs, graph properties, planar graphs, networks; discrete probability, counting techniques, recurrences.
Note: Credit will be granted for only one of CSC 226, CSC 326.
Prerequisite(s): CSC 225.

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, RSC. 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, SENG 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 230 with a minimum grade of B+; SENG 265 with a minimum grade of B+; and
- permission of the department.
COURSE LISTINGS

CSC 305
Units: 1.5
Hours: 3-1
Formerly: 405
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 110 or MATH 211; and
- either MATH 200 and MATH 201, or MATH 202, or MATH 204.

CSC 350
Units: 1.5
Hours: 3-0
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 226 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 ASCII 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, combinatorial and sequential circuits, memory organization, buses and arithmetic units, basic microprocessor design.

Note: Credit will be granted for only one of CSC 355, CSC 255.

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
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, protocols, design, protocol control, 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
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 credited 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.
### CS422 - CS460

#### CS422  
**Graph Algorithms**  
Units: 1.5  
Hours: 3-0  
Detailed study, from the algorithmic point of view, of some tractable and intractable graph problems. Some tractable problems are path problems, spanning trees, network flows, matchings, and planarity testing. Some intractable problems are clique, independent set, vertex cover, Hamiltonian cycle, and colouring problems. Various strategies for handling intractable problems are presented including intelligent backtracking, distributed and parallel computing, parameterized complexity, restrictions to graph sub-classes, randomized and approximation algorithms.  
Prerequisite(s):  
- Either CSC 226, or CSC 225 and MATH 222; and  
- minimum third-year standing.

#### CS423  
**Randomized Algorithms**  
Units: 1.5  
Hours: 3-0  
Basic techniques in design and analysis of randomized algorithms: moments and deviations, Markov chains and random walks, martingales, and algebraic techniques. Other topics include: the probabilistic method, random structures and complexity. Applications are selected from: parallel algorithm, routing networks, combinatorial optimization, data structure, approximate solutions to intractable problems, cryptography, pattern matching, and computational geometry.  
Prerequisite(s):  
- CSC 226 with a minimum grade of B+; and  
- minimum third-year standing.

#### CS425  
**Analysis of Algorithms**  
Units: 1.5  
Hours: 3-0  
Formerly: 420  
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 CS425, CS 420.  
Prerequisite(s): CSC 320.

#### CS426  
**Computational Geometry**  
Units: 1.5  
Hours: 3-0  
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.

#### CS428A  
**Combinatorial Algorithms**  
Units: 1.5  
Hours: 3-0  
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.

#### CS429  
**Cryptography**  
Units: 1.5  
Hours: 3-0  
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.

#### CS435  
**Compiler Construction**  
Units: 1.5  
Hours: 3-1  
Formerly: 448A  
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.

#### CS445  
**Numerical Linear Algebra**  
Units: 1.5  
Hours: 3-0  
Gaussian elimination and its variants; sparse positive definite linear systems, Gauss-Seidel and SOR methods, conjugate gradient; condition, stability, scaling, iterative refinement; orthogonal matrices and least squares; eigenvectors and eigenvalues; the QR algorithm; the singular value decomposition.  
Prerequisite(s): CSC 349A with a minimum grade of B or CSC 349B with a minimum grade of B.

#### CS446  
**Fault Tolerant Computing**  
Units: 1.5  
Hours: 3-0  
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.

#### CS449  
**Design and Analysis of Real-time Systems**  
Units: 1.5  
Hours: 3-3  
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC 461</td>
<td>1.5</td>
<td>3-0</td>
<td>Multimedia Systems&lt;br&gt;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.</td>
</tr>
<tr>
<td>CSC 462</td>
<td>1.5</td>
<td>3-3</td>
<td>Distributed Computing&lt;br&gt;Review of computer networking. Mechanisms including interprocess communication and remote procedure call. Distributed operating systems design problems: kernels and microkernels, process models, virtual memory, naming and protecting. Distributed file systems. Fundamental problems in distributed computing: naming, ordering of events, replication and atomicity. Case studies. 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.</td>
</tr>
<tr>
<td>CSC 463</td>
<td>1.5</td>
<td>3-0</td>
<td>Wireless and Mobile Networks&lt;br&gt;An introduction to selected issues in wireless and mobile networks. Topics include: radio basics, mobility models, location management, handoff, QoS (Quality of Service), MAC (Medium Access Control), routing, and transport protocols over different types of wireless and mobile networks. Prerequisite(s): One of CSC 361, CSC 450, CENG 460.</td>
</tr>
<tr>
<td>CSC 464</td>
<td>1.5</td>
<td>3-0</td>
<td>Concurrency&lt;br&gt;Introduction to the foundations of concurrency theory and the issues of specification and verification of concurrent systems. Topics will include models of concurrency such as Petri nets, labelled transition systems, and traces; specification of concurrent systems/programs in formalisms including process algebras, statecharts, Petri nets and temporal logics; verification techniques such as bisimulation and model checking. Case studies will be taken from coordination problems, controller design, communication protocols, hardware and user interface design. Prerequisite(s): CSC 320 and CSC 360.</td>
</tr>
<tr>
<td>CSC 466</td>
<td>1.5</td>
<td>3-0</td>
<td>Overlay and Peer-to-Peer Networking&lt;br&gt;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.</td>
</tr>
<tr>
<td>CSC 471</td>
<td>1.5</td>
<td>3-1</td>
<td>Fundamentals of Computer Rendering&lt;br&gt;Physical foundations of illumination techniques. Colour, radiometry, photometry and reflection models. The rendering equation and rendering methods including ray tracing and radiosity. Sampling and anti-aliasing theory and methods such as photon tracing, Monte Carlo techniques and texturing methods. Volume rendering and point based rendering methods, image-based rendering, real-time shading and non-photo realistic rendering techniques. Prerequisite(s): CSC 305.</td>
</tr>
<tr>
<td>CSC 472</td>
<td>1.5</td>
<td>3-1</td>
<td>Fundamentals of Computer Modelling&lt;br&gt;Theory and practice of implicit and parametric modelling B-splines including NURBS and tensor product surfaces. Subdivision schemes and multi-resolution. Application of wavelets to modelling. Solid modelling including constructive solid modelling, volume models, implicit and point based modelling. Blending, deformation, polygonization, the Blobtree and precise contact modelling. Meshing techniques such as mesh reduction. Procedural modelling methods such as L-systems, and sketch based modelling. Prerequisite(s): CSC 305.</td>
</tr>
<tr>
<td>CSC 473</td>
<td>1.5</td>
<td>3-1</td>
<td>Fundamentals of Computer Animation&lt;br&gt;Principles of traditional animation, key framing, parametric and track animation, free form deformation, inverse kinematics, dynamics, spring mass systems, particle systems, numerical integration, Lagrangian constraints, space time constraints, collisions, human animation, behavioural animation, metamorphosis, implicit animation techniques, animating liquids, gases and cloth, motion capture. Animation interfaces (such as Maya) and introducing MEL scripting. Prerequisite(s): CSC 305.</td>
</tr>
<tr>
<td>CSC 475</td>
<td>1.5</td>
<td>3-0</td>
<td>Music Retrieval Techniques&lt;br&gt;A comprehensive introduction to the emerging research area of Music Information Retrieval (MIR). Topics include techniques from signal processing, machine learning, information retrieval, human-computer interaction, and software engineering are applied in the design and development of MIR algorithms and systems. 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.</td>
</tr>
<tr>
<td>CSC 482A</td>
<td>1.5</td>
<td>3-0*</td>
<td>Formerly: 482&lt;br&gt;Topics in Algorithms&lt;br&gt;Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered. * Lab hours may vary depending on the topic. Notes: • 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). • May be taken more than once for credit in different topics with permission of the department.</td>
</tr>
<tr>
<td>CSC 482B</td>
<td>1.5</td>
<td>3-0*</td>
<td>Formerly: 482&lt;br&gt;Topics in Algorithms&lt;br&gt;Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered. * 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.</td>
</tr>
<tr>
<td>CSC 482C</td>
<td>1.5</td>
<td>3-0*</td>
<td>Formerly: 482&lt;br&gt;Topics in Algorithms&lt;br&gt;Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered. * 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 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.</td>
</tr>
<tr>
<td>CSC 482D</td>
<td>1.5</td>
<td>3-0*</td>
<td>Formerly: 482&lt;br&gt;Topics in Algorithms&lt;br&gt;Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered. * 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), CSC 482D (if taken in the same topic). • May be taken more than once for credit in different topics with permission of the department.</td>
</tr>
</tbody>
</table>
CSC 483A  Units: 1.5  Hours: 3-0*
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 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  Units: 1.5  Hours: 3-0*
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 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 483C  Units: 1.5  Hours: 3-0*
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 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 483D  Units: 1.5  Hours: 3-0*
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 483D, CSC 483B (if taken in the same topic), CSC 483A (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  Units: 1.5  Hours: 3-0*
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 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  Units: 1.5  Hours: 3-0*
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 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 484C  Units: 1.5  Hours: 3-0*
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 484B, CSC 484D (if taken in the same topic), CSC 484C (if taken in the same topic), CSC 484F (if taken in the same topic), CSC 484G (if taken in the same topic), CSC 484H (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

CSC 484D  Units: 1.5  Hours: 3-0*
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 484B, CSC 484C, CSC 484D (if taken in the same topic), CSC 484F (if taken in the same topic), CSC 484G (if taken in the same topic), CSC 484H (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

CSC 485A  Units: 1.5  Hours: 3-0*
Formerly: 485
Topics in Systems
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.
* Lab hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of CSC 485A, CSC 485B (if taken in the same topic), CSC 485C (if taken in the same topic), CSC 485D (if taken in the same topic), CSC 485E (if taken in the same topic), CSC 485F (if taken in the same topic), CSC 485G (if taken in the same topic), CSC 485H (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

CSC 485B  Units: 1.5  Hours: 3-0*
Formerly: 485
Topics in Systems
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.
* Lab hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of CSC 485A, CSC 485B (if taken in the same topic), CSC 485C (if taken in the same topic), CSC 485D (if taken in the same topic), CSC 485E (if taken in the same topic), CSC 485F (if taken in the same topic), CSC 485G (if taken in the same topic), CSC 485H (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

CSC 485C  Units: 1.5  Hours: 3-0*
Formerly: 485
Topics in Systems
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.
* Lab hours may vary depending on the topic.
Notes:
• Credit will be granted for only one of CSC 485A, CSC 485B (if taken in the same topic), CSC 485C (if taken in the same topic), CSC 485D (if taken in the same topic), CSC 485E (if taken in the same topic), CSC 485F (if taken in the same topic), CSC 485G (if taken in the same topic), CSC 485H (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.
**CSC 485D**  
Units: 1.5  
Hours: 3-0*  
Formerly: 485  
Topics in Systems  
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
* Lab hours may vary depending on the topic.  
Notes:  
- Credit will be granted for only one of CSC 485D, CSC 485 (if taken in the same topic), CSC 485A (if taken in the same topic), CSC 485B (if taken in the same topic), CSC 485C (if taken in the same topic), CSC 485E (if taken in the same topic), CSC 485F (if taken in the same topic), CSC 485G (if taken in the same topic), CSC 485H (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

**CSC 485E**  
Units: 1.5  
Hours: 3-0*  
Formerly: 485  
Topics in Systems  
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
* Lab hours may vary depending on the topic.  
Notes:  
- Credit will be granted for only one of CSC 485E, CSC 485 (if taken in the same topic), CSC 485A (if taken in the same topic), CSC 485B (if taken in the same topic), CSC 485C (if taken in the same topic), CSC 485D (if taken in the same topic), CSC 485F (if taken in the same topic), CSC 485G (if taken in the same topic), CSC 485H (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

**CSC 485F**  
Units: 1.5  
Hours: 3-0*  
Formerly: 485  
Topics in Systems  
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
* Lab hours may vary depending on the topic.  
Notes:  
- Credit will be granted for only one of CSC 485F, CSC 485 (if taken in the same topic), CSC 485A (if taken in the same topic), CSC 485B (if taken in the same topic), CSC 485C (if taken in the same topic), CSC 485D (if taken in the same topic), CSC 485E (if taken in the same topic), CSC 485G (if taken in the same topic), CSC 485H (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

**CSC 485G**  
Units: 1.5  
Hours: 3-0*  
Formerly: 485  
Topics in Systems  
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
* Lab hours may vary depending on the topic.  
Notes:  
- Credit will be granted for only one of CSC 485G, CSC 485 (if taken in the same topic), CSC 485A (if taken in the same topic), CSC 485B (if taken in the same topic), CSC 485C (if taken in the same topic), CSC 485D (if taken in the same topic), CSC 485E (if taken in the same topic), CSC 485F (if taken in the same topic), CSC 485G (if taken in the same topic), CSC 485H (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

**CSC 485H**  
Units: 1.5  
Hours: 3-0*  
Formerly: 485  
Topics in Systems  
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
* Lab hours may vary depending on the topic.  
Notes:  
- Credit will be granted for only one of CSC 485H, CSC 485 (if taken in the same topic), CSC 485A (if taken in the same topic), CSC 485B (if taken in the same topic), CSC 485C (if taken in the same topic), CSC 485D (if taken in the same topic), CSC 485E (if taken in the same topic), CSC 485F (if taken in the same topic), CSC 485G (if taken in the same topic), CSC 485H (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

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

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

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

**CSC 486D**  
Units: 1.5  
Hours: 3-0*  
Topics in Graphics  
Entrance will be restricted to third- and fourth-year students who meet the prerequisite specified for the topic to be offered.  
* Lab hours may vary depending on the topic.  
Notes:  
- Credit will be granted for only one of CSC 486D, CSC 486 (if taken in the same topic), CSC 486A (if taken in the same topic), CSC 486B (if taken in the same topic), CSC 486C (if taken in the same topic).  
- May be taken more than once for credit in different topics with permission of the department.

**CSC 489**  
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 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 Hours: 3-0
Critical Process and World View
A critical examination of Aboriginal literature, including oral story-telling methods and techniques, enabling students to apply that critical process to their own writing.

CW 156E Units: 1.5
Critical Process, Symbolism and Oral Tradition
Focuses on and encourages the use of archetypes in poetry, prose and drama. Native literature archetypes such as coyote, the Thunderbird, eagle, owl and horse will be discussed, and the nature of 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.

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

CYC Child and Youth Care
School of Child and Youth Care
Faculty of Human and Social Development

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.

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
Formerly: 252.
Introduction to Helping Skills in Child and Youth Care Practice
Focuses on teaching foundational helping and communication skills through experiential learning and video recording. Students learn the use of interpersonal and communication skills, helping strategies, and the development of therapeutic relationships that are the core elements of child and youth care practice.
Notes:
• Credit will be granted for only one of CYC 152, CYC 252.
• First of four required lab courses (CYC 152, CYC 252, CYC 370 and CYC 475).

CYC 166A Units: 1.5
Formerly: 366A.
Lifespan Development (Conception to Late Childhood)
Introduces students to concepts and models of how human behaviour is acquired, maintained and modified. Focuses on human development from conception to late childhood as a knowledge base for practice with children, youth and families.
Note: Credit will be granted for only one of CYC 166A, CYC 366, CYC 366A.

CYC 166B Units: 1.5 Hours: 3-0
Formerly: 366B.
Lifespan Development (Adolescence to Late Adulthood)
Introduces students to concepts and models of how human behaviour is acquired, maintained and modified. Focuses on human development from adolescence to late adulthood as a knowledge base for practice with children, youth and families.
Note: Credit will be granted for only one of CYC 166B, CYC 366, CYC 366B.
**Cyc 171**  
Units: 1.5  
Hours: 3-0  
Formerly: 373.  
*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 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 373.

**Cyc 205**  
Units: 3.0  
Hours: 3-0  
Formerly: 301.  
*Applying Change Theory in CYC Practice*  
An introduction for students to various orientations towards planned change. How change occurs and how helping professionals can facilitate such change is the main focus. By critically reflecting on fundamental assumptions embedded in certain theories students can learn to integrate and synthesize knowledge into their own practice.  
*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 name various strategies for supporting decolonization and culturally relevant practice.  
*Prerequisite(s):* Minimum second-year standing.

**Cyc 240**  
Units: 1.5  
Hours: 3-0  
Formerly: 340.  
*Ethical Decision-Making in Child and Youth Care Practice*  
An introduction to historical theoretical perspectives in the western philosophy of ethics, an overview of decision-making models and current professional perspectives on ethics in child and youth care/human service practice. Taught using experiential learning and critical thinking strategies designed to develop personal approaches to ethical choice making and a commitment to ethical practice and social justice. Students will develop an ethical decision-making framework for application to their current and future practice.  
*Note:* Credit will be granted for only one of CYC 240, CYC 340.  
*Prerequisite(s):* Minimum second-year standing.

**Cyc 250**  
Units: 1.5  
Hours: 3-0  
*Law, Indigenous People and the TRC Calls to Action*  
An introduction to law through an Indigenous lens and framed by the Truth and Reconciliation Commission - Calls to Action. Explores pre-colonial, historical and current legal systems and processes that shape the lives and experiences of Indigenous children, youth, families and communities. Also considers meaningful practice pieces that deepen the understanding of culturally honouring, decolonizing, strength-based practice, Indigenous people and the law.  
*Note:* Credit will be granted for only one of CYC 250, CYC 350A, SOCW 350A.  
*Prerequisite(s):* Minimum second-year standing.

**Cyc 251**  
Units: 1.5  
Hours: 3-0  
*An Introduction to Child and Youth Care for Human Services Diploma Students - Bridging Course One*  
An introduction to the field of CYC for students who are entering the BCYC program following successful completion of a human services diploma. Readings, practice scenarios, activities and assignments will encourage learners to integrate their existing knowledge and skills in the broader CYC field.  
*Note:* Credit will be granted for only one of CYC 251, CYC 100A, CYC 100B.  
*Prerequisite(s):* Permission of the department.

**Cyc 260**  
Units: 0.5, 1.0, 1.5 or 3.0  
Hours: 3-0  
*Special Topics in Child and Youth Care*  
An opportunity to examine selected current issues in child and youth care.  
*Note:* May be taken more than once for credit in different topics with permission of the school.

**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*  
*Notes:*  
- May be taken more than once for credit in different topics.  
- Pro Forma required.

**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 the student’s awareness of his or her functioning in relation to children, youth and agency workers. Attention is also given to developing beginning level case planning, intervention, and case presentation skills with both a one-to-one and a group focus. Students are required to complete 286 hours.  
*Note:* Credit will be granted for only one of CYC 310, CYC 310A.

*Prerequisite(s):*  
- All of CYC 166A, CYC 166B, CYC 210; and  
- minimum third-year standing; and  
- admission to a program in Child and Youth Care.  
*Corequisite(s):* CYC 265 and CYC 338.
### CYC 310A - CYC 390

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<th>Course</th>
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| **CYC 310A** Child and Youth Care Practicum by Prior Learning Assessment (PLA) | 4.5   | 3-0   | 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 330** Applied Practice in Indigenous Contexts | 1.5   | 3-0   | Examines systems of working in meaningful and reciprocal relationships with Indigenous communities. It explores Indigenous epistemologies - ways of knowing, doing, being. Emphasis on the development of positive and effective practice frameworks and practical strategies that support healing, wellness, resilience in Indigenous contexts are central. | Prerequisite(s): CYC 230. |
| **CYC 338** Applying Developmental Theory in Child and Youth Care Practice | 3.0   | 3-0   | Focuses on the application of contemporary child developmental theories and research, as well as cultural and social class theories, to child and youth care practice. These developmental theories will be applied using a multidimensional, culturally situated, developmental perspective to a wide variety of child and youth care situations, including a variety of biologically-based atypical developmental conditions. The interrelationships between applied child development and a variety of contexts such as family, peer group, school, community, domestic and global conditions will also be explored. | Prerequisite(s):  
- CYC 166A and CYC 166B; and  
- admission to a program in Child and Youth Care.  
Corequisite(s): CYC 210. |
| **CYC 350** Attending to Disability in Child and Youth Care Practice | 1.5   | 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 350, CYC 350B.  
Prerequisite(s): CYC 250. |
| **CYC 351** Applying Change Theory in CYC Practice with Contemporary Families | 3.0   | 3-0   | 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.  
Corequisite(s):  
- CYC 205; or  
- permission of the school. |
| **CYC 356** Child and Youth Care Practice with Families | 1.5   | 3-0   | Formerly: 266.  
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 interventioions 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** Special Topics in Child and Youth Care | 0.5, 1.0, 1.5 or 3 | 3-0 | An opportunity to examine selected current issues in child and youth care. | Note: May be taken more than once for credit in different topics with permission of the school.  
Also available for professional development. |
| **CYC 364** Attending to Disability in Child and Youth Care Practice | 1.5   | 3-0   | 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** Leadership, Advocacy and Policy for the Early Years | 1.5   | 3-0   | Formerly: 474.  
Applying and Case Planning in Child and Youth Care Practice | Focuses on the skills necessary to working professionally with individuals, groups and families: intake interviewing, needs and risk assessment, intervention planning and implementation, case management and reporting. Knowledge and skill in issues of abuse and neglect will be developed. Students will be required to apply change theory in a laboratory learning setting and produce professional documentation of their work. Feedback on skill application is provided in class and through video recordings. | Note: Credit will be granted for only one of CYC 370, CYC 474.  
Prerequisite(s):  
- Either CYC 210 and CYC 205, or CYC 351; and  
- admission to a program in Child and Youth Care. |
| **CYC 379** Interdisciplinary Perspectives on Sub-Saharan Africa | 1.5   | 3-0   | Also: HSD 470  
Practices for Young Children and Families: Historical and Contemporary Perspectives | 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** Leadership, Advocacy and Policy for the Early Years | 1.5   | 3-0   | 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** Directed Studies in Child and Youth Care | 0.5, 1.0, 1.5 or 3 | 3-0 | Formerly: 474.  
Applying Assessment and Case Planning in Child and Youth Care Practice | 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. |
Qualitative and Quantitative Analysis in Child and Youth Care

This course 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.

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.

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.

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.

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.

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.

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.

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.

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, HSD 461.

Prerequisite(s):
- CYC 462, and
- minimum third-year standing, or
- permission of the school.

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.

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.

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.

Advanced Child and Youth Care Practice with Families and Groups

This advanced course focuses on the development of skills required for child and youth care practice with families and groups. In a supervised teaching setting, students will assess the needs of role-playing individuals, families and groups, and by applying appropriate intervention strategies, assist clients to achieve needs-related, desired outcomes.

Note: Credit will be granted for only one of CYC 475, CYC 476.

Prerequisite(s):
- CYC 310 or CYC 310A, and
- all of CYC 338, CYC 350, CYC 356, CYC 364, CYC 370, and
- admission to a program in Child and Youth Care.
CYC 476 Units: 1.5 Hours: 3-0
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 in working with families.
Note: Credit will be granted for only one of CYC 476, CYC 475.
Prerequisite(s):
• CYC 265 or CYC 465; and
• one of CYC 266, CYC 356, CYC 466.

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

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

CYC 490 Units: 0.5, 1.0, 1.5 or 3.0
Directed Studies in Child and Youth Care
Notes:
• May be taken more than once for credit in different topics.
• Pro Forma required.

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

CYCB

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

CYCB 110 Units: 1.5 Hours: 1.5-11
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.

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.

Practicum III: The Child in the Curriculum
Further opportunities to learn about early childhood care and education settings. Students take increasing initiative and develop self-evaluative skills in planning and conducting activities and creating effective learning environments. Students will gain understanding of the roles and responsibilities of professional work by planning and implementing programs. The objectives also include developing awareness of practice in a variety of settings, learning appropriate care routines and developing good interpersonal skills for working with children.
Prerequisite(s): CYCB 111.

CYCB 120 Units: 1.5 Hours: 4-0
Introduction to Play (ECCE)
Program planning for young children and the concept of learning through play. Explores the relationship between play and child development, the stages of children’s play and factors that influence play. Encourages students to incorporate theories and research findings about play into a description of appropriate practice. In addition to text information, throughout the course Elders and students generate insights about play from the perspective of their own First Nation’s culture.

CYCB 121 Units: 1.5 Hours: 4-0
Foundations of Curriculum Planning (ECCE)
Builds on Introduction to Play (CYCB 120). Students are introduced to the guidelines for planning culturally and developmentally appropriate programs for young children in their communities. Students explore three common philosophies of program planning with an introduction to specific contact areas while discussing the role of the child, the educator and the parent. Throughout the course Elders and students generate insights into program planning from the perspective of their own community and culture.
Prerequisite(s): CYCB 120.

CYCB 122 Units: 1.5 Hours: 4-0
Curriculum Design and Implementation (ECCE)
Builds on Introduction to Play (CYCB 120) and Foundations of Curriculum Planning (CYCB 121). Provides students with expanded experiences in designing and implementing programs for preschool children. Specific curriculum content areas of art, music, math, science and social studies are further developed in the context of refining program planning developed in the two previous courses. Throughout the course Elders and students generate insights into planning for children from their own community and culture.
Prerequisite(s): CYCB 120 and CYCB 121.

CYCB 123 Units: 1.5 Hours: 4-0
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.

CYCB 140 Units: 1.5 Hours: 4-0
Introduction to Human Behaviour
An overview of the principles that guide the scientific study of human behaviour. The child and youth care profession rests on a large and constantly expanding base of research. Introduces students to some of that research. Students learn the terminology and theories that serve as a foundation for future coursework in child and youth care. Throughout the course Elders and students generate insights into human behaviour from the perspective of their own culture.

CYCB 141 Units: 1.5 Hours: 4-0
Child Development I
Introduces students to normative child development from conception to toddlerhood. Includes an overview of the major themes and theories in child development addressing research in the areas of physical, intellectual, and psychosocial development. As well as including insights from major researchers and theorists whose roots lie in western traditions, builds on traditional practices and theories of the First Nations community by including Elders’ teachings and experiences of the students.
Special Needs
Practicum in Supported Child Care for Children with Child Development II
A continuation of the study of child development from early childhood to late adolescence addressing perspectives on physical, intellectual, psychosocial, and moral development of children and youth. Acknowledges and builds on the knowledge of child development that students already possess, and includes activities intended to elicit from them the perspectives of their own experience. Throughout the course Elders and students generate insights into child development from the perspective of their own community and culture.
Prerequisite(s): CYCB 141.

CYCB 150 Units: 1.5 Hours: 4-0
Interpersonal Communications
Introduces students to the characteristics and dynamics of interpersonal communications. Students consider their own communication practices and develop skills in the areas of self-concept, personal learning styles, perception, verbal and nonverbal communication, active listening, understanding of relationships, and the expression of feelings. Throughout the course, Elders and students 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.

CYCB 151 Units: 1.5 Hours: 4-0
Communicating with Children and Guiding Children's Behaviour
Introduces students to methods of communicating with children that help foster positive child development. Provides an introduction to three theoretical approaches to guiding children. Students identify and practice effective methods of communicating with children within the context of various theoretical approaches. Throughout the course the perspectives of the First Nation’s community regarding communicating with children and guiding children’s behaviour are elicited from Elders and students.

CYCB 210 Units: 1.5-6.0 Hours: 4-0
Practicum with Developmental Specialization
Students will develop programs and routines that are specialized for supporting healthy development with specific age groups, such as infants and toddlers, school-age children, or adolescents. Students will study practical aspects of care such as safety and appropriate guidance. Students will learn how to build program curriculum based on developmental needs and use evaluation to amend and enhance programming. The development of resources and community contacts will also be an essential part of the practicum.

CYCB 211 Units: 1.5-6.0 Hours: 4-0
Practicum in Supported Child Care for Children with Special Needs
This practicum focuses on meeting the specific needs of a child or children in the context of culture, community and family. Students may choose options such as creating inclusive curriculum, working through the steps of developing support plans in consultation with team members, or implementing aspects of existing support plans. Students will be required to investigate and work with local resources, including professionals who provide specialized support, which are culturally appropriate and enhancing.

CYCB 220 Units: 1.5 Hours: 4-0
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.

CYCB 221 Units: 1.5 Hours: 4-0
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.

CYCB 222 Units: 1.5 Hours: 4-0
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.

CYCB 230 Units: 1.5 Hours: 4-0
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 Units: 1.5 Hours: 4-0
Administration of Child Care Facilities
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.
Note: Elective.

CYCB 240 Units: 1.5 Hours: 4-0
Introduction to Supported Child Care for Children with Special Needs
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 principle of cultural responsiveness in inclusive child care.
Note: Elective.

CYCB 250 Units: 1.5 Hours: 4-0
Introduction to Planned Change
Introduces students to the components of helping relationships and models of helping used by professional child and youth care practitioners and provides opportunities to understand planned interventions within historical First Nations contexts. Students will explore the interpersonal dimensions of child and youth care practice in relation to supporting children, youth and families. Throughout the course Elders and students will generate insights into professional helping skills from the perspectives of their First Nations culture(s).

CYCB 251 Units: 1.5 Hours: 4-0
Communication Skills for Professional Helpers
Acknowledges and builds on prior knowledge of communication skills and includes activities that elicit perspectives emerging from their own experience. Designed to provide students with opportunities to learn and practice helping skills used by professional child and youth care workers in situations requiring interventions. Throughout the course the perspectives of the Indigenous community re: communication skills for professional helpers will be elicited from Elders and students.

CYCB 260 Units: 0.5, 1.0, 1.5 or 3.0 Hours: 3-0
Special Topics in Child and Youth Care
An opportunity to examine selected current issues in child and youth care.
Note: May be taken more than once for credit in different topics with permission of the school.
Cyci 460 - Dsst 441

Child and Youth Care
International
School of Child and Youth Care
Faculty of Human and Social Development

Cyci 460 Units: 1.5 Hours: 3.0
Special Topics
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.

Note: Two special topics courses in Child and Youth care are required for completion of the Professional Specialization Certificate in International Child and Youth Care.

Cyci 484 Units: 1.5 Hours: 3.0
Historical and Contemporary Theoretical Perspectives in ECD
Commencing with activities focusing on data collection and critical analysis, the student will: 1) gather data regarding a key Early Childhood Care and Development issue in the country; 2) critically analyze those data in terms of the social, cultural, historical and philosophical forces that have impacted and shaped the issue; 3) develop an Action Plan designed to effectively address the issue, and 4) evaluate the effectiveness of the implemented Action Plan.

Cyci 485 Units: 1.5 Hours: 3.0
Child and Adolescent Development in Context
Supports learners in furthering their understandings of the holistic development of children in different contexts. Focus is on inputs to child development including biology, health, nutrition, gender, socialization, formal and informal schooling, physical environment, culture, religion, politics and economics. A bio-ecocultural model will be used as a template for understanding determinants of development in various contexts.

Cyci 486 Units: 1.5 Hours: 3.0
Professional Leadership in Early Childhood Care and Development
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.

Cyci 487 Units: 1.5 Hours: 3.0
Models, Programs and Strategies for Intervention in ECD
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.

DHUM

Digital Humanities
Faculty of Humanities

DHUM 150 Units: 1.5 Hours: 3.0
Formerly: Huma 150
Tools, Techniques, and Culture of the Digital Humanities
A survey of the tools, techniques and culture of humanities computing. Topics include: impact of computing on society and academia; strategies for online research; evaluating digital academic resources; digitizing materials and converting analog materials to digital (text, image, and sound); using communicative, word-processing, spreadsheet, database, and image-, sound-, and text-manipulation software; building websites; the Portfolio system.

Note: Credit will be granted for only one of DHUM 150, Huma 150.

DHUM 250 Units: 1.5 Hours: 1.2
Formerly: Huma 250
Digital Representation and Creation in a Humanities Context
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.

Note: Credit will be granted for only one of DHUM 250, Huma 250.

Prerequisite(s):
- DHUM 150 or Huma 150; or
- permission of the department.

DHUM 350 Units: 1.5 Hours: 1.2
Formerly: Huma 350
Key Applications: Electronic Publishing and Computer-Assisted Analysis
Examination of key applications for digital humanities work in electronic publishing and the analysis of electronic objects within traditional, and new, frameworks of humanistic inquiry. Topics include: a survey of ways of knowing and ways of expressing knowledge in the humanities; advanced text encoding (TEI-XML); the generation of textual corpora; numerical and graphical analysis with relational databases, spreadsheets, and purpose-built software; and publication tools (such as XSLT) and systems.

Note: Credit will be granted for only one of DHUM 350, Huma 350.

Prerequisite(s):
- DHUM 150 or Huma 150; or
- permission of the department.

Prerequisite(s):
- DHUM 250 or Huma 250; or
- permission of the department.

Prerequisite(s):
- DHUM 150 or Huma 150; or
- permission of the department.

DSST

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

DSST 440 Units: 1.5
Formerly: Part of 442
Introduction to Disability Studies
A broad overview of the models and theories that have traditionally guided professional approaches to working with people with disabilities. The implications of these constructions are explored in relation to the development of theory, policy and practice locally and globally. Through first person accounts, students will explore the realities of living with disability and critically examine the intersections of health, illness, and disability including strengths, capacities and contributions of people living with disability.

Note: Credit will be granted for only one of DSST 440, DSST 442.

DSST 441 Units: 1.5
Enabling Technologies
Focuses on innovations that enhance quality of life by enabling people with disabilities to participate in everyday life. Students will be encouraged to think through challenges relating to function to support innovations that enable people to be more independent.
### 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 246 Units: 1.5 Hours: 3-1

Statistical Inference
Estimation, confidence intervals and hypotheses testing. Simple regression and correlation. Multiple regression; t and F tests.

Notes:
- Credit will be granted for only one of ECON 246, ECON 340.
- Not open to students registered in or with credit in STAT 261.
- STAT 252 cannot be used to satisfy the prerequisites.

Prerequisite(s):
- ECON 245 or STAT 260, and
- one of MATH 100, MATH 102, MATH 109.

ECON 305 Units: 1.5 Hours: 3-0

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
- Academic Writing Requirement satisfied.

ECON 310A 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
- Academic Writing Requirement satisfied; or

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 special characteristics of health care goods and services, market failures in the health care sector, economic modelling of the consumption and production of health care, and current issues in the economics of health care.

Prerequisite(s): One of ECON 103, ECON 103C, ECON 180.

ECON 318 Units: 1.5 Hours: 3-0

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 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.
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<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
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<tr>
<td>ECON 321</td>
<td>1.5</td>
<td>3-0</td>
<td>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.</td>
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<tr>
<td>ECON 325</td>
<td>1.5</td>
<td>3-0</td>
<td>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.</td>
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<tr>
<td>ECON 327</td>
<td>1.5</td>
<td>3-0</td>
<td>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.</td>
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<tr>
<td>ECON 328</td>
<td>1.5</td>
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<td>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 exploitation 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.</td>
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<tr>
<td>ECON 329</td>
<td>1.5</td>
<td>3-0</td>
<td>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. Requires no prior knowledge of economics. Prerequisite(s): Minimum second-year standing.</td>
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<tr>
<td>ECON 333</td>
<td>1.5</td>
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<td>Introduction to Economic Growth. An introduction to the theory of economic growth. The stylized facts of growth. The Solow growth model. Empirical applications: the role of human capital, and the convergence debate. The economics of ideas; endogenizing technical change. Prerequisite(s): ECON 204; and ECON 246 or STAT 261.</td>
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<tr>
<td>ECON 337</td>
<td>1.5</td>
<td>3-0</td>
<td>History of Economic Thought to 1870. Economics from Mercantilism up until the Marginal Revolution. Most attention will be devoted to the “Classical” contributions of Smith, Malthus, Ricardo, J.S. Mill and Marx. Note: Credit will be granted for only one of ECON 337, ECON 307. Prerequisite(s): One of ECON 103, ECON 103C, ECON 180; and ECON 104; and one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240.</td>
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<tr>
<td>ECON 338</td>
<td>1.5</td>
<td>3-0</td>
<td>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.</td>
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<tr>
<td>ECON 339</td>
<td>1.5</td>
<td>3-0</td>
<td>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.</td>
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<tr>
<td>ECON 345</td>
<td>1.5</td>
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<td>Applied Econometrics. An intuitive development of the basic concepts and techniques in econometrics. The emphasis is on the application of econometric concepts and techniques in analyzing economic phenomena. Notes: Credit will not be granted for ECON 345 if credit has already been received for either one of ECON 365, ECON 445. Cannot be taken concurrently with ECON 365 or ECON 366. Students wishing to proceed to graduate studies in Economics are advised to include ECON 365 and ECON 366 in their undergraduate program instead of ECON 345. Prerequisite(s): One of ECON 103, ECON 103C, ECON 180; and ECON 104; and ECON 245 with a minimum grade of C+ or STAT 260 with a minimum grade of C+. and ECON 246 or STAT 261; and one of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGL 147 with a minimum grade of B+, ENGR 240; and one of MATH 100, MATH 102, MATH 109. Recommendation(s): ECON 203 and ECON 204 recommended prior to ECON 345.</td>
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<tr>
<td>ECON 350</td>
<td>1.5</td>
<td>3-1</td>
<td>Formerly 439 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.</td>
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<td>ECON 351</td>
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| ECON 351 - 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    | 1.5   | 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    | 1.5   | 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    | 1.5   | 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.
| ECON 381    | 1.5   | 3-0   |
| Also: ES 312
Environmental Economics I
An introduction to the economic analysis of environmental problems. In particular, an examination of policy interventions in cases where market activities result in socially undesirable impacts on the environment. Topics typically include: externalities; pollution control policy; climate change; public goods; time, uncertainty and the environment; and trade and the environment.
Note: Credit will be granted for only one of ECON 381, ECON 330, ES 312.
Prerequisite(s):
- One of ECON 103, ECON 103C, ECON 180.
| ECON 382    | 1.5   | 3-0   |
| 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    | 1.5   | 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    | 1.5   | 3-0   |
| Advanced Topics in Microeconomic Theory
Note: Credit will be granted for only one of ECON 400, ECON 440.
Prerequisite(s):
- One of ECON 313 and ECON 350, and
- declared Honours in Economics (BSc), or
- permission of the department.
| ECON 401    | 1.5   | 3-0   |
| Advanced Topics in Macroeconomic Theory
Prerequisite(s):
- All of ECON 204, ECON 313, ECON 330, ECON 351, and
- declared Honours in Economics (BSc), or
- permission of the department.
| ECON 403    | 1.5   | 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 food 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   | 1.5   | 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):
- One of 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.
| ECON 405B   | 1.5   | 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):
- One of ECON 203 and ECON 204; and
- One of 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    | 1.5   | 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):
- One of ECON 204 and ECON 313; and
- ECON 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, nonexistence 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
- one of 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 446  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, COM 445, MBA 524.

Prerequisite(s):
• ECON 305; and
• ECON 313 with a minimum grade of B-; and
• COM 240 or MATH 242.

Pre- or Corequisite(s): Either ECON 350, or all of MATH 101, MATH 110 or MATH 211, MATH 200.

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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.

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ECON 457  Units: 1.5  Hours: 3-1
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.

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ECON 458  Units: 1.5  Hours: 3-0
Competition Economics II
Applies modern tools from industrial organization and game theory to analyze specific industries, and reviews evidence from empirical studies of firm conduct. Discusses research methods used to conduct empirical analysis of the models of imperfect competition studied in 310A (Competition Economics I). Additional topics may include pricing strategies, market power, collusion, entry, innovation and advertising.

Note: Credit will be granted for only one of ECON 458, ECON 485 (if taken in the same topic).

Prerequisite(s):
• ECON 310A and ECON 313, and
• ECON 345 or ECON 365.

Recommendation(s): ECON 350 recommended prior to ECON 458.

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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 350 recommended prior to ECON 468.

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ECON 469  Units: 1.5  Hours: 3-0
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 371, ECON 315, ECON 471.

Prerequisite(s):
• ECON 203; and
• ECON 345 or ECON 365; and
• ECON 370; or
• permission of the department.

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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 471, ECON 315, ECON 471.

Prerequisite(s):
• ECON 203; and
• ECON 345 or ECON 365; and
• ECON 370; or
• permission of the department.

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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.

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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.

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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.

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.

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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.

Pre- or Corequisite(s): One of ECON 225, ENGL 135 with a minimum grade of B+, ENGL 146 with a minimum grade of B+, ENGR 240.
• permission of the department

Minimum third-year standing; and

subject matter directly related to economics.

an internship would provide a good opportunity for studying

and should approach a potential supervising instructor

presentations related to the student’s proposed thesis

ECON 470.

Seminar for Honours studen ts only. Includes oral

Units:

ECON 499

Third-Year Standing

Individual examination of analytical issues in economics in

relation to work or volunteer activities. Student will work

with an instructor to identify issues to be explored and

methods of assessment before the experiential learning

opportunity begins. Must include at least 200 hours of work

or volunteer activities. Assessment normally will involve a

reflective journal and final paper.

Note: Student is responsible for proposing an internship

and should approach a potential supervising instructor

with a one-page typed outline explaining how the

internship would provide a good opportunity for studying

subject matter directly related to economics.

Prerequisite(s):

• Minimum third-year standing; and

• declared Honours or Major in Economics; and

• permission of the department.

ECON 496

Units: 1.5

Directed Experiential Learning in Economics

ECON 499 - ED-D 337E

An advanced economic presentation, 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 337A

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

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

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

Evaluation of Student Achievement 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.
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<td>ED-D 401</td>
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<td>Introduction to Psychology of Classroom Learning</td>
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<td>ED-D 402</td>
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<td>ED-D 407</td>
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<td>ED-D 409</td>
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<td>Introduction to Theories of Counselling</td>
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**ED-D 400 - ED-D 418**

**ED-D 400 - 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 - Introduction to Psychology of Classroom Learning**

An introduction to the psychology of learning in the secondary school.

**ED-D 402 - 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.

**ED-D 403 - 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.

**ED-D 404 - 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, families 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.

**ED-D 405 - Psychology of Adolescence**

The physiological, psychological, social and educational aspects of adolescence.

**ED-D 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. Focused on developing the ability of pre-service teachers to critically and effectively develop their own assessment practices and resources.

**ED-D 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.

**ED-D 409 - 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 410 - 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.

**ED-D 411 - Skills for Effective Interpersonal Communication**

Basic interpersonal communication skills for active listening and empathetic communication emphasizing the development and maintenance of positive, helping relationships in professional settings. The content and skills focus on professionals working in inclusive and special education.

**ED-D 412 - 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.

**Prerequisite(s):**

- ED-D 402 and ED-D 405; and
- admission to Professional Specialization Certificate in Special Education program.
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
Formerly: EDUC 420
Learning Support: Context and Key Issues
An introductory overview of key issues in learning support. Topics will include the organization, administration and management of classrooms in which students with special educational needs are found; the referral process; teacher responsibilities for students with special educational needs in the context of regular classrooms; and the utility and limitations of various assessment techniques.
Note: Credit will be granted for only one of ED-D 420, EDUC 420.
Prerequisite(s): Registration in a program in Teacher Education.

ED-D 421 Units: 1.5 Hours: 3-0
Formerly: EDUC 421
Recognition and Assessment of Learning Needs
Topics will include administering and interpreting teacher directed/prepared assessment techniques and commercial tests; reading and writing reports; and developing various individualized educational plans.
Note: Credit will be granted for only one of ED-D 421, EDUC 421.
Prerequisite(s): ED-D 420 or EDUC 420.

ED-D 422 Units: 1.5 Hours: 3-0
Formerly: EDUC 423
Management and Adaptation of the Classroom Environment
Strategies for adapting the classroom environment to support children with a range of special needs. Topics will include ADHD/FAS, abuse and neglect, medication/ treatments; social competences and emotional adjustment; issues related to low/high-incidence classifications; collaboration between professionals/paraprofessionals.
Note: Credit will be granted for only one of ED-D 422, EDUC 423.
Prerequisite(s): ED-D 420 or EDUC 420.

ED-D 424 Units: 1.5 Hours: 3-0
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-D 494 Units: 1.5 each
Directed Studies
Research projects, directed reading, or additional coursework in a specified area.
Notes:
• Pro Forma required.
• Approval must be obtained from the Department as well as the instructor supervising the Directed Studies Course. Permission will not normally be given for more than 3 units of directed studies.
Prerequisite(s): Permission of the department.

ED-D 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 Advisor of the student's program.
Grading: INC, COM, N, F
ED-P 361 - EDCI 305A

ED-P 361 Units: 1.5
Six-Week Practicum (Elementary or Middle Years Post Degree)
Notes:
• Credit will be granted for only one of ED-P 361, ED-P 300A, ED-P 300B.
• Normally takes place in the spring term.
Pre- or Corequisite(s): ED-P 360 or EDCI 360.
Grading: INP, COM, N/X, F/X

ED-P 361 Units: 1.5
Nine-Week Practicum (Elementary Education)
Notes:
• Credit will be granted for only one of ED-P 451, ED-P 400A, ED-P 400B, ED-P 400C, ED-P 400D.
• Normally takes place in the spring term.
Prerequisite(s): ED-P 361.
Grading: INP, COM, N/X, F/X

ED-P 461 Units: 3.0
Nine-Week Elementary Practicum (Elementary or Middle Years Post Degree)
Notes:
• Credit will be granted for only one of ED-P 461, ED-P 400A, ED-P 400B, ED-P 400C, ED-P 400D.
• Normally takes place in the spring term.
Prerequisite(s): ED-P 361.
Grading: INP, COM, N/X, F/X

ED-P 499 Units: 0.5-3.0
Professional Development Professional Studies
A variable content course directed at improving specific teacher and/or administrator competencies. Normally offered off campus.
Note: Not more than 3 units of credit for any ED-P 499 courses may be approved as electives on an Education degree program.
Prerequisite(s): Permission of the faculty.
Grading: COM, N, F

ED-P 781 Units: 1.5
Six-Week Practicum (Secondary Post-Degree)
Note: 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 Units: 3.0
Nine-Week Practicum (Secondary Post-Degree)
Note: Normally takes place in the fall term.
Prerequisite(s): ED-P 781.
Grading: INP, COM, N/X, F/X

ED-P 798 Units: 3.0 or 4.5
Final Sixteen-Week Practicum (Secondary)
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/X, F/X

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: INP, 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, EDCI 303, ED-P 200, ED-P 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
Focusses 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, EDCI 303, ED-P 420, ED-P 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 - Drama Education: A Medium for Learning II

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.

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<td>EDCI 305B</td>
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### EDCI 307B - Art in the Elementary Classroom II

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, AE 103, AE 103A, AE 103B, AE 204.

**Prerequisite(s):**
- EDCI 307A
- Admission to a program in Teacher Education.

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<td>EDCI 307B</td>
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### EDCI 306A - Music in the Elementary Classroom I

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.

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<td>EDCI 306A</td>
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### EDCI 306B - Music in the Elementary Classroom II

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):**
- EDCI 306A
- Admission to a program in Teacher Education.

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<td>EDCI 306B</td>
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### EDCI 307A - Art in the Elementary or Middle Classroom I

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.

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### EDCI 308 - Studio Piano Class II

Formerly: ME 308

Studio Piano Class II

Continuation of development of piano keyboard skills: technique, harmonic analysis, sight reading, transposition, accompaniments, 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.

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### EDCI 310 - Learning to Listen to Music

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.

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### EDCI 311 - Studio Guitar Class: I

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.

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### EDCI 312 - Studio Guitar Class: II

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.

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### EDCI 330 - Elementary Field Experience Seminar II

Formerly: ED-P 350

Elementary Field Experience Seminar II

Focus is on planning and implementing the curriculum, addressing the diversity found in classrooms and schools, and acquiring strategies for orchestrating the many demands and responsibilities inherent in the role of educators.

**Note:** Credit will be granted for only one of EDCI 330, ED-P 300A, ED-P 300B, ED-P 350.

**Prerequisite(s):** ED-P 251.

**Grading:** INC, COM, N, F

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<td>EDCI 330</td>
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### EDCI 335 - Learning Design

Formerly: ED-B 359

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.

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### EDCI 336 - Technology Innovation in Education

Formerly: ED-B 360

Technology Innovation in Education

A foundation for using technology in the teaching and learning process and for the development of personal learning networks to support ongoing professional development. Students will explore how to design and develop learning experiences intended to improve learning, enrich professional practice, and provide positive models for students, colleagues, and the community.

**Note:** Credit will be granted for only one of EDCI 336, ED-B 359, ED-B 360, EDCI 406, EDUC 406.

**Grading:** INC, COM, N, F

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### EDCI 337 - Interactive & Multimedia Learning

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.

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### EDCI 338 - Social Media and Personalized Learning

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
Formerly: 347A, ED-B 341A
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.

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 342 - Units: 1.5 - Hours: 3-0
Formerly: ED-C 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 342, EDCI 343C, ED-B 344.
Corequisite(s): Professional Year Admission Requirements satisfied.

EDCI 345 - Units: 1.5 - Hours: 3.0
Formerly: 353A 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.

EDCI 404 - Units: 1.5 - Hours: 3-0
Formerly: EDUC 404
Curriculum and Instruction in Elementary or Middle School Social Studies
A study of the curriculum organization and techniques of instruction in elementary or middle school social studies. Examples are drawn from a variety of content areas: history, geography, anthropology, sociology, political science, and/or economics, with emphasis on participatory citizenship, culture and traditions in a pluralistic society.

Note: Credit will be granted for only one of EDCI 404, ED-E 746, EDUC 404.
Prerequisite(s): Admission to a program in Teacher Education.

EDCI 405 - Units: 1.5 - Hours: 3-0
Formerly: EDUC 405
Curriculum and Instruction in Elementary or Middle School Mathematics
General and specific goals of mathematics teaching and learning; examination of all components of the prescribed provincial mathematics curriculum; teaching strategies; learning activities; classroom settings; and assessment techniques.

Note: Credit will be granted for only one of EDCI 405, ED-E 743, EDUC 405.
Prerequisite(s): Admission to a program in Teacher Education.

EDCI 409 - Units: 1.5 - Hours: 3-0
Formerly: EDUC 409
Fostering and Assessing Mathematical Understanding
Further examination of recent issues and trends related to fostering and assessing the major components of mathematical literacy, mathematical thinking and numeracy.

Note: Credit will be granted for only one of EDCI 409, ED-E 743, EDUC 409.
Prerequisite(s): EDCI 405 or EDUC 405.

EDCI 410 - Units: 1.5 - Hours: 3-0
Literacy in the Digital Age
An exploration of how new digital technologies have changed reading and writing for adolescents, and how these changing practices influence language and literacy teaching and learning.

EDCI 422 - Units: 1.5
Formerly: ED-B 441
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, day care and kindergarten. Examines current topics such as integration, multiculturalism, family involvement, and program evaluation.

Note: Credit will be granted for only one of EDCI 422, ED-B 441.
EDCI 424  Units: 1.5  Hours: 3-0
Formerly: EDCI 424A, EDCI 422, EDCI 422A
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.

EDCI 428  Units: 1.5  Hours: 3-0
Formerly: EDCI 428, EDCI 422, EDCI 422B
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.

EDCI 431  Units: 1.5  Hours: 3-0
Formerly: EDCI 420
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, EDCI 432, EDCI 420.

EDCI 432  Units: 1.5  Hours: 3-0
Formerly: EDCI 423
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, EDCI 423.

EDCI 433  Units: 1.5  Hours: 3-0
Formerly: EDCI 425
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, EDCI 425.

EDCI 434  Units: 1.5  Hours: 3-0
Sociological Foundations of Education
The impact of sociological variables - such as poverty, ethnicity, culture, gender, and social diversity on classroom teaching and life in contemporary Canadian schools.
Note: Credit will be granted for only one of EDCI 434, EDCI 427.

EDCI 441  Units: 1.5  Hours: 3-0
Formerly: Part of 446
Supporting Learners Experiencing Difficulties with Literacy
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, EDCI 447, EDCI 448.
Prerequisite(s): EDCI 441; or permission of the faculty.

EDCI 442  Units: 1.5  Hours: 3-0
Formerly: Part of 446
Supporting Learners Experiencing Difficulties with Literacy II
Continues the exploration of assessment and instructional practices for elementary, middle and high school students who experience difficulties with reading and writing. A practical component involves creating and delivering a series of intervention lessons to a student who experiences challenges with literacy learning.
Note: Credit will be granted for only one of EDCI 442, EDCI 446, EDCI 447, EDCI 448.
Prerequisite(s): EDCI 441, or permission of the faculty.

EDCI 447  Units: 1.5  Hours: 3-0
Formerly: EDCI 491
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, EDCI 490, EDCI 491.
Prerequisite(s): Admission to an Education program or admission to a Diploma or major program in Applied Linguistics.

EDCI 448  Units: 1.5
Formerly: EDCI 492
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, EDCI 490, EDCI 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.

EDCI 451  Units: 1.5  Hours: 3-0
Formerly: EDCI 431
Community and Culture
Designed to provide students with an appreciation of the utility of culture as a framework for understanding teaching and learning. Students will explore the roles and impacts they have as teachers and community members in the transmission and transformation of culture. Investigates the implications and challenges of teaching in a multicultural society.
Note: Credit will be granted for only one of EDCI 451, EDCI 452, EDCI 453.

EDCI 452  Units: 1.5  Hours: 3-0
Formerly: EDCI 432
Cultural Studies in Education
Focuses on the school both as a community of learners and as a part of a larger community in a changing world. Topics of study will include different conceptions of community as they relate to education and learning, relations of power in school and community settings, gender roles, ethnicity, spirituality, traditions of conflict resolution, human rights, and the effects of global systems on local communities.
Note: Credit will be granted for only one of EDCI 452, EDCI 453, EDCI 454.

EDCI 453  Units: 1.5  Hours: 3-0
Formerly: EDCI 433
Ecology for Teachers
Labs, field trips and inquiry activities will explore the major ecosystems in British Columbia as a focus for instruction. Topics include the natural history of plants and animals, the ecology of communities and ecosystems, and human impacts emphasizing the Pacific Northwest. Intended to provide teachers with information and skills to explore the outdoor environment as a focus for instruction: to plan and organize field trips, teach nature appreciation, inquiry techniques, ecology concepts and stewardship.
Note: Credit will be granted for only one of EDCI 453, EDCI 454, EDCI 455.

EDCI 454  Units: 1.5  Hours: 3-0
Formerly: EDCI 434
Environmental Education
This multidisciplinary course is designed to familiarize the educator with a range of issues and teaching methods related to environmental education. Topics include goals for environmental and outdoor education, environmental ethics; current issues and trends; multicultural perspectives towards the land; local, national and global issues; teaching strategies for understanding and resolving environmental issues; program and unit planning. Selected field trips to locations emphasizing current environmental issues.
Note: Credit will be granted for only one of EDCI 454, EDCI 455, EDCI 456.

EDCI 455  Units: 1.5  Hours: 3-0
Formerly: EDCI 436
The Evolution of Educational Ideas: Philosophy, History and the Classroom
The impact of educational philosophy and the history of education on the culture of the schools. Topics will include the evolution and implications of educational ideas, and the changing role of the school in society.
Note: Credit will be granted for only one of EDCI 455, EDCI 456.
EDCI 456 - EDCI 494

EDCI 456  Units: 1.5
Formerly: EDUC 437
Community Development Project
Designed to provide students an opportunity to develop and implement a school-based community development project. Working in groups, with a faculty mentor, students will design projects that reflect the principles and themes of community action and positive social change. Sample projects could include environmental protection and restoration initiatives, community based violence prevention programs, home- and school-based media literacy campaigns or multicultural and cultural sensitivity programs.

Note: Credit will be granted for only one of EDCI 456, EDUC 437.

Grading: INC, COM, N, F

EDCI 457  Units: 1.5
Formerly: EDUC 438
English Language Learning
A survey of curriculum and instruction designed to develop beginning competence for teaching English as a second language. There are three main themes: language instruction techniques, evaluation of the language and educational needs of English language learners, and developing sensitivity for the prior educational and cultural experiences of English language learners.

Note: Credit will be granted for only one of EDCI 457, EDCI 447, EDUC 438, ED-B 491.

EDCI 461  Units: 1.5 Hours: 3-0
Formerly: EDUC 441
Responding to Literature Through Writing
An examination of instructional practices that facilitate engagement with literature through writing in selected genres. Focuses on strategies designed to foster divergent, sustained engagement and interpretation of literature.

Note: Credit will be granted for only one of EDCI 461, EDCI 447.

EDCI 463  Units: 1.5 Hours: 3-0
Formerly: EDUC 443
Visual Thinking
Visual artists use a variety of strategies to develop original imagery, find creative solutions to problems, and express ideas that cannot be conveyed in any other medium. Students will explore the methods artists use to create and communicate. Though they arise from art, the methods can be applied to many other areas of learning. Developmentally appropriate classroom activities and teaching methods are recommended as ways of engaging elementary students in visual thinking.

Note: Credit will be granted for only one of EDCI 463, EDUC 443.

EDCI 464  Units: 1.5 Hours: 3-0
Formerly: EDUC 444
Learning Through Drama
Explores the role of drama to enrich language/literacy education. Emphasis will be placed on children’s literature and the exploration of a variety of dramatic forms that promote increased understanding within the discipline of drama as well as serving as methodology across the curriculum.

Note: Credit will be granted for only one of EDCI 464, EDUC 444.

EDCI 466  Units: 1.5 Hours: 3-0
Formerly: EDUC 447
Scientific and Technological Literacy
Science as inquiry and technology as design have been significant influences on North American society. Examines the nature of science and technology; explores curricula, instruction and assessment that encourage students to acquire abilities and habits of mind to construct an understanding of science and technology; focuses on big ideas in science technology, and the communications to inform and persuade others to take action on science and technology issues.

Note: Credit will be granted for only one of EDCI 466, EDUC 447.

EDCI 468  Units: 1.5 Hours: 2-2
Formerly: ED-E 473
Environmental Issues Education
Designed to familiarize the educator with a range of environmental issues of both local and global proportions as a focus for program planning and curriculum development. Takes an interdisciplinary approach and includes teaching strategies for helping students clarify and resolve environmental issues. Selected field trips.

Note: Credit will be granted for only one of EDCI 468, ED-E 473.

EDCI 469  Units: 1.5 Hours: 2-2
Formerly: EDUC 448
Teaching Oral French
Theoretical and practical elements of teaching French as a second language for the general classroom teacher. Students will be introduced to recommended materials and methods of presentation and use of aids. The language of instruction will include both French and English.

Note: Credit will be granted for only one of EDCI 469, ED-B 391, EDUC 448.

EDCI 475  Units: 1.5 Hours: 3-0
Formerly: EDUC 449
Principles in Teaching French Immersion
The basic curricula and evaluation as required of the French Immersion program, and an understanding of the similarities and differences between teaching in Immersion and the English program. Emphasizes how students develop literacy and numeracy in French Immersion while mastering the skills and concepts laid out in all subject areas as required by the BC curriculum. This course is taught in French.

EDCI 476  Units: 1.5 Hours: 3-0
Organization and Instruction in French Immersion
An examination of current models for the organization and instruction of French Immersion students at the elementary and secondary level. Participants will define and articulate those critical factors that ensure lessons and units of study will enable students to learn language as well as concepts/ skills. This course is taught in French.

EDCI 477  Units: 1.5 Hours: 3-0
Designs for Learning in French Immersion
Assessment and evaluation within the context of French Immersion’s language and content methodology. Emphasis is on planning, analysis and evaluation. Canadian and International models of language learning and assessment will be examined. This course is taught in French.

Prerequisite(s): EDCI 476

EDCI 487  Units: 1.5 or 3.0 Hours: 3-0
Formerly: ED-A 487, ED-B 487, ED-E 487
Special Topics in Education
Topics of current interest or concern to groups of students.

Note: May be taken more than once for credit in different topics; however, students in an education degree program require permission of the Teacher Education Advising Office to apply the credit towards their degree program.

EDCI 490  Units: 1.5
Formerly: ED-P 490
Transformative Inquiry
Focus on dialogic learning, teacher as researcher, and other ways of knowing to identify and explore personally meaningful topics within teaching practice. Individual reflection, collaborative processes, and mentoring sessions with instructor culminate in student facilitated inquiry conversations where the intricacies and overlapping issues of transformative pedagogy are considered and assimilated.

Note: Credit will be granted for only one of EDCI 490, ED-P 490.

Prerequisite(s): Admission to a program in Teacher Education.

Grading: INC, COM, N, F

EDCI 494  Units: 1.5 each
Formerly: ED-A, ED-B, ED-E 494; ED-A, ED-B, ED-E 495
Directed Studies
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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Description</th>
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<tbody>
<tr>
<td>EDCI 494A</td>
<td>1.5</td>
<td>Art Education</td>
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<tr>
<td>EDCI 494D</td>
<td>1.5</td>
<td>Drama Education</td>
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<tr>
<td>EDCI 494G</td>
<td>1.5</td>
<td>Educational Technology</td>
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<td>EDCI 494K</td>
<td>1.5</td>
<td>Language and Literacy</td>
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<td>EDCI 494M</td>
<td>1.5</td>
<td>Music Education</td>
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<tr>
<td>EDCI 494N</td>
<td>1.5</td>
<td>Teaching of History</td>
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<td>EDCI 494O</td>
<td>1.5</td>
<td>Teaching of Geography</td>
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<td>EDCI 494P</td>
<td>1.5</td>
<td>Social Studies</td>
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<td>EDCI 494R</td>
<td>1.5</td>
<td>Mathematics Education</td>
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<td>EDCI 494X</td>
<td>1.5</td>
<td>Science Education</td>
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<td>EDCI 495</td>
<td>1.5</td>
<td>Directed Studies</td>
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<tr>
<td>EDCI 495A</td>
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<td>EDCI 495X</td>
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<td>Science Education</td>
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<td>EDCI 496</td>
<td>1.5</td>
<td>Professional Communication for Personal Success</td>
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<td>EDCI 499</td>
<td>0.5-3.0</td>
<td>Professional Development - Curriculum and Instruction</td>
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<tr>
<td>EDCI 706</td>
<td>1.5</td>
<td>Course Listings</td>
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</tbody>
</table>

**EDCI 706** | **Units:** 1.5 | **Hours:** 3-0  
Formerly: EDCI 750  
**Curriculum and Instruction in Secondary School Art**  
As the last formal stage in becoming an art teacher, this course prepares students for their practicum experience. It examines relationships between the practical and theoretical aspects of art education. Students will be introduced to various teaching methodologies appropriate for implementing the curriculum, teaching styles will be discussed and explored, and students will design lessons and develop learning activities around specific concepts.  
**Note:** Credit will be granted for only one of EDCI 706, EDCI 746.  
**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: ED-B 753
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: ED-E 761
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: ED-A 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: ED-E 769
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.
Note:
• 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: ED-E 757
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 787 - Units: 1.5 - Hours: 3-0
Cross-curricular Inquiry Strategies
Inquiry-focused, project-based learning strategies applicable across a range of subject areas, and adaptable to learners’ needs, interests, and competencies, will be presented, experienced and critically examined. Grouping structures that facilitate collaborative investigations and interactions, and multi-format presentations, will be featured.

EDCI 797 - Units: 1.5 - Hours: 3-0
Curriculum and Instruction in Secondary School Information and Communication Technology
A focus on the current curriculum, the development of pedagogical content knowledge, lessons and units, and the design and maintenance of technology-based learning environments. Topics may include security and safety in a networked world; development of design, reasoning, problem solving and algorithmic thinking skills; strategies for dealing with the diversity of abilities, understanding the role of anxiety and motivation in technology instruction, approaches to assessment and evaluation unique to the teaching of computer studies, and the teachers’ role in school technology leadership.
Prerequisite(s):
• Admission to Professional Year or Post Degree Professional program; or
• permission of the school.

EDUC
Education
Faculty of Education

EDUC 100 - Units: 1.5 - Hours: 3-0
Introduction to Education
A broad understanding of education, formal and informal, through an exploration of what education is and how it is articulated. Participants will inquire about: the nature of knowledge/ knowing; the nature of learning/ learners; the varied roles of educators (e.g. teacher, leader, researcher, mentor, community steward); and the educational challenges of work-life balance.
ELEC 216 - ELEC 350

ELEC 216  Units: 1.5  Hours: 3-1.5-1

Electrical Properties of Materials
Materials for engineering, atomic bondings, crystalline structures, properties of metals, glasses, semiconductors, insulators and magnetic materials. Electronic conduction in solids and simple devices. Materials in engineering design and environmental effects.

Prerequisite(s):
- MATH 200, and
- CHEM 101 or 150, and
- one of PHYS 111, PHYS 125, PHYS 130.

Pre-or Corequisite(s):
- ELEC 216 or PHYS 216.

ELEC 220  Units: 1.5  Hours: 3-0-1

Electrical Properties of Materials
Materials for engineering, atomic bondings, crystalline structures, properties of metals, glasses, semiconductors, insulators and magnetic materials. Electronic conduction in solids and simple devices. Materials in engineering design and environmental effects.

Prerequisite(s):
- MATH 200, and
- CHEM 101 or 150, and
- one of PHYS 111, PHYS 125, PHYS 130.

Pre-or Corequisite(s): MATH 200.

ELEC 250  Units: 1.5  Hours: 3-1.5-1

Digital Signal Processing I
Generation of discrete-time signals through the sampling process and their spectral representation. Mathematical representation and properties of digital signal processing (DSP) systems. Typical DSP systems, e.g., digital filters and applications. The z transform and its relation to the Laurent series. Evaluation of the inverse z transform using complex series and contour integrals. Application of the z transform for representation and analysis of DSP systems. The processing of continuous time signals using DSP systems. The discrete-Fourier transform and the use of fast Fourier transforms for its evaluation. Introduction to the design of DSP systems.

Prerequisite(s):
- ELEC 260.

ELEC 260  Units: 1.5  Hours: 3-0-1

Continuous-Time Signals and Systems

Prerequisite(s):
- MATH 101, and
- MATH 110 or MATH 211 (211 may be taken as a corequisite).

ELEC 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 ELEC 299, ELEC 300, CENG 299, CIVE 200, ENGR 150, MECH 200.

Pre-or Corequisite(s): MATH 200.

ELEC 300  Units: 1.5  Hours: 3-1.5

Linear Circuits II

Prerequisite(s):
- ELEC 250 and CENG 241, and
- ENGR 120 or ENGR 121.

ELEC 305  Units: 1.5  Hours: 3-0-0.5

Communication 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ELEC 360</td>
<td>1.5</td>
<td>3-1.5</td>
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<tr>
<td><strong>Control Theory and Systems I</strong></td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>Prerequisite(s):</strong> ELEC 260.</td>
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<tr>
<td>ELEC 365</td>
<td>1.5</td>
<td>3-1.5-1</td>
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<tr>
<td><strong>Applied Electronics and Electrical Machines</strong></td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>Prerequisite(s):</strong> ELEC 216 or PHYS 216; and ELEC 250.</td>
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<tr>
<td>ELEC 370</td>
<td>1.5</td>
<td>3-1.5</td>
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<tr>
<td><strong>Electromechanical Energy Conversion</strong></td>
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<td><strong>Prerequisite(s):</strong> ELEC 250.</td>
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<tr>
<td>ELEC 380</td>
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<td>3-3-0.5</td>
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<tr>
<td><strong>Electronic Circuits II</strong></td>
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<tr>
<td><strong>Prerequisite(s):</strong> ELEC 300 and ELEC 330.</td>
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<tr>
<td>ELEC 399</td>
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<td>1-6</td>
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<tr>
<td><strong>Design Project I</strong></td>
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<tr>
<td>A team-based technical project completed under the supervision of a faculty member, with a focus on Engineering design requirements and specification processes. Expected learning experience and outcome are based on the knowledge and skills acquired by the student in earlier and concurrent coursework, and Professional Engineers’ awareness and consideration with respect to the environment, ethics, equity, public and worker safety and health. Projects may have a diverse nature serving societal needs. Multi-disciplinary projects are encouraged.</td>
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<tr>
<td><strong>Prerequisite(s):</strong> One of ELEC 200, ELEC 299, CENG 299; and ENGR 001; and minimum third-year standing in the BEng program in Electrical Engineering; or permission of the department.</td>
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<tr>
<td>ELEC 403</td>
<td>1.5</td>
<td>3-1.5</td>
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<tr>
<td><strong>Engineering Design by Optimization</strong></td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>Prerequisite(s):</strong> ELEC 310 or CSC 349A.</td>
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<tr>
<td>ELEC 404</td>
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<td>3-1.5</td>
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<tr>
<td><strong>Microwaves and Fiber Optics</strong></td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>Prerequisite(s):</strong> ELEC 300 and ELEC 340.</td>
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<td>ELEC 405</td>
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<td>3-0</td>
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<tr>
<td><strong>Error Control Coding</strong></td>
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<tr>
<td>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.</td>
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<tr>
<td><strong>Prerequisite(s):</strong> Minimum fourth-year standing in the Faculty of Engineering; or permission of the department.</td>
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<td>ELEC 407</td>
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<tr>
<td><strong>Digital Signal Processing II</strong></td>
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<td><strong>Note:</strong> Credit will be granted for only one of ELEC 407, ELEC 458.</td>
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<td><strong>Prerequisite(s):</strong> ELEC 310.</td>
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<td>ELEC 410</td>
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<td>3-1.5</td>
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<tr>
<td><strong>Power Electronics</strong></td>
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<td><strong>Prerequisite(s):</strong> ELEC 370 and ELEC 380.</td>
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<td>ELEC 412</td>
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<td><strong>Electronic Devices II</strong></td>
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<td><strong>Prerequisite(s):</strong> ELEC 320.</td>
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<td>ELEC 417</td>
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<td>3-1.5</td>
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<tr>
<td><strong>Software Defined Radio</strong></td>
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<tr>
<td>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.</td>
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<td><strong>Prerequisite(s):</strong> ELEC 350.</td>
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<td>ELEC 420</td>
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<tr>
<td><strong>Nanotechnology</strong></td>
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<td><strong>Prerequisite(s):</strong> ELEC 320.</td>
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<td>ELEC 426</td>
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<tr>
<td><strong>Robotics</strong></td>
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<td><strong>Note:</strong> Credit will be granted for only one of ELEC 426, ELEC 425, ELEC 475, MECH 430.</td>
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<td><strong>Prerequisite(s):</strong> ELEC 360; and ENGR 141 or MECH 245; and PHYS 110 or PHYS 122.</td>
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<td>ELEC 434</td>
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<tr>
<td><strong>Biophotonics</strong></td>
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<td>An overview of basic optics (including the principles of lasers), biology and photochemistry 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.</td>
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<td><strong>Note:</strong> Credit will be granted for only one of ELEC 434, BME 434.</td>
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<td><strong>Also:</strong> BME 414</td>
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ELEC 435 - Units: 1.5 - Hours: 3-0
Also: 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 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 moderns and of CODECs, introduction to noise analysis, information theory and coding.
Prerequisite(s): ELEC 350.

ELEC 452 - Units: 1.5 - Hours: 3-1.5
Optical Communication Technology
Modern photonic devices, principles and applications. Topics include optical waveguides and fibers, attenuation, chromatic and polarization mode dispersion, light emitting diodes, laser diodes, laser noises and reduction techniques, photo detectors, noises, passive optical polarizers, couplers, isolators and circulators, Mach-Zehnder interferometer, fiber Bragg grating, optical filters, optical multiplexer and demultiplexer, arrayed waveguide gratings and Echelle gratings, optical amplifiers, optical microcavities and plasmonic devices. Nonlinear effects and devices.
Prerequisite(s): ELEC 320 and ELEC 340.

ELEC 453 - 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 454 - Units: 1.5 - Hours: 3-1.5
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 456 - Units: 1.5 - Hours: 3-0
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 459 - 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: 3-1.5
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 458, and
• either ELEC 310, or MECH 435 and MECH 455.

ELEC 481 - Units: 1.5 - Hours: 3-0
Analog VLSI Systems
Review of IC technologies, device models and design concepts. Design of monolithic op amps, regulators, multipliers, oscillators, PLLs, A/D and D/A converters and other non-linear and high-speed ICs. Study and design of integrated filters, switched-capacitor circuits, CCIDs and other sampled-data circuits. Design and applications of analog neural network and other analog-digital LSIs.
Prerequisite(s): ELEC 320 and ELEC 380.

ELEC 482 - Units: 1.5 - Hours: 3-0
Electrical Drive Systems
Elements of drive systems, characterization of mechanical loads, requirements of electrical drive systems, dynamic equations and modelling of electrical machines, dc drives with various dc power sources, induction motor drives, ac controller, slip-energy recovery, constant air-gap flux, synchronous motor drives, permanent magnet motors, reluctance motors.
Prerequisite(s): ELEC 365 or ELEC 370.

ELEC 483 - Units: 1.5 - Hours: 3-0
Digital Video Processing
Prerequisite(s): ELEC 310.

ELEC 484 - Units: 1.5 - Hours: 3-0
Audio Signal Processing
Introduction to digital audio effects and applications. Parametric filters, shelving filters, time-varying filters. Delay structures, delay-based audio effects. Dynamics processing, non-linear processing. Spatial effects, 3D audio, reverberation. Time segment processing, pitch shifting, time stretching. Time-frequency processing, phase vocoder.
Prerequisite(s): ELEC 310.

ELEC 485 - Units: 1.5 - Hours: 3-0
Formerly: CENG 485
Data Analysis and Pattern Recognition
Statistical data analysis and random processes, ergodicity and stationarity, feature extraction and selection, Bayesian decision procedures, parametric and non-parametric pattern classification and clustering techniques. Applications to big data, data science, and computer security problems.
Note: Credit will be granted for only one of ELEC 485, CENG 485.
Prerequisite(s): STAT 254 or STAT 260.
### ELEC 486 - ENGL 099

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<tr>
<th>Course</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
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<tbody>
<tr>
<td>**ELEC 486</td>
<td>1.5</td>
<td>3-0-1.5</td>
<td>Multiresolution Solution and Geometry Processing With C++&lt;br&gt;Multi-rate signal processing, upsampling, downsampling, sampling rate conversion, polyphase techniques, multirate filter banks, multiresolution signal representations, wavelets, digital geometry processing, polygon meshes, subdivision surfaces/wavelets, efficient multiresolution signal processing. Applications in data compression, computer graphics/animation, geometric modeling, communications, and signal processing. C++ programming language, libraries such as OpenGL and CGAL.</td>
</tr>
</tbody>
</table>
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
Formerly: part of 200
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, satire, 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 200B, 200
English Literature, 1800-1914
Surveys major works from the Romantic, Victorian and Edwardian periods. Covers important genres (lyric 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  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 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, ADMIN 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 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, ECON 225 with a minimum grade of B, ENGR 240 with a minimum grade of B, WRIT 204 with a minimum grade of B, or
• permission of the department.

ENGL 303  Units: 1.5  Hours: 3-0
Formerly: 216

Copy Editing
Introduction to the principal tasks of copy editing: non-fiction print and electronic manuscripts to ensure they are correct, consistent, coherent and concise. Topics include the copyeditor’s role, spelling, punctuation, editorial style features, usage and writing style. Practice in the skills of the professional copy editor, including using manual editing marks, copy editing manuscripts drawn from a variety of non-fiction sources and preparing an editorial style sheet.

Notes:
• Credit will be granted for only one of ENGL 303, ENGL 216 (if taken in Sep 2000 - Apr 2001).
• 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 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, ECON 225 with a minimum grade of B, ENGR 240 with a minimum grade of B, WRIT 204 with a minimum grade of B, or
• permission of the department.

ENGL 305  Units: 1.5  Hours: 3-0

Visual Rhetoric for Professional Writers
Introduction to visual rhetoric as applied to the design of documents. Covers the fundamental concepts and practices of visual design in professional communications for both digital and print media. Using MS-Word and the Adobe Creative Suite, students will experiment with text styles and document structure, HTML and CSS, typographical composition, colour and digital image editing in support of effective communication.

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 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, ECON 225 with a minimum grade of B, ENGR 240 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 306  Units: 1.5  Hours: 3-0

Technical Communication
Communicating scientific and technical information to subject matter experts, managers, technicians and non-specialists using print and digital media. Technical reports, manuals, user guides.

Notes:
• Credit will be granted for only one of ENGL 306, ENGL 406 (if taken in the same topic).
• May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English.

Prerequisite(s):
• Two of ENGL 125 with a minimum grade of B, ENGL 135 with a minimum grade of B, ENGL 145 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.

ENGL 310  Units: 3.0  Hours: 3-0
Formerly: 345

Practical Criticism
A seminar designed to extend awareness of how style and form contribute to meaning in literary works; poetic, narrative and dramatic techniques; representative theoretical approaches and their application; the interdependency of literary technique and critical interpretation. Prospective Honours students are strongly advised to take this course in their second year. Students will be allowed to select this course only if they have the approval of the Honours Adviser.

Note: Credit will be granted for only one of ENGL 310, ENGL 345.
<table>
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<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
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<tbody>
<tr>
<td>ENGL 330</td>
<td>1.5</td>
<td>3-0</td>
<td>Literature and Culture II&lt;br&gt; A variable content course with topics falling under three general rubrics: literature and other media; popular literary genres; literature and other cultural practices.\n</td>
</tr>
</tbody>
</table>
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
Prose writings (novels, autobiography, essays, short stories) of the early 19th century, 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 379, 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, with special emphasis on 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 role of history; also realism, serial fiction, the circulating library, illustration, gender and writing.
Note: Credit will be granted for only one of ENGL 380, ENGL 384.

ENGL 381 Units: 1.5 Hours: 3-0
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 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 historicography, 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 be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 392 Units: 1.5 Hours: 3-0
Studies in a Major Figure
A study of the works of a single literary figure.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Topic is announced each year.

ENGL 393 Units: 1.5 Hours: 3-0
Myth and Literature
A variable content course which studies texts that develop ideas of myth.
Notes:
• May be taken more than once for credit in different topics to a maximum of 3 units.
• May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English from September 2014.
• Topic is announced each year.

ENGL 395 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 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 from September 2014.
• Topic is announced each year.

ENGL 401 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 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, EDCI 347A.
**ENGL 406** Units: 1.5  Hours: 3-0  
**Special Studies in Professional Communication**

*Notes:*
- May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
- May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English.

*Prerequisite(s):*
- Two of ENGL 125, ENGL 135, ENGL 145, ENGL 146, ENGL 147, ENGL 181, ENGL 182, ENGL 215, ENGL 225, ECON 225, ENGR 240, WRIT 204, WRIT 215; or
  - permission of the department.

**ENGL 407** Units: 1.5  Hours: 3-0  
**Social Media and Electronic Communication**

Cultural, social and economic processes underlying digital social media and electronic communication. Social networks, collaborative writing applications, blogging, SEO writing, social sharing, Google mapping, videoconferencing, screencasting, webinars.

*Notes:*
- Credit will be granted for only one of ENGL 407, ENGL 406 (if taken in the same topic).
- May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English.

*Prerequisite(s):*
- Two of ENGL 125, ENGL 135, ENGL 145, ENGL 146, ENGL 147, ENGL 181, ENGL 182, ENGL 215, ENGL 225, ECON 225, ENGR 240, WRIT 204, WRIT 215; or
  - permission of the department.

**ENGL 408** Units: 1.5  Hours: 3-0  
**Backgrounds to English Literary Traditions**

A study of intellectual backgrounds to Medieval and Renaissance literature; the contribution of Greek and Biblical materials in the formation of literary commonplaces and critical vocabularies. Among authors and topics that may be studied are Homer, Plato, Aristotle, Biblical writers, Vergil, Patristic theology, and the impact of Renaissance Humanism on the deployment of literary commonplaces and literary critical practice.

*Note:*
Credit will be granted for only one of ENGL 410, ENGL 410A, ENGL 410B.

**ENGL 409** Units: 1.5  Hours: 3-0  
**Research for Professional Writers**

An introduction to the research skills, tasks and tools of professional writers. Practice in developing research questions and identifying and evaluating information sources; using search engines, databases, indexes and other electronic sources to gather information; developing research proposals; creating electronic research notebooks and annotated bibliographies; interpreting and reporting data.

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

*Prerequisite(s):*
- Two of ENGL 125, ENGL 135, ENGL 145, ENGL 146, ENGL 147, ENGL 181, ENGL 182, ENGL 215, ENGL 225, ECON 225, ENGR 240, WRIT 204, WRIT 215; or
  - permission of the department.

**ENGL 410** Units: 1.5  Hours: 3-0  
**Digital Video 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 406 (if taken in the same topic).
- May not be counted toward upper-level requirements in Honours, Major, General or Minor Literature Programs in English.

*Prerequisite(s):*
- Two of ENGL 125, ENGL 135, ENGL 145, ENGL 146, ENGL 147, ENGL 181, ENGL 182, ENGL 215, ENGL 225, ECON 225, ENGR 240, WRIT 204, WRIT 215; or
  - permission of the department.

**ENGL 411** Units: 1.5  Hours: 3-0  
**Narrative Film to 1945**

A study of major accomplishments in international narrative film, concentrating primarily on films to 1945. Considers film as both a narrative form and a means of reflecting social concerns.

*Note:*
Credit will be granted for only one of ENGL 414A, ENGL 414.

**ENGL 412** Units: 1.5  Hours: 3-0  
**Digital Audio Production for Professional Writers**

A study of major accomplishments in American film concentrating primarily on films since 1945. Considers film as both a narrative form and a means of reflecting social concerns.

*Note:*
Credit will be granted for only one of ENGL 414B, ENGL 414.

**ENGL 413** 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:*
- May be taken more than once for credit in different topics to a maximum of 3 units.
- Topic is announced each year.

**ENGL 414** Units: 1.5  Hours: 3-0  
**American Film Since 1945**

A study of major accomplishments in American film concentrating primarily on films since 1945. Considers film as both a narrative form and a means of reflecting social concerns.

*Note:*
Credit will be granted for only one of ENGL 414A, ENGL 414.

**ENGL 415** Units: 1.5  Hours: 3-0  
**Print Media Genres and Techniques for Professional Communication**

Introduction to print-based genres associated with professional writing, including media kits, news releases, bio, speeches, op-ed writing and organizational newsletters.

*Notes:*
- May be taken more than once for credit in different topics to a maximum of 3 units.
- Topic is announced each year.

**ENGL 416** Units: 1.5  Hours: 3-0  
**Digital Video Production for Professional Writers**

Video delivered via the Web (screencasts, blogs, instructional and promotional content). Techniques for creating video, including pre- and post-production (writing, shooting, editing, encoding and streaming).

*Notes:*
- Credit will be granted for only one of ENGL 417B, ENGL 406 (if taken in the same topic).
- 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 417** Units: 1.5  Hours: 3-0  
**Print Media Genres and Techniques for Professional Communication**

A variable content course which examines comparable approaches to a maximum of 3 units.

**ENGL 418** Units: 1.5  Hours: 3-0  
**Narrative Film since 1945**

A study of major accomplishments in international narrative film, concentrating primarily on films since 1945 and including post-colonial works. Considers the rhetorical, artistic and political dimensions of film using the tools of textual analysis.

**ENGL 419** Units: 1.5  Hours: 3-0  
**Narrative Film to 1945**

A study of major accomplishments in international narrative film, concentrating primarily on films to 1945. Considers the rhetorical, artistic and political dimensions of film using the tools of textual analysis.

**ENGL 420** Units: 1.5  Hours: 3-0  
**Digital Audio Production for Professional Writers**

A study of major accomplishments in international narrative film, concentrating primarily on films to 1945 and including post-colonial works. Considers the rhetorical, artistic and political dimensions of film using the tools of textual analysis.

**ENGL 421** Units: 1.5  Hours: 3-0  
**Studies in North American Literature**

Specific themes, genres or authors in North American literature.

*Notes:*
- Credit will be granted for only one of ENGL 421, ENGL 380 (if taken prior to September 1995).
- May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

**ENGL 422** Units: 1.5  Hours: 3-0  
**Studies in North American Literature**

A variable content course which examines comparable approaches to a maximum of 3 units.

*Topic is announced each year.

**ENGL 423** Units: 1.5  Hours: 3-0  
**Print Media Genres and Techniques for Professional Communication**

A study of major accomplishments in international narrative film, concentrating primarily on films to 1945. Considers the rhetorical, artistic and political dimensions of film using the tools of textual analysis.

**ENGL 424** Units: 1.5  Hours: 3-0  
**Print Media Genres and Techniques for Professional Communication**

A study of major accomplishments in international narrative film, concentrating primarily on films since 1945 and including post-colonial works. Considers the rhetorical, artistic and political dimensions of film using the tools of textual analysis.

**ENGL 425** Units: 1.5  Hours: 3-0  
**Print Media Genres and Techniques for Professional Communication**

A study of major accomplishments in international narrative film, concentrating primarily on films since 1945 and including post-colonial works. Considers the rhetorical, artistic and political dimensions of film using the tools of textual analysis.

**ENGL 426** Units: 1.5  Hours: 3-0  
**Print Media Genres and Techniques for Professional Communication**

A study of major accomplishments in international narrative film, concentrating primarily on films since 1945 and including post-colonial works. Considers the rhetorical, artistic and political dimensions of film using the tools of textual analysis.

**ENGL 427** Units: 1.5  Hours: 3-0  
**19th-Century American Prose and Poetry**

A study of the 19th-century prose and poetry which led to the full maturity of a distinctive social, political and intellectual literature, with particular emphasis on American transcendentalism. Authors may include Emerson, Fuller, Poe, Thoreau, Douglass, Jacobs, Whitman, Dickinson, William James and Du Bois.
ENGL 428A - ENGL 436B

ENGL 428A  Units: 1.5  Hours: 3-0
Formerly: part of 428
19th-Century American Fiction I
A study of American fiction up to the Civil War. Authors to be covered may include Irving, Cooper, Poe, Hawthorne, Melville, Stowe.
Note: Credit will be granted for only one of ENGL 428A, ENGL 428B.

ENGL 428B  Units: 1.5  Hours: 3-0
Formerly: part of 428
19th-Century American Fiction II
American fiction from the Civil War to 1900; authors may include Alcott, Howells, Twain, James, Crane, Gilman, Jewett, Chopin, Cheechnut.
Note: Credit will be granted for only one of ENGL 428A, ENGL 428B.

ENGL 429A  Units: 1.5  Hours: 3-0
Formerly: part of 429
20th-Century American Fiction to World War II
The American novel and short story in the first 40 years of the 20th century; authors may include James, Stein, Dreiser, Wharton, Cather, Hemingway, Fitzgerald, Larsen, Dos Passos, Faulkner, Steinbeck, West, Hurston, Wright.
Note: Credit will be granted for only one of ENGL 429A, ENGL 429.

ENGL 429B  Units: 1.5  Hours: 3-0
Formerly: part of 429
Mid-20th-Century American Fiction
The American novel and short story from the 1940s through the 1970s; authors may include Mailer, Ellison, O’Connor, Nabokov, Pynchon, Plath, Updike, Vonnegut, Bellow, Malamud, Roth, Doctorow, Kingston, Momaday, Reed, Morrison.
Note: Credit will be granted for only one of ENGL 429B, ENGL 429.

ENGL 429C  Units: 1.5  Hours: 3-0
Formerly: part of 429
Contemporary American Fiction
The American novel and short story from the 1980s to the present; authors may include Toni Morrison, Alice Walker, Tim O’Brien, John Updike, Philip Roth, Marylynn Robinson, Raymond Carver, Don DeLillo, Cormac McCarthy, Barbara Kingsolver, William Gibson, Art Spiegelman, Louise Erdrich, Sandra Cisneros, Richard Powers, Sherman Alexie.
Note: Credit will be granted for only one of ENGL 429C, ENGL 429.

ENGL 431A  Units: 1.5  Hours: 3-0
Formerly: part of 431
Modern American Poetry I
Focuses on the first generation of American modernist poets whose major work begins to be written between the mid-1920s. Poets may include Ezra Pound, Marianne Moore, T.S. Eliot, Gertrude Stein, Robert Frost, Wallace Stevens, William Carlos Williams, Mina Loy and H. D.
Note: Credit will be granted for only one of ENGL 431A, ENGL 431.

ENGL 431B  Units: 1.5  Hours: 3-0
Formerly: part of 431
Modern American Poetry II
Focuses on poets whose major work begins to be written in the 1920s and 1930s, the period in which Modernism in the arts was establishing its cultural authority. Poets may include Hart Crane, Langston Hughes, Muriel Rukeyser, Louis Zukofsky, Laura Riding, Jean Toomer, George Oppen and Lorine Niedecker.
Note: Credit will be granted for only one of ENGL 431B, ENGL 431.

ENGL 432A  Units: 1.5  Hours: 3-0
Formerly: part of 432
American Poetry: 1950-1975
Detailed study of American poetry from 1950 to 1975. The main poets studied may include: Charles Olson, Robert Duncan, Robert Creeley, Denise Levertov, Frank O’Hara, John Ashbery, Audre Lorde, Adrienne Rich, Elizabeth Bishop, James Merrill.
Note: Credit will be granted for only one of ENGL 432A, ENGL 432.

ENGL 432B  Units: 1.5  Hours: 3-0
Formerly: part of 432
American Poetry: from 1975 to the Present Day
Detailed study of American poetry from 1975 to the present. The main poets studied may include: Jorie Graham, Audre Lorde, Rita Dove, Ai, Lyn Hejinian, Susan Howe, Michael Palmer, Charles Bernstein, Kathleen Fraser, Bob Perelman.
Note: Credit will be granted for only one of ENGL 432B, ENGL 432.

ENGL 433A  Units: 1.5  Hours: 3-0
Formerly: part of 433
Modern Irish Literature
Focuses on the literature that responded to Ireland’s turbulent socio-political history from roughly 1900 to World War II. Includes the Irish literary revival and responses to various movements associated with modernism. Comparative treatment of Irish literature in dialogue with English, American and continental European literature. Authors may include Wilde, Shaw, O’Casey, George Moore, Yeats, Gregory, Joyce, Bowen and Beckett.
Note: Credit will be granted for only one of ENGL 433A, ENGL 433.

ENGL 433B  Units: 1.5  Hours: 3-0
Formerly: part of 433
Contemporary Irish Literature
Irish literature after World War II. Includes the effect of 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 433B, ENGL 433.

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
Modernist 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 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 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.
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<tr>
<th>Course Code</th>
<th>Units</th>
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| ENGL 437A  | 1.5   | 3-0   | 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  | 1.5   | 3-0   | 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   | 1.5   | 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. |
| ENGL 439A  | 1.5   | 3-0   | 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 447   | 1.5   | 3-0   | Classic Literary Criticism
May include works by Ethel Wilson, Howard O'Hagan, George Bowering, Jack Hodgins, Daphne Marlatt, Martin Allerdale Grainger, Emily Carr. Note: Credit will be granted for only one of ENGL 447, ENGL 467, ENGL 468. |
| ENGL 448   | 1.5   | 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   | 1.5   | 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   | 1.5   | 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 MacLennan, Wiseman, Marilyn, Grove, Wilson, Watson and Ross. |
| ENGL 451   | 1.5   | 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. Writers may include Marlatt, Bowering, Lai, Ondaatje, Brand and King. |
| ENGL 452   | 1.5   | 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, Purdy and Klein. Note: Credit will be granted for only one of ENGL 452, ENGL 397. |
| ENGL 453   | 1.5   | 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 Scofield, Kroetsch, Moure, Carson, McKay and Zwick. Note: Credit will be granted for only one of ENGL 453, ENGL 397. |
| ENGL 454   | 1.5   | 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 Martel, Rohinton Mistry, Anita Badami, Jaspreet Singh and Larissa Lai. Note: Credit will be granted for only one of ENGL 454, ENGL 447, ENGL 467, ENGL 468. |
| ENGL 455   | 1.5   | 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 454, 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 Emison; 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 471 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 472 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 475 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 476 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.

ENGL 479 Units: 1.5 Hours: 3-0
Victorian and Edwardian Children's Fiction
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 481 Units: 1.5 Hours: 3-0
In the Archives
A variable content course focusing on book history and textual scholarship with University Special Collections and Archives. Emphasis on material objects, bibliography, and hands-on, project-based practice. May include study of medieval manuscripts, early modern manuscripts and print, Victorian periodicals and modernist papers.
Notes:
• Credit will be granted for only one of ENGL 481, ENGL 353 (if taken in Jan-Apr 2015, Sep-Dec 2015, or Sep-Dec 2016), MEDI 451 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

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

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 BM E 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 002; and
- one of BM E 201, CENG 299, CIVE 285, ELEC 299, MECH 285, SENG 299; and
- permission of the faculty.

ENGR 005 Units: 4.5 Directing 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.

ENGR 007 Units: 4.5 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 008 Units: 4.5 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 009 Units: 4.5 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 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; referenc ing 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, ELEC 225.

Prerequisite(s):
- One of ENGR 110, ENGR 111, ENGR 112 and ENGL 135, ELEC 199 and ENGL 135; and
- CSC 110 or CSC 111 (CSC 111 may be taken as a corequisite).

ENGR 121 Units: 1.0 Hours: 1-2-0 Design II

Principles of engineering design with application to biomedical, civil, computer, electrical, mechanical and software engineering through practical projects to be undertaken by teams of students.

Note: Credit will be granted for only one of ENGR 121, ENGR 120.

Prerequisite(s):
- One of ENGR 110, ENGR 111, ENGR 112 and ENGL 135, ELEC 199 and ENGL 135; and
- ENGR 240 or ELEC 225; and
- CSC 110 or CSC 111 (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 - ENT 411

ENGR 141  Units: 1.5  Hours: 3-0-1
Formerly: MECH 141
Engineering Mechanics
Forces, moments of forces, couples, resultants of force systems; distributed loads; hydrostatics; conditions of equilibrium and applications to particles and rigid bodies in two dimensions; analysis of statically determinate structures including beams, trusses and arches; bending moment and shear force diagrams; dry friction.
Note: Credit will be granted for only one of ENGR 141, MECH 141, MECH 241, MECH 245.
Prerequisite(s): MATH 100 or MATH 109.
Pre- or Corequisite(s): MATH 110 or MATH 211.

ENGR 240  Units: 1.5  Hours: 3-0
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, ENGL 225, ENGL 226, ENGL 240.
Prerequisite(s): One of ENGR 110, ENGR 111, ENGL 135, ENGL 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), ADMN 310, ECON 103, ECON 103C, ECON 180, ECON 201.
Prerequisite(s): • MATH 110 and MATH 133; and
• MATH 211 or MATH 233A.
Pre- 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 topic 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, CIVE, 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 225

ENT 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.
• Enrollment 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
Venture Marketing Expertise (Promise Skills)
As part of the integrated Entrepreneurship Core, this course material is designed to help students to develop the conceptual tools and techniques needed for market scanning, opportunity recognition, product development, market acceptance, and the establishment and maintenance of venture stakeholder relationships. This element of the Entrepreneurship area of specialization will help students to develop skills in identifying and building the market relationships upon which successful entrepreneurship is based.
Prerequisite(s): • All of COM 315, COM 316, COM 321, COM 322, COM 331, COM 341, COM 351, COM 361, COM 362, COM 371; or
• permission of the school.
Corequisite(s): All of ENT 411, ENT 412, ENT 413, ENT 400.

ENT 411  Units: 1.5  Hours: 3-0
Venture Planning/Finance Expertise (Planning Skills)
As part of the integrated Entrepreneurship Core, this course material is designed to help students develop the conceptual tools and techniques necessary to identify critical venture attributes and processes, and the consequent financial outcomes of venture creation decisions. This element of the Entrepreneurship area of specialization will help students to develop skills in recognizing the decision points and enacting the choice patterns that lead to relevant venture outcomes.
Prerequisite(s): • All of COM 315, COM 316, COM 321, COM 322, COM 331, COM 341, COM 351, COM 361, COM 362, COM 371; or
• permission of the school.
Corequisite(s): All of ENT 410, ENT 412, ENT 413, ENT 400.
### ENT 412 - EOS 260

#### Earth and Ocean Sciences

**School of Earth and Ocean Sciences**

**Faculty of Science**

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<td>EOS 110</td>
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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.

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<td>EOS 120</td>
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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.

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Formerly: part of 370

**Natural Hazards**

An overview of natural hazards including earthquakes, volcanoes, tsunami, landslides, flooding, extreme weather, and meteor impacts. Particular attention is given to hazards related to climate change, hazards affecting southwestern British Columbia, and important historic natural disasters. This is an introductory-level course that does not require a science/math background.

**Note:** Credit will be granted for only one of EOS 170, EOS 370.

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**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.

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**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.

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**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.

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Also: PHYS 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 EOS 210, PHYS 210.

**Prerequisite(s):**

- MATH 101, and
- one of PHYS 110, PHYS 112, PHYS 120, PHYS 122.

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**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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**Geochemistry**

Thermodynamic and kinetic approaches to understanding the Earth system. Application of theory to practical questions such as mineral formation, weathering, water quality, and petroleum formation. Thermodynamic and kinetic approaches are applied to the general geochemistry of the oceans, atmosphere and solid earth.

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

**Prerequisite(s):**

- All of EOS 110, EOS 120, EOS 205, and
- one of CHEM 245, PHYS 217, PHYS 317.

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**Earth System Evolution**

Introduces the inherently interdisciplinary field of “Earth System Science” by studying how Earth has evolved throughout its history. Focus is on processes which link components of the Earth system and feedbacks which may alternately keep conditions on Earth stable or cause major change. The course includes study of some major events in Earth history (examples may include snowball Earth, mass extinctions, superplume events).

**Prerequisite(s):**

- EOS 110 and EOS 120, and
- CHEM 101 or CHEM 150, or
- permission of the department.
EOS 300  
**Units:** 1.5  
**Earth Science Field School**
An up to two-week field course in and around southern Vancouver Island during which the students will be introduced to geological fieldwork (mapping, traversing, drawing sedimentary logs, sampling, recording field notes) and the regional geology and tectonics of Vancouver Island. Normally held in late April - early May after examinations for Year 2.

**Note:** Priority is given to students registered to BSc program in Earth Sciences or Combined Physics and Earth Sciences or Combined Chemistry and Earth and Ocean Sciences or Combined Physical Geography and Earth and Ocean Sciences or Combined Biology and Earth and Ocean Sciences.

**Prerequisite(s):**  
- All of EOS 201, EOS 202, EOS 205; and  
- declared Honours or Major in Earth Sciences or declared Combined Honours or Major in Physics and Earth Sciences, Chemistry and Earth and Ocean Sciences, Physical Geography and Earth and Ocean Sciences, or Biology and Earth and Ocean Sciences; or  
- permission of the school.

EOS 311  
**Units:** 1.5  
**Hours:** 3-3  
Also: BIOL 311 (formerly BIOL 311B)

**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 161, and  
- one of PHYS 102, PHYS 102A and PHYS 102B, PHYS 110 and PHYS 111, PHYS 120 and PHYS 130, and  
- minimum third-year standing.

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

EOS 312  
**Units:** 1.5  
**Hours:** 3-3

**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 ocean chemistry; air-sea exchange processes; 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 314, EOS 431; and  
- CHEM 102; and  
- one of MATH 100, MATH 102, MATH 109.

EOS 313  
**Units:** 1.5  
**Hours:** 3-3

**Introductory Geological Oceanography**
An introduction to the geological processes that shape the ocean basins, oceanic plate creation and structure, hydrothermal circulation at mid-ocean ridges, bathymetry, ocean islands, different types of ocean margins, ocean sediments, the sedimentary record of past ocean circulation, coastal geology.

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

EOS 314  
**Units:** 1.5  
**Hours:** 3-3

**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 required.

**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.

EOS 316  
**Units:** 1.5  
**Hours:** 3-3

Formerly: part of 310 and 320  
**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-solids 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  
- one of EOS 240, PHYS 217, PHYS 317.

EOS 330  
**Units:** 1.5  
**Hours:** 3-3

**Paleobiology**
Processes and patterns in the evolution of life through time: extinction, evolution and diversification as recognized from the fossil record. Major events in the history of life. The relationship of biotas to depositional systems: paleoecology, biostratigraphy and paleobiogeography. The major groups of microfossils and invertebrates will be studied with emphasis on their applications in Earth Sciences. Laboratories and field trips will provide illustrative fossil examples.

**Note:** Credit will be granted for only one of EOS 330, EOS 360.

**Prerequisite(s):**  
- Biology 12 or BIOL 150A; and  
- EOS 201; or  
- permission of the school.

EOS 333  
**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

**Atmospheric Sciences**
Introduction to the dynamic and thermodynamic processes governing the Earth's weather and climate. Emphasis on energy and temperature; cloud and precipitation processes; winds and weather systems; ocean-atmosphere interaction; El Niño; and past, present and future climates.

**Note:** Credit will be granted for only one of EOS 340, PHYS 340.

**Prerequisite(s):**  
- One of PHYS 102, PHYS 102A and PHYS 102B, PHYS 110 and PHYS 111, PHYS 120 and PHYS 130; or  
- permission of the department.

**Pre- or Corequisite(s):**  
- Either EOS 225, or two of MATH 200, MATH 201, MATH 204, MATH 205; and  
- one of CHEM 245, PHYS 217, PHYS 317.

**Notes:**  
- Credit will be granted for only one of EOS 350, EOS 110 (if taken prior to May 2011), GEOG 110  
- Credit for this course will not be counted toward program requirements in Earth and Ocean Sciences (if taken prior to May 2011 or after May 2017), but Earth and Ocean Sciences students may take this course as an elective.

**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, overfishing, ocean acidification, marine conservation, and coastal modification.

**Notes:**  
- Credit will be granted for only one of EOS 350, EOS 110 (if taken prior to May 2011), GEOG 110  
- Credit for this course will not be counted toward program requirements in Earth and Ocean Sciences (if taken prior to May 2011 or after May 2017), but Earth and Ocean Sciences students may take this course as an elective.

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

**Notes:**  
- Credit will be granted for only one of EOS 365, 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.

**Notes:**  
- Credit will be granted for only one of EOS 365, ES 365.

**Prerequisite(s):**  
- Minimum third-year standing.  
- If taken as ES 365, ES 200 and minimum third-year standing.
**EOS 400 - Advanced Field Geology**

Units: 1.5

A field trip of up to two weeks' 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 330 strongly recommended prior to EOS 400.

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**EOS 403 - Global Biogeochemical Cycles**

Units: 1.5

Hours: 3-0

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.

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**EOS 408 - Marine Geology**

Units: 1.5

Hours: 3-0

A combined lecture and seminar course covering modern marine geological processes in a wide range of oceanic environments: mid-ocean ridges, mid-plate volcanoes and hot spots, coastlines, continental margins and abyssal plains. Modern methods of data collection and analysis, including the Ocean Drilling Program.

*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 school.

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**EOS 410 - Global Tectonics**

Units: 1.5

Hours: 3-0

A study of global tectonic systems including geological, geophysical, geochemical and geographical perspectives on major tectonic environments. A wide range of examples from different continents will be used. Vancouver Island will also be examined.

**Prerequisite(s):**
- EOS 202; or
- permission of the school.

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**EOS 416 - High Temperature Petrology**

Units: 1.5

Hours: 3-3

Formerly: part of 310 and 320

The thermodynamic and kinetic principles controlling the origin and behaviour of rocks at high temperatures and pressures. Thermodynamic and kinetic relations in igneous and metamorphic systems applied to understanding the petrogenesis of magmatic and metamorphic rock suites. Applications to the geodynamic, hydrothermal and tectonic evolution of the Earth and terrestrial planets.

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

**Prerequisite(s):**
- One of EOS 310, EOS 316, EOS 320; and
- one of CHEM 245, PHYS 217, PHYS 317.

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**EOS 420 - Resource Geology**

Units: 1.5

Hours: 3-3

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.

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**EOS 422 - Energy Resources**

Units: 1.5

Hours: 3-0

Formerly: part of 420

Discusses the Earth's major economic natural energy resources. Focuses on conventional oil and gas, coal, CBM and tar sands, including modes of formation, accumulation and recovery, along with the mechanisms of migration and trapping. Canadian examples of petroleum systems and basin modelling augment the material. To a lesser degree, other energy sources are looked at, such as nuclear fuels, solar, hydrogen, geothermal, biogas, wind and tidal, as well as related socio-economic-environmental issues.

*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.

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**EOS 425 - Aqueous Chemistry in the Earth and Ocean**

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.

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**EOS 427 - Geophysics**

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.

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**EOS 431 - Physical Oceanography**

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, 444, 445.

**Prerequisite(s):**
- Either EOS 225, 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; or
- permission of the school.

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**EOS 433 - The Climate System**

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.
Quaternary Geology
The methods and theory of Quaternary research, stressing the processes of interaction between the geosphere and biosphere. Topics include dating methods, paleoenvironmental studies, glaciation and global change, geological hazards, interdisciplinary research and applied studies, particularly the influence for engineering design.
Prerequisite(s):
- EOS 201 and EOS 240, or
- permission of the school.

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).

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.

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.

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.

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 “bed” 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: ANP, standard grade (assigned upon completion of 499B, if 499B is not completed, a grade equivalent to N will be assigned to 499A).

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 “bed” 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.

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, EDC, EPHE, IA, IED, IE, ME.

Special Activity
Used to pilot a new activity or as a directed study for a special activity not included in EPHE 105-137.
Notes:
- Pro Forma required.
- With special permission, may be taken more than once for credit in a degree program.
Prerequisite(s): One of admission to BEd (Secondary Curriculum) program with physical education teaching area, admission to BA program in Recreation and Health Education, admission to BSc program in Kinesiology.
**EPHE 116**  Units: 0.5  Hours: 2-0
Formerly: PE 116
Badminton
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant’s level of performance, ability to analyze skills, and understanding of concepts within the activity of badminton.

**Note:** Credit will be granted for only one of EPHE 116, PE 116.

**EPHE 117**  Units: 0.5  Hours: 2-0
Formerly: PE 117
Tennis
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant’s level of performance, ability to analyze skills, and understanding of concepts within the activity of tennis.

**Note:** Credit will be granted for only one of EPHE 117, PE 117.

**EPHE 119**  Units: 0.5  Hours: 2-0
Formerly: PE 119
Contemporary Dance
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.

**EPHE 120**  Units: 0.5  Hours: 2-0
Formerly: PE 120
Basketball
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant’s level of performance, ability to analyze skills, and understanding of concepts within the activity of basketball.

**Note:** Credit will be granted for only one of EPHE 120, PE 120.

**EPHE 121**  Units: 0.5  Hours: 2-0
Formerly: PE 121
Soccer
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant’s level of performance, ability to analyze skills, and understanding of concepts within the activity of soccer.

**Note:** Credit will be granted for only one of EPHE 121, PE 121.

**EPHE 122**  Units: 0.5  Hours: 2-0
Formerly: PE 122
Volleyball
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant’s level of performance, ability to analyze skills, and understanding of concepts within the activity of volleyball.

**Note:** Credit will be granted for only one of EPHE 122, PE 122.

**EPHE 123**  Units: 0.5  Hours: 2-0
Formerly: PE 123
Rugby
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant’s level of performance, ability to analyze skills, and understanding of concepts within the activity of rugby.

**Note:** Credit will be granted for only one of EPHE 123, PE 123.

**EPHE 124**  Units: 0.5  Hours: 2-0
Formerly: PE 124
Field Hockey
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant’s level of performance, ability to analyze skills, and understanding of concepts within the activity of field hockey.

**Note:** Credit will be granted for only one of EPHE 124, PE 124.

**EPHE 125**  Units: 0.5  Hours: 2-0
Formerly: PE 125
Softball
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.

**EPHE 126**  Units: 0.5  Hours: 2-0
Formerly: PE 126
Orienteering
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant’s level of performance, ability to analyze skills, and understanding of concepts within the activity of orienteering.

**Note:** Credit will be granted for only one of EPHE 126, PE 126.

**EPHE 127**  Units: 0.5  Hours: 2-0
Formerly: PE 127
Strength Training
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant’s level of performance, ability to analyze skills, and understanding of concepts within the activity of strength training.

**Note:** Credit will be granted for only one of EPHE 133, PE 133.

**EPHE 133**  Units: 0.5  Hours: 2-0
Formerly: PE 133
Strength Training
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant’s level of performance, ability to analyze skills, and understanding of concepts within the activity of strength training.

**Note:** Credit will be granted for only one of EPHE 133, PE 133.

**EPHE 134**  Units: 0.5  Hours: 2-0
Formerly: PE 134
Yoga
Intended for students pursuing degrees in the Faculty of Education. Designed to develop each participant’s level of performance, ability to analyze skills, and understanding of concepts within the activity of yoga.

**Note:** Credit will be granted for only one of EPHE 134, PE 134.

**EPHE 135**  Units: 0.5  Hours: 2-0
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 use/abuse; environmental awareness; goal setting; and the process of decision-making.

**Note:** Credit will be granted for only one of EPHE 142, PE 142.
448  EPHE 143 - EPHE 310

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 psychosociological 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 155  Units: 1.5  Hours: 3-0
Formerly: PE 155
Introduction to Nutrition: Concepts and Controversies
The basics of diet planning, dietary guidelines and weight management will be covered through the application and demonstration of nutritional principles and their relationship to physical activity and health. Controversial topics such as ergogenic aids, vitamin and mineral supplementation, alcohol, diets and organic foods will be discussed using a balanced view of scientific evidence.
Note: Credit will be granted for only one of EPHE 155, PE 155.

EPHE 156  Units: 1.5  Hours: 3-0
The Science of Batman
The extreme range of adaptability of the human body explored through the life of the Caped Crusader, examines human potential using Batman as a metaphor for the ultimate in human conditioning; evaluates the concepts of adaptation to exercise and injury from the perspective of science and exercise training; examines the multiple sciences behind exercise adaptation, musculoskeletal injury and concussion, and limitations of the human body and mind.

EPHE 200  Units: 0  Hours: 1.5-0
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 201  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).

EPHE 241  Units: 1.5  Hours: 3-2
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.
Prerequisite(s): EPHE 141 or PE 141.

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.
Prerequisite(s): One of Biology 12, BIOL 150B, BIOL 186, BICL 190B.

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
Canadian Recreation Delivery Systems
An overview of the development and delivery of recreational programs in Canada; Canadian federal, provincial, municipal, private and volunteer agencies are described and analyzed.
Note: Credit will be granted for only one of EPHE 244, PE 244.

EPHE 245  Units: 1.5  Hours: 3-2
Formerly: PE 245
Motor Learning
Neural and cognitive processes underlying human skilled action and the factors that influence learning and control of these actions. Ways in which the human motor system enables the acquisition and retention of complex movement skills and implications for the design of instructional situations to support retention and optimal performance of skilled actions.
Note: Credit will be granted for only one of EPHE 245, PE 245.

EPHE 246  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.
Notes:
• Credit will be granted for only one of EPHE 246, PE 246, PE 144.
• May also be of interest to those working in the recreation or health fields.

EPHE 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 253  Units: 1.5  Hours: 3-0
Formerly: PE 253
Program Planning
An analysis and application of theoretical and practical approaches for developing effective recreation/leisure services, sport, fitness, wellness, and health promotion programs.
Note: Credit will be granted for only one of EPHE 253, PE 253.

EPHE 270  Units: 1.5  Hours: 3-0
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.
Notes:
• Credit will be granted for only one of EPHE 270, PE 270.
• This course does NOT include an experiential component.

EPHE 310  Units: 1.5  Hours: 3-0
Formerly: EPHE 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): Admission to BEd program in Elementary Education.
EPHE 311 - Units: 1.5 - Hours: 3-0
Formerly: PE 311, part of PE 304
Physical Education for General Classroom Teachers: B
Extends and refines the knowledge and pedagogical skills included in EPHE 310. Overall focus is on broadening their application to a variety of different movement categories in the elementary physical education curriculum. Students learn to create inclusive unit and yearly plans that encourage children to incorporate physical activity as part of a healthy lifestyle. Includes a variety of teaching experiences with elementary school-age children.

Notes:
- Credit will be granted for only one of EPHE 311, PE 247, PE 304, PE 311, 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 312 - Units: 1.5 - Hours: 3-0
Formerly: PE 312, part of PE 304
Overview of Elementary or Middle School Physical Education
Overview of the content and structure of the BC elementary or middle school physical education curriculum. Introduces basic pedagogical skills necessary to implement a quality physical education program. Focus is on the learning of movement skills and on the developing student as a learner. Includes a variety of teaching experiences with peers and elementary or middle school students.

Notes:
- Credit will be granted for only one of EPHE 312, PE 312, PE 247, PE 304, or EDUC 304.
- Students with credit in EPHE 312 may not receive credit for EPHE 310 and/or EPHE 311.

Prerequisite(s): Admission to BEd post-degree professional program in Elementary or Middle Years Education.

EPHE 341 - Units: 1.5 - Hours: 3-2
Formerly: PE 341
Biomechanics
Focuses on the fundamental physical and mechanical laws that control human movement and relates these laws to the techniques used in a variety of motor skills. Teaches how optimal performances in motor skills are based on the best use of these laws.

Note: Credit will be granted for only one of EPHE 341, PE 341.

Prerequisite(s):
- EPHE 201; and
- MATH 100 or MATH 102; and
- one of PHYS 102, PHYS 102A, PHYS 110.

EPHE 342 - Units: 1.5 - Hours: 3-0
Formerly: PE 342
History of Physical Education
Interpretative study and analysis of physical education and sport through their historical development; current trends, social and cultural implications; relationship to education.

Note: Credit will be granted for only one of EPHE 342, PE 342.
### EPHE 358 - EPHE 447

**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.  
**Pre- or Corequisite(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 385**  
**Units:** 1.5  
**Hours:** 3-0  
Formerly: PE 385, EDUC 445  
Cultural and Outdoor Physical Activities

Provides the opportunity for students to develop an understanding and appreciation of a variety of outdoor physical activities and cultural movement forms suitable for children and youth.  
**Note:** Credit will be granted for only one of EPHE 385, PE 433, EDUC 435.  
**Prerequisite(s):**  
- Admission to BEd program in Elementary Education; or  
- permission of the school.

**EPHE 435**  
**Units:** 1.5  
**Hours:** 3-0  
Formerly: PE 435, EDUC 445  
Study of Gymnastics and Dance

Drawing on Laban’s four elements of movement (space awareness, body awareness, qualities and relationships) for analyzing and teaching creative movement activities, this course will explore the application of these elements to the study of gymnastics and dance.  
**Note:** Credit will be granted for only one of EPHE 439, PE 439, EDUC 445, PE 439.  
**Prerequisite(s):**  
- One of admission to BEd (Elementary Curriculum) program, or  
- permission of the school.

**EPHE 439**  
**Units:** 1.5  
**Hours:** 3-0  
Formerly: PE 439, EDUC 445  
Cultural and Outdoor Physical Activities

Provides the opportunity for students to develop an understanding and appreciation of a variety of outdoor physical activities and cultural movement forms suitable for children and youth.  
**Note:** Credit will be granted for only one of EPHE 385, PE 433, EDUC 435.  
**Prerequisite(s):**  
- Admission to BEd program in Elementary Education; or  
- permission of the school.

**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 445.  
**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 353 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
Formerly: PE 451
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 487  Units: 1.5 or 3.0  Hours: 3-0
Formerly: PE 487
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.

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 engages in application and assessment of methods in ecological restoration. Must include at least 150 hours of applied activities. Assessment typically involves a reflective journal and final paper. Students are responsible for proposing an internship and arranging for a supervising instructor.
Notes:
• Credit will be granted for only one of ER 250, ES 250.
• May be taken more than once for credit in different topics for a maximum of 3 units.
Prerequisite(s): Permission of the program.

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 - ER 334

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 ecozones 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
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.

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
Selection and Propagation of Native Plants for Ecological Restoration
An introduction to the principles of native plant selection and propagation to meet site-specific objectives for ecosystem restoration. Topics include native plant propagation techniques; the role of artificial propagation in ecosystem rehabilitation and restoration; criteria for species selection; scientific and ethical principles for the collection of propagation materials; site stabilization; site preparation; out-planting; and bio-engineering.
Note: Credit will be granted for only one of ER 332, ER 338 (if taken in the same topic).
Prerequisite(s):
• Admission to Certificate or Diploma program in Restoration of Natural Systems; or
• permission of the program.

ER 334 Units: 1.5
Soil Conservation and Restoration
Physical, chemical and biological characteristics of soils and their relationship to restoration. Soil fertility; importance of soil flora and fauna, especially mycorrhizae. Comparison of characteristics of undisturbed soils. Types of soil disturbance in agriculture, forestry, mining and urban environments; soil restoration strategies; planning pre- and post-disturbance.
Prerequisite(s):
• Admission to Certificate or Diploma program in Restoration of Natural Systems; or
• permission of the program.

Recommendation(s): Background in physical geography such as GEOG 103 or equivalent strongly recommended prior to ER 334
ER 335A Units: 1.5
Restoration of Fresh Water Aquatic Systems
Theory and case studies of disturbances and restoration; character and processes of aquatic systems; types of natural aquatic systems; types of disturbance and their impact; restoration strategies for watersheds, riparian zones, streams, rivers, lakes and wetlands.
Prerequisite(s):
• Admission to Certificate or Diploma program in Restoration of Natural Systems; or
• permission of the program.

ER 335B Units: 1.5
Restoration of Marine Aquatic Systems
Provides students with an understanding of marine coastal systems and their restoration potential with a focus on ecological perspectives, with particular emphasis on the British Columbia/Washington coasts. Lectures that focus on broader scale marine ecosystem impacts and restoration issues will be supplemented by hands-on field exercises and research activities focusing on local issues.
Prerequisite(s):
• Admission to Certificate or Diploma program in Restoration of Natural Systems; or
• permission of the program.
Recommendation(s): Background in Biology strongly recommended prior to ER 335B.

ER 336 Units: 1.5
Leadership Skills for Ecological Restoration
Provides students with skills and tools for effective leadership in ecological restoration. Focuses on identification of personal leadership style, understanding of leadership roles in ecological restoration processes, group facilitation techniques, as well as strategies for effective outreach, communications, giving and receiving feedback, and dispute resolution.
Prerequisite(s):
• Admission to Certificate or Diploma program in Restoration of Natural Systems; or
• permission of the program.

ER 338 Units: 0.5 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 352 Units: 1.5
Non-Timber Forest Management and Sustainable Use in Major Forest Zones of BC
An introduction to biogeoclimatic zones and natural disturbance regimes in BC in relation to the occurrence of important NTFP species and the ecosystems that sustain them. Topics include the impacts of current land use and resource extraction on NTFP occurrence and productivity; and the influence of disturbance classes, biogeoclimatic zones, and current ecological condition on the selection of appropriate NTFP management practices.
Prerequisite(s):
• Admission to Certificate or Diploma program in Restoration of Natural Systems; or
• permission of the program.

ER 390 Units: 1.5
Environmental Restoration Project
In consultation with the Academic Administrator, students select a restoration project in an area of intended specialization. May involve a field research component. Final report required. Normally taken in the second or subsequent years of study.
Prerequisite(s): Admission to Certificate or Diploma program in Restoration of Natural Systems.
Grading: INP, standard grade.

ER 400 Units: 0
Seminar in Environmental Restoration
Seminar and portfolio presentation in the final year, normally in the field of intended specialization. Seminar is on 390 project, portfolio is of major projects from 311, 312A and 312B plus one elective.
Prerequisite(s): ER 390.
Grading: 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.

ER 412 Units: 1.5
Galiciano Island Field Study
Compressed format field study focused on regenerative and restorative designs for ecological and social resilience. Offered in partnership with the Galiciano Conservancy Association with field portion based on Galiciano Island. Additional fees are necessary to support field expenses.
Note: Credit will be granted for only one of ER 412, ER 411 (if taken in the same topic), ES 441 (if taken in the same topic), ES 471.
Prerequisite(s):
• If taken as ER 412,
• ER 311; and
• admission to Certificate or Diploma program in Restoration of Natural Systems; or
• permission of the program.
• If taken as ES 471,
• ES 200 and ES 341; or
• permission of the school.

ER 490 Units: 1.5 Hours: 3-0
Directed Studies
Individual studies on approved topics in ecological restoration undertaken in consultation with one or more faculty members.
Note: May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• ER 311; and
• minimum sessional GPA of 6.5 in the previous session; and
• admission to Certificate and Diploma program in Restoration of Natural Systems.

ES Environmental Studies
School of Environmental Studies
Faculty of Social Sciences

ES 200 Units: 1.5 Hours: 3-1
Formerly: 300A
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
Ecological Processes
An introduction to the discipline of ecology with a focus on understanding biotic processes as they relate to contemporary environmental challenges.
Recommendation(s): ES 200 recommended prior to or in conjunction with ES 240.
ES 250
Units: 1.5
Also: ER 250
Directed Experiential Learning in Ecological Restoration
Conducted in relation to work or volunteer activities with a host organization identified by the student and approved by the RNS Academic Administrator or the Director of the School of Environmental Studies. Student engages in application and assessment of methods in ecological restoration. Must include at least 150 hours of applied activities. Assessment typically involves a reflective journal and final paper. Students are responsible for proposing an internship and arranging for a supervising instructor.
Notes:
• Credit will be granted for only one of ES 250, ER 250.
• May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s): Permission of the school.

ES 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 302
Units: 1.5
Hours: 3-0
Formerly: 402, 420
Capitalism, Justice, and Sustainability
Examines how the global capitalist economy is transforming ecosystems, and how social and environmental challenges are in turn beginning to transform capitalism. Economic alternatives will be examined in local and global contexts (e.g. the social economy, steady state economies, and indigenous economic practices).
Note: Credit will be granted for only one of ES 302, ES 400A (if taken in Sep 1989 - Apr 1994), ES 402, ES 420
Prerequisite(s): ES 200.

ES 312
Units: 1.5
Also: ECON 381
Formerly: ECON 330
Environmental Economics
An introduction to the economic analysis of environmental problems. In particular, an examination of policy interventions in cases where market activities result in socially undesirable impacts on the environment. Topics typically include: externalities; pollution control policy; climate change; public goods; time, uncertainty and the environment; and trade and the environment.
Note: Credit will be granted for only one of ES 312, ECON 330, ECON 381.
Prerequisite(s): ECON 103.

ES 314
Units: 1.5
Hours: 3-0
Also: PHIL 333
Philosophy and the Environment
A philosophical investigation of the moral and conceptual dimensions of environmental problems. Different philosophies of the relation between humans and nature will be compared.
Notes:
• Credit will be granted for only one of ES 314, PHIL 333.
• May not be counted towards upper-level requirements in Honours or Major programs in Philosophy.
Prerequisite(s):
• Minimum third-year standing; or
• permission of the school.

ES 320
Units: 1.5
Hours: 3-0
Also: BIOL 370
Conservation Biology
Diversity of organisms, functioning of ecosystems, and the consequential impact of human activities. Topics include the nature of biological diversity; extinction and its causes; habitat alteration and fragmentation; effects of exotic species; economic and ethical considerations, practical applications and analytical tools; and legal frameworks for conserving species and habitats.
Note: Credit will be granted for only one of ES 320, ES 318, ES 348, BICK 370, ER 313.
Prerequisite(s):
• BIOL 186 or 190A; and
• BIOL 215 and BIOL 230; and
• STAT 255 or STAT 260.

ES 321
Units: 1.5
Hours: 3-0
Ethnecology
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 reconsideration of how we understand nature and natural processes, and how to intervene responsibly in ecosystems. Themes are drawn from landscape and community ecology, systems ecology, ethnoecology, restoration ecology, and political ecology.
Note: Credit will be granted for only one of ES 341, ES 352, ES 400D (if taken in Sep-Dec 1995 or Jan-Apr 1996), ER 311 (if taken prior to May 2015).
Prerequisite(s):
• ES 200 with a minimum grade of B- and ES 240; and
• minimum second-year standing; or
• permission of the school.

ES 344
Units: 1.5
Hours: 3-3
Also: BIOC 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, BIOC 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
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, BIOC 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: 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 ES 365, EOS 365.
Prerequisite(s):
- ES 200, and
- 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.
Pre- or Corequisite(s): ES 200 and ES 270.

**ES 378** Units: 1.5 Hours: 3-0
Leadership Skills for Change
Builds the skills necessary to lead effective change in community-engaged settings. Emphasis on personal and group communication skills, decision-making techniques, presentation and facilitation skills, ethics and self-awareness for leadership. Includes case studies, examinations of theories of leadership and social movements, and practical experience.
Prerequisite(s): ES 200.

**ES 380** Units: 1.5 Hours: 3-0
Formerly: 300B
Environmental Topics: Topics in Political Ecology
An in-depth systematic examination of specific environmental areas through seminars and projects; the development of appropriate responses to questions and problems within the selected areas; modes of interaction and communication with professional and community groups; application of theory to practice; qualitative vs. quantitative research methods. This course will be conducted as a seminar and may include a field trip for which a fee will be charged.
* Contact hours may vary depending on the topic.
Notes:
- Credit will be granted for only one of ES 380, ES 300B.
- May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s): ES 200.

**ES 381** Units: 1.5 Hours: 3-0
Formerly: 300B
Environmental Topics: Topics in Ethnoecology
An in-depth systematic examination of specific environmental areas through seminars and projects; the development of appropriate responses to questions and problems within the selected areas; modes of interaction and communication with professional and community groups; application of theory to practice; qualitative vs. quantitative research methods. This course will be conducted as a seminar and may include a field trip for which a fee will be charged.
* Contact hours may vary depending on the topic.
Notes:
- Credit will be granted for only one of ES 381, ES 300B.
- May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s): ES 200.

**ES 382** Units: 1.5 Hours: 3-0
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
Environmental Evidence in a Post-truth Era
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 403** Units: 1.5 Hours: 3-0
Also: LAW 384
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
Deep Roots, Trajectories of Environmental Thought
Examines 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 406 Units: 1.5 Hours: 3-0
Alternative Economies for Social Change
A consideration of the many forms of economic activity that go on outside competitive, profit-maximizing markets. The concept of ‘social enterprise’ is examined, with ways that communities, and not just individuals, develop their economies with goals of community benefit and social justice as well as material improvement. ‘The economy’ is treated as a landscape of different practices that may be obscured by concentrating just on market transactions.
Note: Credit will be granted for only one of ES 406, ES 380 (if taken in the same topic).
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 408 Units: 1.5 Hours: 3-0
Visual Ecology, Seeing the Wild
Explores the terrain of visual media that inform environmental studies in B.C. and internationally. Environmental movements and media campaigns; the visuality of place; art and activism; indigenous new media; representations and relations with non-human animals. Critically examines the politics of looking.
Note: Credit will be granted for only one of ES 408, ES 480 (if taken in the same topic).
Prerequisite(s): ES 200 and ES 301.

ES 409 Units: 1.5 Hours: 3-0
Food in Place, Skills for Change
Develops and puts into action student skills towards a current environmental issue. Training in working with the media. First Nations, and non-governmental organizations. Analyzes the role and impact of environmental policy actors.
Note: Credit will be granted for only one of ES 409, ES 480 (if taken in the same topic).
Prerequisite(s): ES 200 and ES 301.

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
Also: LAW 328
Formerly: ES 450
Green Legal Theory
Develops critical theoretical basis for extending the understanding of natural/social 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 328.
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, materials and medicines, 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 repossession that led to the creation of the space that became British Columbia.
Note: Credit will be granted for only one of ES 427, ES 481 (if taken in Jan-Apr 2005, Jan-Apr 2006, Sep-Dec 2007, Sep-Dec 2009, or Sep-Dec 2010).
Prerequisite(s): ES 200 and ES 321.

ES 429 Units: 1.5 Hours: 3-3
Urban Ethnoecology
Cultural understandings of ecosystems and knowledge of interactions between human activities and human habitats in urban settings. Explores the ways city dwellers understand and interact with urban and peri-urban habitats. Surveys the intersections between people and place in cities from an ethnoecological perspective to inform and contribute to initiatives to create sustainable cities.
Note: Credit will be granted for only one of ES 429, ES 481 (if taken in the same topic).
Prerequisite(s):
- ES 200; and
- minimum third-year standing.

ES 430 Units: 1.5 Hours: 3-0
Also: ANTH 401
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 ES 430, ANTH 401.
Prerequisite(s):
- ES 200; and
- ES 301 or ES 321.
- If taken as ANTH 401,
- ANTH 205 or
- permission of the department.

ES 431 Units: 1.5 Hours: 3-0
History, Science and Culture of Wine
Documents the evolution of human civilization through the lens of wine, chronicles the transition from mysticism to industrial global commoditization. Workshops examine terroir, varietal, age, price, quality and value of viticulture and oenological traditions from around the world, and what ‘sustainability’ means in this context.
Notes:
- Credit will be granted for only one of ES 431, ES 481 (if taken in the same topic).
- Mandatory workshop fee is required, due the first week of class.
Prerequisite(s):
- ES 200; and
- minimum third-year standing; or
- permission of the school.
ES 433 - Units: 1.5 - Hours: 3-0
Introduction to Permaculture Design
The origins, theory and design methods of permaculture. Examines foundational texts that have influenced the development of permaculture, as well as contemporary permaculture texts. Critical examination of a range of designs and applications, including food systems, water systems, energy systems, appropriate technologies, place making, and the built environment.
Note: Credit will be granted for only one of ES 433, ES 481 (if taken in the same topic).
Prerequisite(s):
• ES 200; and
• minimum third-year standing; or
• permission of the school.

ES 441 - Units: 1.5 - Hours: 3-0
Also: ER 411
Advanced Principles and Practice in Ecological Restoration
An advanced investigation into the meaning, limits, and significance of ecological restoration, including: how restoration is defined and why clear definitions are important; the role of historical knowledge in restoration; the changing character of restoration in a technological culture; ethical issues in restoration practice; participation and political process; cultural inclusion and the significance of restoration as a cultural mode; the international scope of restoration; and the paradox of design.
Note: Credit will be granted for only one of ES 441, ES 482 (if taken in the same topic), ER 411.
Prerequisite(s):
• ES 341 and ER 311; or
• permission of the school.

ES 443 - Units: 1.5 - Hours: 3-0
Climate Change and Biodiversity
Examines the challenges a changing climate poses for ecology and conservation biology research and management, including ecological restoration. Particular attention is given to reading scientific papers, both those that present biodiversity pattern and process changes, as well as those that present management solutions to climate-driven biodiversity loss.
Note: Credit will be granted for only one of ES 443, ES 482 (if taken in 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.
Note: Credit will be granted for only one of ES 445, ES 482 (if taken in same topic).
Prerequisite(s): ES 200 and ES 341.

ES 446 - Units: 1.5 - Hours: 3-0
Formerly: ES 426
Sustainable Fisheries
A practical examination of sustainable fisheries from a variety of interdisciplinary perspectives. Examines sustainability issues for fisheries and aquaculture through an integrated study of fish biology/ecology, oceanography, hydrology, environmental impact assessment, natural resource management and environment and land use planning.
Note: Credit will be granted for only one of ES 446, ES 400C, ES 426 (if taken in Sep 1992 - Apr 1996).
Prerequisite(s):
• ES 200; and
• ES 321 or ES 341.

ES 461 - Units: 1.5 - Hours: 3-0
Also: GEOG 301
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.
Note: Credit will be granted for only one of ES 461, ES 410, ES 400A (if taken prior to September 1989), GEOG 301, GEOG 301 (if taken in the same topic).
Prerequisite(s):
• ES 200; and
• one of 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.
Note: May be taken more than once for credit in different topics with permission of the school.
Prerequisite(s):
• ES 200; and
• one of ES 301, ES 321, ES 341.

ES 471 - Units: 1.5
Also: ER 412
Galiano Island Field Study
Compressed format field study focused on regenerative andrestorative designs for ecological and social resilience. Offered in partnership with the Galiano Conservancy Association with field portion based on Galiano Island. Additional fees are necessary to support field expenses.
Note: Credit will be granted for only one of ES 471, ES 441 (if taken in the same topic), ER 412, ER 411 (if taken in the same topic).
Prerequisite(s):
• If taken as ES 471, ES 200 and ES 341; or
• permission of the school.
• If taken as ER 412, ER 311; and
• admission to Certificate or Diploma program in Restoration of Natural Systems; or
• permission of the program.

ES 473 - Units: 1.5 - Hours: 3-0
Practical Permaculture Applications
An advanced practical study of permaculture principles in an intensive field-based setting. Focus on implementing concepts and practicing skills introduced in ES 433.
Note:
• Credit will be granted for only one of ES 473, ES 470 (if taken in the same topic).
• Field course fees will be charged.
Prerequisite(s):
• ES 433; and
• permission of the school.

ES 480 - Units: 1.5 - Hours: 3-0*
Formerly: 400A-D
Advanced Environmental Topics in Ethnoecology
A focused, in-depth systematic examination of specific environmental areas through seminars and projects; the development of appropriate responses to questions and problems within the selected areas; modes of interaction and communication with professional and community groups; application of theory to practice; and qualitative vs. quantitative research methods. These courses will be conducted as seminars and may include a field trip for which a fee will be charged.
* Contact hours may vary depending on the topic.
Note: May be taken more than once for credit in different topics.
Prerequisite(s): ES 200 and ES 301.

ES 481 - 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 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.

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**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.

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**FA Fine Arts**

**Interdisciplinary Courses**

**Faculty of Fine Arts**

Fine Arts Interdisciplinary courses focus on the study and creation of art and ideas that cross the traditional departmental areas within the Fine Arts. For information, contact the Associate Dean of Fine Arts.

**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.

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**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.

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**FA 101**

**Units:** 1.5  
**Hours:** 2-1

**Creative Being**

An exploration of the diversity within creative practice and theory that builds bridges across disciplines and challenges students' understanding of the creative process.

**Notes:**
- Credit will be granted for only one of FA 101, FA 100 (if taken in the same topic).
- A required course for all Faculty of Fine Arts students.

**FA 200**

**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 3 units.

**FA 225**

**Units:** 3.0  
**Hours:** 3-0

**Also: ACAN 225**

**Introduction to the Arts of Canada**

An interdisciplinary examination of Canada's cultural identity and of current issues facing the arts in both French- and English-speaking Canada. Topics to be considered include aboriginal arts, theatre, history in art, visual and literary arts, music, multiculturalism, broadcasting and cultural policies.

**Note:** Credit will be granted for only one of FA 225, ACAN 225.

**FA 245**

**Units:** 1.5 or 3.0  
**Hours:** 3-0

**The Arts and Technology I**

An introductory course focusing on ideas central to the interrelationship between various arts and technologies.

**Note:** May be taken more than once for credit in different topics to a maximum of 3 units.

**FA 300**

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

**Interdisciplinary Studies**

Emphasizes an interdisciplinary approach to contemporary artistic concerns. In each year, coursework will focus on a particular issue.

**Note:** May be taken more than once for credit in different topics with permission of the faculty to a maximum of 3 units.

**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.

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**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.
### FA 346 Units: 1.5 or 3.0 Hours: 3-0
The Arts and Technology II
A practice-oriented seminar, focusing on the use of computer technology in the arts. Areas for consideration may vary from year to year.

**Note:** May be taken more than once for credit in different topics with permission of the faculty to a maximum of 6 units.

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

### FA 356 Units: 1.5 or 3.0 Hours: 3-0
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.

### FA 360 Units: 1.5 or 3.0 Hours: 3-0
Theoretical and Critical Issues in the Arts
A special topics course that examines critical and theoretical issues as they relate to the visual, literary and performing arts. Areas for consideration will vary from year to year.

**Note:** May be taken more than once for credit in different topics to a maximum of 3 units.

### FA 399 Units: 1.5 or 3.0 Hours: 3-0
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.

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### FRAN

#### French

#### Department of French

#### Faculty of Humanities

Note: The departmental language and literature requirements are described here.

### FRAN 100 Units: 3.0 Hours: 6-1
Formerly: FREN 100

**Intensive French I**

Intensive spoken and written French.

**Notes:**
- Credit will be granted for only one of FRAN 100, FREN 100, FREN 102, FREN 103, FREN 105.
- Students must register in one of the lab sections. Intended for beginners. Next course in sequence: FRAN 120.
- Not open to students with French 11 or equivalent in the last three years.
- Not open to students with French 12.

### FRAN 120 Units: 3.0 Hours: 6-1
Formerly: FREN 160, 106, 107

**Intensive French II**

Instruction in written and oral French. Regular oral practice and short written assignments.

**Notes:**
- Credit will be granted for only one of FRAN 120, FREN 106, FREN 107, FREN 160.
- Students must register in one of the lab sections. Normal entry point for students with French 11. Not open to students with French 12 in the last three years, or French Immersion to Grade 7.

**Prerequisite(s):**
- One of FRAN 100, French 11, FREN 100; or
- permission of the department.

### FRAN 150 Units: 1.5 Hours: 3-1
Formerly: FREN 150

**Elementary Oral French**

Develops listening comprehension. Oral expression practiced in lab. Introduces students to varied oral discourses.

**Notes:**
- Credit will be granted for only one of FRAN 150, FREN 150.
- Students must register in one of the lab sections. Intended for students with French 12, FRAN 120 or equivalent. May be taken concurrently with FRAN 160.
- Not open to students with three years of French immersion at any time, francophone students, or students who have spent at least one year in a francophone environment.

**Prerequisite(s):** French 12 or FRAN 120.

**Corequisite(s):** FRAN 160.

### FRAN 160 Units: 1.5 Hours: 3-1
Formerly: part of FREN 155, 181 and 182

**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 to students with FREN 153, 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 Units: 3.0 Hours: 3-3

**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 Units: 1.5 Hours: 3-0

**Introduction to French Linguistics**

The subject matter of linguistics as it relates to the French language. Overview of word and sentence structures and meaning.

**Notes:**
- Credit will be granted for only one of FRAN 200, FREN 202, FREN 204, FREN 208.
- Previous course in sequence: FRAN 180. Next course in sequence: FRAN 275. May be taken concurrently with other 200-level courses including FRAN 275.

**Prerequisite(s):**
- FRAN 180; or
- permission of the department.

### FRAN 220 Units: 1.5 Hours: 3-0

**French Phonetics**

The theory and practice of French pronunciation, corrective phonetics, phonetic transcription, intonation, accentuation, syllabification, elision and liaison; training in reading aloud. Individual practice in the CALL Centre will be assigned. For francophone students, a research paper will be substituted for the oral examination.

**Notes:**
- Credit will be granted for only one of FRAN 220, FREN 220.
- Enrolment limited.

**Prerequisite(s):** One of FRAN 180, FREN 175, FREN 181, FREN 182, FREN 190, FREN 195.

### FRAN 250 Units: 1.5

**Experiential Learning**

The student will present a portfolio, in a form approved in advance, based on the experience of living in a francophone environment for a period of approximately six months.

**Note:** Open only to students who are completing the experience requirement for a degree in French.

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

**Grading:** COM, N, F

### FRAN 265 Units: 1.5 Hours: 3-0
Formerly: 165

**French Connections**

Various aspects of French today as seen through such media as television, comics, song, radio and the Internet.

**Notes:**
- Credit will be granted for only one of FRAN 265, FREN 265.
- Students are expected to have the ability to understand spoken and written French.

### FRAN 275 Units: 1.5 Hours: 3-0
Formerly: part of FREN 292, 295

**Writing in French I**

Practice of writing and reading in a variety of forms and the study of relevant models.

**Note:** Credit will be granted for only one of FRAN 275, FREN 292, FREN 295.

**Pre- or Corequisite(s):** FRAN 200.
FRAN 280 Units: 1.5 Hours: 3-0
**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.
- Not open to students with credit in, or registered in, FRAN 180 or higher.
- Students with previous French should take at least FRAN 100 before undertaking FRAN 300. Credit may be obtained for both FRAN 300 and any other French course.

**Prerequisite(s):**
- Minimum third-year standing or permission of the department.

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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 FRAN 100 before undertaking FRAN 300. Credit may be obtained for both FRAN 300 and any other French course.

**Prerequisite(s):**
- Minimum third-year standing or permission of the department.

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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.

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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.

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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 295; 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.

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FRAN 340 Units: 1.5 Hours: 3-0
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 340, FREN 350.
- Required for a concentration in French in the Faculty of Literature or Language of the French-speaking world.

**Prerequisite(s):**
- FRAN 275 with a minimum grade of C+; and
- permission of the department.

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FRAN 345 Units: 1.5 Hours: 3-0

**Writing in French II**
Written exercises in vocabulary and grammar, comparative stylistics, compositions.

**Notes:**
- Credit will be granted for only one of FRAN 345, FREN 302, or FREN 389.
- Students with the FREN courses are directed to FREN 395 or FREN 400.

**Prerequisite(s):**
- FRAN 275 with a minimum grade of C+; or
- permission of the department.

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FRAN 350 Units: 1.5 Hours: 4-0
Formerly: FREN 350

**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

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FRAN 360 Units: 1.5-3.0

**French Syntax and Semantics**
Verbal and phrase constructions, the question of agreement; shifts in meaning; grammatical exceptions.

**Notes:**
- Credit will be granted for only one of FRAN 360, FREN 374.

**Prerequisite(s):**
- FRAN 275 with a minimum grade of C+; and
- one of FRAN 200, FRAN 220, 1.5 units of 100- or 200-level LING course; or
- permission of the department.

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FRAN 385 Units: 1.5 Hours: 3-0
Formerly: FREN 374

**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

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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.

**Prerequisite(s):** FRAN 275 with a minimum grade of C+.

**Pre- or Corequisite(s):**
- FRAN 310; or
- permission of the department.
### FRAN 400 - Units: 1.5 - Hours: 3-0
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+.
- FRAN 310, or
- 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+.
- FRAN 310, or
- 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+.
- FRAN 310, or
- 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 Garneau, 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+.

**Pre- or Corequisite(s):**
- FRAN 310, or
- permission of the department.

### FRAN 417 - Units: 1.5 - Hours: 3-0
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, Torson Highway and Nicolas Dickner. Students enrolled in FRAN 417 must submit all written assignments in French.

**Note:** Credit will be granted for only one of FRAN 417, FREN 487, ENGL 458.

**Prerequisite(s):**
- FRAN 275 with a minimum grade of C+.

**Pre- or Corequisite(s):**
- FRAN 310, or
- permission of the department.

### FRAN 420 - Units: 1.5 - Hours: 3-0

**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+.

**Pre- or Corequisite(s):**
- FRAN 310, or
- 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+.

**Pre- or Corequisite(s):**
- FRAN 310, or
- permission of the department.
FRAN 423 - FRAN 450

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.

Pre- or Corequisite(s):
• FRAN 275 with a minimum grade of C+.

FRAN 425
Units: 1.5
Hours: 3-0

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.

Pre- or Corequisite(s):
• FRAN 275 with a minimum grade of C+.

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 446B, FREN 446E, FREN 448, FREN 450A, FREN 450B, FREN 451, FREN 452, FREN 455B (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.

Pre- or Corequisite(s):
• FRAN 275 with a minimum grade of C+.

FRAN 431
Units: 1.5
Hours: 3-0

Formerly: FREN 440

Medieval Literature
Study of a number of medieval literary works in the original. Students will acquire some familiarity with medieval French and of the principal literary genres of the period. History and art will be used to give a context to the literary works.

Note: Credit will be granted for only one of FRAN 431, FREN 440, FREN 441.

Pre- or Corequisite(s):
• FRAN 275 with a minimum grade of C+.

FRAN 434
Units: 1.5
Hours: 3-0

Formerly: FREN 444

Medieval and Renaissance Theatre
Medieval and Renaissance plays in the original. Through a selection of dramatic texts, students will explore the conditions of theatrical representations before theatres were built in stone. Farces, miracles, sotties and comedies will be placed in the context of religious holidays, Carnival, or school plays.

Note: Credit will be granted for only one of FRAN 434, FREN 444.

Pre- or Corequisite(s):
• FRAN 275 with a minimum grade of C+.

FRAN 435
Units: 1.5
Hours: 3-0

Formerly: FREN 446A

Representations of 18th-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 446B, FREN 450A, FREN 450B, FREN 452, FREN 455B.
• Students with credit for FREN 446B, 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.

Pre- or Corequisite(s):
• FRAN 275 with a minimum grade of C+.
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.
Prerequisite(s): FRAN 275 with a minimum grade of C+.
Pre-or Corequisite(s):
• FRAN 310; or
• permission of the department.

FRAN 453 Units: 1.5 Hours: 3-0
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.
Prerequisite(s): FRAN 275 with a minimum grade of C+.
Pre-or Corequisite(s):
• FRAN 310; or
• permission of the department.

FRAN 455 Units: 1.5 Hours: 3-0
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 462A (if taken in the same topic), FREN 462B (if taken in the same topic), FREN 462C (if taken in the same topic), FREN 470.
• Students with credit for FREN 462A, FREN 462B, FREN 462C, FREN 470 must consult the department to determine whether they may obtain a waiver to take this course for credit.
Prerequisite(s): FRAN 275 with a minimum grade of C+.
Pre-or Corequisite(s):
• FRAN 310; or
• permission of the department.

FRAN 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.
Prerequisite(s): FRAN 275 with a minimum grade of C+.
Pre-or Corequisite(s):
• FRAN 310; or
• permission of the department.

FRAN 457 Units: 1.5 Hours: 3-0
Breaking New Ground after Existentialism
The various faces of fiction, from the "Nouveau Roman" to postmodernism in French contemporary literature (1945 to today).
Notes:
• Credit will be granted for only one of FRAN 457, FREN 462A, FREN 462B, FREN 462C, FREN 470.
• Students with credit for FREN 462A, FREN 462B, FREN 462C, FREN 470 must consult the department to determine whether they may obtain a waiver to take this course for credit.
Prerequisite(s): FRAN 275 with a minimum grade of C+.
Pre-or Corequisite(s):
• FRAN 310; or
• permission of the department.

FRAN 459 Units: 1.5 Hours: 3-0
Modern French
Detailed study of contemporary French, with particular attention to aspects of the language useful to immersion teachers.
Prerequisite(s): Admission to Professional Specialization Certificate program in Teaching French Immersion.
Grading: COM, N, F

FRAN 460 Units: 1.5 Hours: 3-0
Directed Studies
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
Prerequisite(s): Permission of the department.

FRAN 499 Units: 1.5 Hours: 3-0
Formerly: FREN 499
Honours Graduating Essay
During the final year of the Honours program, students will write a graduating essay in French of approximately 7,500 words (i.e., 30 typed pages, double-spaced) under the direction of a member of the department; the topic to be approved by the Honours Committee. The essay must conform to acceptable standards of style and format and be submitted before the end of second term classes. An oral examination in French covering the topic of the essay will be conducted by a committee of three persons (normally, the faculty supervisor, the second reader, and the departmental Honours Adviser).
Note: Credit will be granted for only one of FRAN 499, FREN 499.

GDS Global Development Studies
Program
Global Development Studies Faculty of Social Sciences

GDS 201 Units: 1.5 Hours: 3-0-1
Introduction to Global Development Studies
An interdisciplinary, introductory approach focusing on theoretical, historical and policy debates shaping international development. The theory and practice of international development in diverse historical, social, cultural and geographic contexts. Topics may also include colonization and decolonization; global poverty and inequality; modernization and social change; and international development assistance and the role of international organizations, NGOs and groups in shaping development.

GDS 202 Units: 1.5 Hours: 3-0
Contemporary Issues in Global Development Studies
Considers contemporary topics and issues, several of which form key areas of focus for contemporary official development assistance: gender, human rights and democracy; environmental sustainability and food security; transnationalism, migration and mobility; identity, ethnicity and cultural change; culture and social change; health and well-being. Other topics may include: conflict and displacement; development policy and poverty reduction; food and agriculture; labour markets and global migration.
Prerequisite(s): GDS 201.

GDS 301 Units: 1.5 Hours: 3-0
Working in Global Development
Essential skills required for effective practical engagement with issues in global development. Topics may include: advocacy; cross-cultural communication; project management and evaluation; community based research; fundraising; community organizing; management of non-profits.
Prerequisite(s):
• GDS 201 and GDS 202; or
• permission of the program.

GDS 390 Units: 1.5 Hours: 3-0
Special Topics in Global Development Studies
Prerequisite(s):
• GDS 201 and GDS 202; or
• permission of the program.
GDS 400
Units: 1.5  Hours: 3-0
Global Development Studies Capstone Seminar
Students conduct interdisciplinary projects linked to global development with attention to research methods in development studies, and to practical and ethical challenges associated with development projects, in a workshop format. In addition to research on an international development issue, projects might include assessment of an existing development project, or developing a monitoring and evaluation framework for a development program.
Prerequisite(s):
• GDS 301; and
• declared minor in Global Development Studies.

GDS 490
Units: 1.5  Hours: 3-0
Directed Studies
Individual study of a specific research topic in Global Development Studies under the supervision of a faculty member.
Note: Students are responsible for finding a faculty member associated with the GDS minor to supervise the proposed project.
Prerequisite(s):
• GDS 201 and GDS 202; and
• fourth-year standing; and
• declared minor in Global Development Studies.

GDS 491
Units: 1.5  Hours: 3-0
Directed Experiential Learning
Individual examination of analytical issues in GDS in relation to work or volunteer activities directly related to global development. Students work with an instructor to identify issues to be explored and methods of assessment before the experiential learning opportunity begins. Must include at least 150 hours of work or volunteer activities. Assessment normally involves a reflective journal and final paper.
Note: Students are responsible for finding the work or volunteer position and a faculty member associated with the GDS minor to supervise the proposed experiential learning opportunity.
Prerequisite(s):
• GDS 201 and GDS 202; and
• minimum third-year standing; and
• declared minor in Global Development Studies.

GEOG
Geography
Department of Geography
Faculty of Social Sciences

GEOG 100
Units: 1.5  Hours: 3-0
Geography for Today
Each topic stretches the geographical imagination by offering a new lens through which to view the relationship between people and the richly diverse and varied environments they inhabit. From the intimate personal places of one individual’s human experience to the worldwide reach of global-scale physical environmental changes that impact everyone, the complex challenges and opportunities of today’s world are illuminated with the help of an integrated spatial perspective. Topic may change from year to year.
Note: May be taken more than once for credit in different topics.

GEOG 101A
Units: 1.5  Hours: 3-2
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 101B
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 103
Units: 1.5  Hours: 3-2
Formerly: Part of 110, 120, EOS 110, 120
Introduction to Physical Geography
Introduces the science of Physical Geography using an earth-systems approach. Course themes include global climates and climate change, hydroscape 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  Hours: 3-2
Formerly: 350, 350A, 350B, ES 316
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.
Note: 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  Hours: 3-2
Formerly: 201A, 201B
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.
Note: 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  Hours: 3-2
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.
Prerequisite(s): GEOG 101B.

GEOG 222
Units: 1.5  Hours: 2-2
Introduction to Maps and GIS
Introduces techniques and fundamentals of spatial data and analysis. Topics include: scale, map interpretation, GPS and Geographic Information Systems.
Prerequisite(s): Minimum second-year standing.

GEOG 226
Units: 1.5  Hours: 2-3
Formerly: 321
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 231.
• See "Credit Limit - Beginning Level Statistics Courses".
Prerequisite(s): Either 3 units of 100- or 200-level GEOG courses, or 3 units of 100- or 200-level EOS courses.

GEOG 228
Units: 1.5  Hours: 2-2
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  Hours: 3-0
Formerly: 352
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.
Note: Credit will be granted for only one of GEOG 252, GEOG 352.
Prerequisite(s): Minimum second-year standing.

GEOG 272
Units: 1.5  Hours: 2-2
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.
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GEOG 327 - GEOG 370

**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, 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  
**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, 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 103, 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**  
**Units:** 1.5  
**Hours:** 3-0  
**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 348; and  
• one of MATH 100, MATH 102, MATH 151, MATH 162.  
**Recommendation(s):** GEOG 274 recommended prior to GEOG 358.

**GEOG 366**  
**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. Involves lectures, seminars, and research projects.  
**Note:** Credit will be granted for only one of GEOG 366, 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 - Water Resources Management
Units: 1.5 Hours: 3-0
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 - Applied Climatology
Units: 1.5 Hours: 2-2
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 - Process Geomorphology
Units: 1.5 Hours: 3-2
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 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 - Geography of Southeast Asia
Units: 1.5 Hours: 3-0
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 382, GEOG 367, GEOG 463A, GEOG 467.
Prerequisite(s): Minimum second-year standing.

GEOG 382 - Physical and Cultural Geography of China
Units: 1.5 Hours: 3-0
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 material 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 382, 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 383 - Geography of a Selected Region of the World
Units: 1.5 Hours: 3-2
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.
Note: Students should be prepared to undertake one or more weekend field trips; a fee for each field trip may be applied.
Prerequisite(s):
- GEOG 319, and GEOG 328 or GEOG 329.
Recommendation(s): GEOG 328 and GEOG 329 recommended prior to GEOG 418.

GEOG 384 - Space and Power
Units: 1.5 Hours: 3-0
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, governmental 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.

GEOG 385 - Sustainable Cities
Units: 1.5 Hours: 3-0
Explores the opportunities and challenges of planning ecologically, socially and environmentally just cities.
Prerequisite(s): One of GEOG 332, GEOG 340, GEOG 343.

GEOG 386 - Contemporary Geopolitics
Units: 1.5 Hours: 3-0
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 348.
Prerequisite(s): Minimum second-year standing.

GEOG 388 - Regional Studies
Units: 1.5 Hours: 3-0
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.
Note:
- 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 - Topics in Geography
Units: 1.5 Hours: 3-0
Examination of a specific topic or area in Geography. Topic(s) will be provided in advance of registration.
Note: Contact hours may vary depending on the topic.
Prerequisite(s):
- Minimum second-year standing; and
- additional prerequisites set by department depending upon topic.

GEOG 394 - Field Studies in Coastal Geomorphology
Units: 1.5 Hours: 3-0
An integrated approach for using geomatics (remote sensing, GIS, spatial analysis) for data acquisition, processing and analysis to improve our understanding of marine and coastal areas. Topics focus on applications of geomatics for environmental and social lab work and seminar discussions. Students should be prepared to undertake one or more weekend field trips; a fee for each field trip may be applied.
Prerequisite(s):
- GEOG 319, and GEOG 328 or GEOG 329.
Recommendation(s): GEOG 328 and GEOG 329 recommended prior to GEOG 420.

GEOG 400 - Advanced Spatial Analysis and Geo-statistics
Units: 1.5 Hours: 2-3
Explores advanced topics in the numerical analysis of points, lines, areas, and surfaces in discrete and continuous space, drawing on methodologies from geostatistics, spatial analysis, regional sciences and landscape ecology. Includes coverage of spatial systems modelling and simulation, spatio-temporal analysis, exploratory spatial analysis and spatial data mining.
Prerequisite(s): GEOG 328 or GEOG 329.
Recommendation(s): GEOG 328 and GEOG 329 recommended prior to GEOG 418.

GEOG 404 - Field Studies in Coastal Geomorphology
Units: 1.5 Hours: 3-0
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.

GEOG 407 - Activism and Community-Based Planning
Units: 1.5 Hours: 3-0
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.

GEOG 418 - Advanced Spatial Analysis and Geo-statistics
Units: 1.5 Hours: 2-3
Explores advanced topics in the numerical analysis of points, lines, areas, and surfaces in discrete and continuous space, drawing on methodologies from geostatistics, spatial analysis, regional sciences and landscape ecology. Includes coverage of spatial systems modelling and simulation, spatio-temporal analysis, exploratory spatial analysis and spatial data mining.
Prerequisite(s): GEOG 328 or GEOG 329.
Recommendation(s): GEOG 328 and GEOG 329 recommended prior to GEOG 418.

GEOG 420 - Field Studies in Coastal Geomorphology
Units: 1.5 Hours: 3-0
An integrated approach for using geomatics (remote sensing, GIS, spatial analysis) for data acquisition, processing and analysis to improve our understanding of marine and coastal areas. Topics focus on applications of geomatics for environmental and social lab work and seminar discussions. Students should be prepared to undertake one or more weekend field trips; a fee for each field trip may be applied.
Prerequisite(s):
- GEOG 319; and
- GEOG 328 or GEOG 329.
Recommendation(s): GEOG 328 and GEOG 329 recommended prior to GEOG 420.

GEOG 422 - Advanced Topics in Remote Sensing
Units: 1.5 Hours: 2-3
Aspects of remote sensing including processing and classification of digital satellite and airborne data and digital elevation modelling. Emphasis on the processes of interpreting remotely sensed data, the enhancement of digital data for visual analysis and the integration of remotely sensed data with other spatial data.
Prerequisite(s): GEOG 319 or GEOG 322.
Recommendation(s): GEOG 319 and GEOG 322 recommended prior to GEOG 422.

GEOG 424 - Field Studies in Coastal Geomorphology
Units: 1.5 Hours: 3-0
An advanced, field-based exploration of coastal geomorphic processes and landforms. Involves a week-long field trip to local coastal sites where students apply geomorphic concepts and methods towards a series of independent research assignments and/or group projects. Areas of investigation will span nearshore to backshore environments and wave, tidal, fluvial/estuarine, and aeolian processes. A field trip fee may be applied.
Note: Permission of the department must be acquired by 15 March of previous Winter Session.
Prerequisite(s):
- GEOG 376; and
- permission of the department.
Recommendation(s): GEOG 352 recommended prior to GEOG 424.
GEOG 428 Units: 1.5 Hours: 2-3
Advanced Topics in Geographic Information Sciences
Contemporary research topics in the geographic information sciences. Topic varies annually, but will be selected from one of the following: spatial decision support, visualization, business demographics, environmental modeling, or spatial analysis.
Note: Credit will be granted for only one of GEOG 428, GEOG 429.
Prerequisite(s): GEOG 328 or GEOG 329.
Recommendation(s): GEOG 328 and GEOG 329 recommended prior to GEOG 428.

GEOG 438 Units: 1.5 Hours: 3-0
Aquaculture in British Columbia
Introduction to the aquaculture industry within British Columbia, reviewing the history, culture species, production methods (hatchery through seafood processing), technological innovations, economics, marketing, environmental impacts, management, social issues (including First Nations), and the regulatory framework for this agri-food industry. Includes a field trip to aquaculture sites. Students should be prepared to undertake one or more weekend field trips, or a week-long field trip, a fee for each field trip may be applied.
Prerequisite(s): GEOG 304 or GEOG 353.

GEOG 448 Units: 1.5 Hours: 3-0
Urban Social Geographies
An advanced seminar on the social geographies of the contemporary city. A critical examination of the geographical dimensions of urban social life and the politics of public space. Students will collect and analyze primary-source data for a collective class research project on a particular aspect of the social geography of the Greater Victoria Region.
Prerequisite(s): One of GEOG 332, GEOG 340, GEOG 340A, GEOG 340B, GEOG 343, GEOG 363.

GEOG 450 Units: 1.5 Hours: 3-0
Formerly: 450A and 450B
Environment and Sustainability in Practice
Examines the decision making theory and real world processes associated with resources management at the policy and field levels. Case studies used to illustrate decision making behaviour, from conflict to co-operation. Simulation sessions, field trip and field methods review.
Note: Credit will be granted for only one of GEOG 450, GEOG 450A.
Prerequisite(s): Two of GEOG 301, GEOG 303, GEOG 304, GEOG 314, GEOG 339, GEOG 353, GEOG 357, GEOG 358, GEOG 371.

GEOG 453 Units: 1.5 Hours: 3-0
Field Studies in Coastal and Marine Resources
Integrated coastal management is applied through community-based research. Based on a week-long field camp, discussions, projects and presentations, students gain first-hand experience in both biophysical and socio-economic perspectives of coastal areas. A field trip fee may be applied.
Prerequisite(s): GEOG 353 or GEOG 452.

GEOG 456 Units: 1.5 Hours: 3-0
Formerly: 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.
Prerequisite(s): One of GEOG 338, ES 320, BIOL 370.

GEOG 457 Units: 1.5 Hours: 3-0
Formerly: 455; 459A and 459B
Marine Protected Areas
An in-depth look at the challenges facing designation and management of marine protected areas in Canada and internationally. Includes topics such as network design, governance, zoning, conflicts, ecotourism and fisheries. Students should be prepared to undertake one or more field trips; a fee for each field trip may be applied.
Note: Credit will be granted for only one of GEOG 457, GEOG 455, GEOG 459A, GEOG 459B.
Prerequisite(s): GEOG 357.
Recommendation(s): GEOG 252 and GEOG 304 recommended prior to GEOG 457.

GEOG 474 Units: 1.5 Hours: 3-0
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): GEOG 358, GEOG 370, GEOG 373, GEOG 376; and permission of the department.

GEOG 484 Units: 1.5 Hours: 3-0
Advanced Studies in Weather and Climate
Detailed examination of atmospheric structures and processes underlying weather and climate. Practical work focuses on analysis of vertical stability and utilizing computer weather model data.
Prerequisite(s): GEOG 373.

GEOG 487 Units: 1.5 Hours: 3-0
Advanced Landscape Ecology
Explores current theory, concepts, methods, and applications of landscape ecology for both natural and managed landscapes. Topics may include relationship of landscape ecology to ecological theory, models of metapopulations, landscape structure and animal movement and predator-prey interactions. Applications including forestry, parks and protected areas, and wildlife management. Some years the course will be taught as a field course.
Prerequisite(s): GEOG 358.

GEOG 490 Units: 1.5 or 3.0
Directed Studies in Geography
In special cases, with the consent of the department and the individual instructor concerned, a student may be permitted to pursue a course of directed studies.
Note: Courses of 1.5 or 3 units may be arranged, but no student is permitted to take more than 3 units of directed studies.
Prerequisite(s):
• Minimum fourth-year standing, and permission of the department.

GEOG 491 Units: 1.5 Hours: 3-0*
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.
GMST

Germanic Studies

Department of Germanic and Slavic Studies

Faculty of Humanities

GMST 100  Units: 1.5  Hours: 3-0
Introduction to Germanic 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
Formerly: GER 100A
Beginning German I

Introduction for students with no previous knowledge of German. Facilitates learning and retention of vocabulary, effective communication in everyday interaction and the use of fundamental structures of grammar. Acquisition of a basic understanding of German and ability to read, write, speak and comprehend German at the beginner's level. Provides an introduction to the culture of German-speaking countries.

Note: Credit will be granted for only one of GMST 101, GER 100A.

Prerequisite(s):
• GEEO 499A, GER 499B.

GMST 102  Units: 1.5  Hours: 3-0
Formerly: GER 100B
Beginning German II

For students with limited previous knowledge of German who wish to acquire a better command of the spoken and written language, learn about German-speaking culture and acquire more advanced skills in daily interactions. Acquisition of a basic understanding of German and ability to read, write, speak and comprehend German at the advanced beginner's level.

Note: Credit will be granted for only one of GMST 102, GER 100B.

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 261, GMST 252; or

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 gothic tales, the fairy tales of the Brothers Grimm and contemporary fantasy fiction and their adaptations in opera and film. Topics include the heroic quest, the fantastic and sorcery and witches. Emphasis on the mythical narrative structure and on the cultural significance of specific myths and tales.

Note: No knowledge of German required.

GMST 201  Units: 1.5  Hours: 3-0
Formerly: GER 200
Intermediate German I

Grammatical features and vocabulary and how to use them in sentences and texts. Further insights into the culture of German-speaking countries. Acquisition of an understanding of German that enables reading, writing, speaking and comprehension of German at the intermediate level.

Note: Credit will be granted for only one of GMST 201, GER 149, GER 200.

Prerequisite(s):
• One of GMST 102, GER 100, GER 100B; or
• permission of the department.

GMST 202  Units: 1.5  Hours: 3-0
Formerly: GER 252
Intermediate German II

grammatical features and vocabulary and how to use them in sentences and texts. Exploration of the culture of German-speaking countries. Acquisition of an understanding of German that enables reading, writing, speaking and comprehension of German at the advanced intermediate level.

Note: Credit will be granted for only one of GMST 202, GER 252.

Prerequisite(s):
• GMST 201 or GER 200; or
• permission of the department.

GMST 210  Units: 1.5  Hours: 3-0
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
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 - GMST 450

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, GER 356.
• May count toward a Minor in Film Studies.
No knowledge of German required.

GMST 351  Units: 1.5  Hours: 3-0
Formerly: GER 439
The New German Cinema
Notes:
• Credit will be granted for only one of GMST 351, GER 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: GER 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: GER 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, GER 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, GER 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, Parzival, 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.

GMST 401  Units: 1.5  Hours: 3-0
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 terms of 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.
Prerequisite(s):
• GMST 302 or GER 252; or
• permission of the department.

GMST 402  Units: 1.5  Hours: 3-0
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.
Prerequisite(s):
• GMST 202 or GER 252; or
• permission of the department.

GMST 405  Units: 1.5  Hours: 3-0
Formerly: GER 390
Reading, Grammar and Translation
Focus on comprehension with an emphasis on developing passive language skills such as reading and translating texts from German to a target language. Comprehensive introductory overview of grammatical structures underlying German language.
Notes:
• Credit will be granted for only one of GMST 405, GMST 101 (if taken prior to May 2015), GMST 102 (if taken prior to May 2015), GMST 105 (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 German Studies.
Online delivery.

GMST 410  Units: 1.5  Hours: 3-0
Formerly: GER 438A
Special Topics
Notes:
• Credit will be granted for only one of GMST 410, GERS 438A, GERS 438B (if taken in the same topic).

GMST 450  Units: 1.5  Hours: 3-0
Formerly: GER 437
Major Filmmakers
A study of the films of one or more major filmmakers from a German-speaking country, whose impact on cinema as an art form has been wide-ranging and international in scope.
Notes:
• Credit will be granted for only one of GMST 450, GERS 437 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.
• No knowledge of German required.
May count towards a Minor in Film Studies.
GMST 452 Units: 1.5 Hours: 3-0
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.
GMST 455 Units: 1.5 Hours: 3-0
German Visual Culture
A study of the rich literary and cultural diversity of the period from the 1750s to the 1830s. Examines major works by Goethe, Schiller and the Romantics, the rise of women’s literature and the notion of the dilettante author, the salon culture of Weimar and Berlin and hybrid genres such as the diary, the letter, and the fragment.
Note: No knowledge of German required.

GMST 454 Units: 1.5 Hours: 3-0
Formerly: GERS 487
A Cultural History of Vampires in Literature and Film
A study of literary and cinematic vampires in historical context. Without focusing exclusively on German literature and film, follows the vampire myth and its various guises from classicism to postmodernism in novels and films.
Notes:
• Credit will be granted for only one of GMST 454, GERS 487.
• May count towards a Major in Film Studies.

GMST 465 Units: 1.5 Hours: 3-0
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 Ereznsberger.
Note: Credit will be granted for only one of GMST 465, GMST 410 (if taken as section A01 in Sep-Dec 2015).

GMST 461 Units: 1.5 Hours: 3-0
Metropolis Berlin
A multi-media investigation into how the cultural and artistic landscape of the capital Berlin is represented in and through the literature and film from the 19th to the 21st century.
Note: No knowledge of German required.

GMST 460 Units: 1.5 Hours: 3-0
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.

GMST 445 - GNDR 100
471
GMST 449 - GNDR 100
**GNDR 200 - GNDR 300**

**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 GNDR 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’, ‘exotic’, ‘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 impenal 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 209**  
Units: 1.5  
Hours: 3-0  
Formerly: GNDR 303, WS 312A  
**Families, Intimacies and Nationhood**  
Through the lens of families and intimacies, examines the politics of gender, race, class and sexuality in the nation building of Canada. Investigates family, relationships, and nation making in the context of policies governing colonialism, citizenship, parenthood, cohabitation, marriage, divorce, custody and state benefits. Maps transformations of intimacy that have evolved as a result of and in spite of state-sanctioned policies.  
*Note:* Credit will be granted for only one of GNDR 209, GNDR 303, WS 312A, WS 329 (if taken in the same topic).  
**Recommendation(s):** GNDR 100 recommended prior to GNDR 209.

**GNDR 210**  
Units: 1.5  
Hours: 3-0  
**The Zombie in Popular Culture**  
Surveys the zombie in popular film, television and other cultural productions. Critically analyzes the zombie at the intersection of race, class, gender, sexuality, nation and the posthuman.  
**Recommendation(s):** GNDR 100 recommended prior to GNDR 210.

**GNDR 219**  
Units: 1.5  
Hours: 3-0  
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.
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.

**Prerequisite(s):**
- Minimum second-year standing;
- or permission of the department.

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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.

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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.

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Imagines 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.

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**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 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 warrorship.
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 Feminisms through 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.

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 underlying feminism and feminist anti-racist discourses. Analyzes western feminism as theory and practice by situating it within a global and historical context. Beginning with an analysis of whiteness, binaries, colonialisms and orientalisms, challenges students to consider the theory and practice needed for a feminist, anti-racist reimaging of democracy and democratic futures.
Note: Credit will be granted for only one of GNDR 333, WS 331, 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 postmodem 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.

Recommendation(s): GNDR 332 recommended prior to GNDR 333.
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: decolonizing the screen; identity, community and representation; the ethics or image-making; Indigenous women’s filmmaking; Indigenous filmmaking as both an art form and a tool for social change. Examines the development of Indigenous cinema in Canada with special emphasis on documentaries, and looks at new directions in Indigenous cinema including experimental works and drama.  
Note: Credit will be granted for only one of GNDR 340, WS 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 autobiography 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 349  
Units: 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; 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 Practice”.  
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.

GS 349  
Units: 3.0  
Hours: 3-0  
Formerly: WS 349  
**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):  
• May be taken more than once for credit in different topics with 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.

GREE 101  
Units: 1.5  
Hours: 4-0  
**Introductory Ancient Greek I**  
Basic introduction to ancient Attic Greek. Based on reading and translating progressively more challenging passages in ancient Greek, with emphasis on acquiring basic vocabulary and rules of grammar.  
Note: Credit will be granted for only one of GREE 101, GREE 100.
GREE 102 Units: 1.5 Hours: 4-0

Introductory Ancient Greek II
Continuation of 101. Reading and translation of progressively more challenging passages in ancient Greek, with emphasis on acquiring basic vocabulary and rules of grammar.

Note: Credit will be granted for only one of GREE 102, GREE 200.

Prerequisite(s): GREE 101.

GREE 201 Units: 1.5 Hours: 4-0

Advanced Greek Grammar
Review of grammar covered in 101 and 102, followed by study of more advanced grammatical constructions. Readings will provide a transition from simplified language to unmodified literary Greek.

Note: Credit will be granted for only one of GREE 201, GREE 202.

Prerequisite(s):
•  GREE 101; or
•  permission of the department.

GREE 202 Units: 1.5 Hours: 4-0

Introduction to Greek Literature
Includes select, elementary passages from a variety of major classical authors such as Homer, Herodotus, Sophocles, Euripides and Xenophon in combination with a review of grammar.

Note: Credit will be granted for only one of GREE 202, GREE 204.

Prerequisite(s):
•  GREE 201; or
•  permission of the department.

GREE 203 Units: 1.5 Hours: 3-0

Greek Epic
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 390A, GREE 401 (if taken in the same topic).
•  May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s):
•  GREE 202; or
•  permission of the department.

GREE 204 Units: 1.5 Hours: 3-0

Greek Tragedy
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 390B, GREE 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):
•  GREE 202; or
•  permission of the department.

GREE 205 Units: 1.5 Hours: 3-0

Greek Historians
Selected readings from the Greek historians, particularly Herodotus, Thucydides and Xenophon.

Notes:
•  Credit will be granted for only one of GREE 303, GREE 390C, GREE 404 (if taken in the same topic).
•  May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s):
•  GREE 202; or
•  permission of the department.

GREE 206 Units: 1.5 Hours: 3-0

Greek Orators
Readings from select orators of the fifth and fourth centuries BC. Selections may include Antiphanes, Lysias, Isocrates and Demosthenes.

Notes:
•  Credit will be granted for only one of GREE 305, GREE 405, GREE 490E (if taken in the same topic).
•  May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s):
•  GREE 202; or
•  permission of the department.

GREE 207 Units: 1.5 Hours: 3-0

Greek Comedy
Examination of the Greek comic tradition through selected readings of the plays of Aristophanes and/or Menander.

Notes:
•  Credit will be granted for only one of GREE 306, GREE 408 (if taken in the same topic).
•  May be taken more than once for credit in different topics with permission of the department.

Prerequisite(s):
•  GREE 202; or
•  permission of the department.
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 periods 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
Formerly: 382
The Ancient World on Film
Explores the treatment in film of the history and myth of the world of the ancient Mediterranean. Both films and original sources are studied. Issues addressed include medium, genre and the mutability of myth and historical representation.
Note: Credit will be granted for only one of GRS 204, GRS 382.

GRS 250  Units: 1.5  Hours: 3-0
Greek and Latin Roots of English
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 no knowledge of Greek and Latin.

GRS 300  Units: 1.5  Hours: 3-0
Heroes and Heroines in Action in Ancient Greek Epics
An examination of epic genre in Greek literature through reading Homer’s Iliad and Odyssey and Apollonius’ Jason and the Argonauts. Themes may include the definition of the genre of epic, the nature of heroism, mortality and the construction of gender.
Note: Credit will be granted for only one of GRS 300, CLAS 300.
Prerequisite(s):
• One of GRS 100, GRS 101, GRS 200; or
• permission of the department.

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
Heroes and Heroines in Action in Ancient Greek Epics
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 322  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 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 322.

GRS 325A  Units: 1.5  Hours: 3-0
Topics in Greek Literature
Formerly part of 325
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 to a maximum of 3 units.

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 to a maximum of 3 units.

GRS 326  Units: 1.5  Hours: 3-0
Formerly: GRS 326A, GRS 326B, CLAS 326
Topics in Greek and Roman Civilization
Notes:
• Credit will be granted for only one of GRS 326, GRS 326A (if taken in the same topic), GRS 326B (if taken in the same topic), CLAS 326 (if taken in the same topic).
• May be taken more than once for credit in different topics to a maximum of 6 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 architecture 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 202, 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 revolts 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 201, 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.

GRS 371  Units: 1.5  Hours: 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  Units: 1.5  Hours: 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 reliefs, function in art and architectural space and city planning.
Note: Credit will be granted for only one of GRS 372, AHVS 317, CLAS 372, HA 317.
Recommendation(s): One of GRS 203, GRS 348, GRS 371 recommended prior to GRS 372.

GRS 374  Units: 1.5  Hours: 3-0
Pompeii and Herculanenum
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  Units: 1.5  Hours: 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  Units: 1.5  Hours: 3-0
Ships and Seafarers in the Ancient World
Introduction to the maritime archaeology and marine technology of the Bronze Age Near Eastern, Greek and Roman cultures, using the evidence presented by archaeological remains of ships and harbours, and ancient visual representations and literary texts. Topics include harbour and ship design and construction, equipment, sailing techniques, navigation and underwater archaeology.
Recommendation(s): One of GRS 203, GRS 371, GRS 372 recommended prior to GRS 377.
**GRS 379**  
Units: 1.5  
Hours: 3-0  
Also: PHIL 379  
Formerly: PHIL 381  
**Early Greek Thought**  
Examination of early Greek thought as embodied in Hesiod and Presocratic philosophers 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**  
Units: 1.5  
Hours: 3-0  
Also: PHIL 383  
**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 Sophist concept of philosophy and its relation to the methods of the Sophists; perceived Socratic challenges to religious and social mores; written vs. unwritten philosophy; types of Socratic literature.  
Note: Credit will be granted for only one of GRS 380, CLAS 380, PHIL 383.  
Recommendation(s): Minimum third-year standing recommended.

**GRS 381**  
Units: 1.5  
Hours: 3-0  
**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**  
Units: 3.0  
Hours: 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**  
Units: 1.5  
Hours: 3-0  
**The Ancient Economy**  
Examines of 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**  
Units: 1.5  
Hours: 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**  
Units: 1.5  
Hours: 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**  
Units: 1.5  
Hours: 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 373, GRS 361, GRS 371, GRS 395; or  
- permission of the department.

**GRS 462**  
Units: 1.5  
Hours: 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.
HDCC 300 Units: 1.5 Hours: 3-0
Climate Change for Social Transformation
An opportunity for critical engagement with climate change as a physical phenomenon, 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 Units: 1.5 Hours: 3-2
Programming for Healthcare
Computer programming for healthcare information technology and systems development will be covered. Topics include languages for scripting, programming, and data exchange and visualization in healthcare information systems. Examples and techniques tailored to healthcare applications will be emphasized, such as programming for health decision support, electronic health records and mobile health applications. Open source system programming and prototyping for healthcare will also be covered.
Note: Students not Majoring in Health Information Science may request permission to register in the course.
Prerequisite(s):
- CSC 110; and
- admission to BSc program in Health Information Science; or
- permission of the school.
HINF 201 - Database Management and Development for Health Care Systems

Provides students with hands-on lab experience with SQL and a sophisticated, full-scale multi-platform database management system such as Oracle. Using a set of accompanying tools, students 1) explore the architecture of a database management system, 2) design a database, 3) implement a database, 4) maintain and administer a database, 5) manage application security and 6) develop prototypes of database applications. Students are able to transfer this experience to other database management systems.

Note: Credit will be granted for only one of HINF 201, HINF 301.

Prerequisite(s):
- One of HINF 200, HINF 300, CSC 370; or
- permission of the school.

HINF 230 - 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 - 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 - Biomedical Informatics

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 - 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 - 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.

Pre- or Corequisite(s): HINF 140 and HINF 230.

HINF 330 - 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 487.

HINF 335 - 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-CDAD, 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 - 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 - 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.

HINF 351 - Information Technology Procurement

Investigation of the methodologies and processes used to select Information Technology (IT), for health care organizations and governments. The primary goal is to appreciate the dynamics and compromises that take place, particularly when health organizations and governments procure IT to support patients and the public. Students will be encouraged to think from a clinical point of view, as well as a technical and management perspective.

Note: Credit will be granted for only one of HINF 351, HINF 451.

HINF 371 - Clinical Methodologies

The process of clinical decision making in diagnosis, treatment, planning and prognosis will be covered. Topics may include: use of electronic systems in improving the clinical decision making process such as preventing diagnostic errors, integrating evidence based medicine and clinical guidelines, and improving team-based decision-making. Factors affecting policy-level decision making and its relationship with the information systems are explored.

Note: Credit will be granted for only one of HINF 371, HINF 270.

Prerequisite(s): HINF 280.

HINF 381 - Epidemiology, Population Health and Public Health

An introduction to the principles and methods of epidemiology particularly as they apply to population health. Topics may include: measurements of disease occurrence, study designs (cohort, case-control, randomized clinical trials), surveillance systems, population health, public health information systems for infectious and chronic diseases, health promotion and disease prevention issues.

Note: Credit will be granted for only one of HINF 381, HINF 380.

Prerequisite(s): 1.5 units of STAT courses.

HINF 410 - Information Management and Technology

Critically examines the application of state-of-the-art IM&T principles and methods in the public and private sectors and the degree to which they apply to Canadian health care organizations. Provides students with a background in health information management and information technology (IT) strategy from a private and public sector organizational perspective. Students will identify strategies and approaches to ensuring managers, clinicians, patients and the public receive information at the right time in a cost-effective manner.

Prerequisite(s): HINF 310 and HINF 351.
HINF 420 - HLTH 360

HINF 420  Units: 1.5  Hours: 3-0  Societal Implications of Information Technology
Reflects on the societal and ethical implications of health information technologies (IT). Provides an examination of some of the systemic and societal issues related to the IT revolution. Examines how IT has affected, and will continue to affect, the human condition as seen from individual and community perspectives. The goal is to achieve a balanced understanding of how IT affects the human condition - as seen from individual, regional and global perspectives. Only open to fourth-year HINF students.
Prerequisite(s): All of HINF 001, HINF 002, HINF 310, HINF 320, HINF 371.

HINF 450  Units: 1.5  Hours: 3-2  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.

HINF 461  Units: 1.5  Hours: 3-0  System Evaluation and Quality Improvement
Examination of key concepts, methods, and approaches in the field of evaluation. Topics may include: formative and summative evaluation, quantitative and qualitative methods, developing performance metrics, total quality management (TQM), core principles of clinical quality improvement (CQI), balanced scorecards and dashboards.
Note: Credit will be granted for only one of HINF 461, HINF 460.
Prerequisite(s): HINF 381.

HINF 470  Units: 1.5  Hours: 3-0  Trends in Health Informatics
Exposes students to the changing topics in health informatics and the emerging trends in health information technology. Topics may include: electronic health records, consumer health informatics, personalized health records, mobile technology, telemedicine, bioinformatics, precision medicine, business intelligence and big data. Students have the chance to review current published work and speak to experts in the field. Culminates with a capstone project.
Prerequisite(s): HINF 115 or CSC 115.

HINF 490  Units: 1.5 or 3.0  Directed Study
Students wishing to pursue a course of directed readings or of a directed project should consult with a faculty member willing to supervise such a course, formulate a proposal describing both the content of the course and a suitable means of evaluating the student's work.
Note: May be taken more than once for credit in different topics to a maximum of 3 units.

HINF 491  Units: 1.5 or 3.0  Hours: 3-0 or

HLTH

HLTH 250  Units: 1.5  Current Issues in Health and Community Services
Explores major contemporary issues in Canadian health and social services delivery, using a life course and social determinants perspective. Students will be introduced to a variety of issues in health care and social services, and develop an understanding of different perspectives on complex social issues that are addressed through our health, social and other public and private service delivery systems.
Note: Credit will be granted for only one of HLTH 250, HLTH 480 (if taken in the same topic).

HLTH 251  Units: 1.5  Healthy Sexuality
Human sexuality is a multi-faceted concept, influenced by biological, cultural, environmental, historical, psychological, and societal contexts. Students will explore the dynamic role sexuality plays in human experience and the mechanisms by which individuals can achieve healthy sexuality. Course readings, assignments and class activities will encourage students to explore the complexities of human sexuality from a number of perspectives.
Note: Credit will be granted for only one of HLTH 251, HSD 460 (if taken in the same topic).

HLTH 300  Units: 1.5  Determinants of Health and Population Health Promotion
Begins with conceptualizations of health, starting with individual constructions and moving toward a complex integrated understanding of health as a social and cultural construct. Understanding the broad determinants of health includes a critical examination of inequalities in health. A range of population health promotion interventions is explored, from healthy public policy to the re-orientation of the health care system.

HLTH 301  Units: 1.5  Evolution of Health and Community Services
Focuses on the history and context of health systems. Students critically examine the Canadian health care system, with some comparative analysis from international and global contexts. The policy context in the evolution of the health care system is examined in the context of health and community. The current system of care is explored including an examination of various aspects of care (e.g. acute, primary, public, private, non-governmental).

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 services to promote and support healthy sexualities.
Prerequisite(s): HLTH 251.

HLTH 360  Units: 1.5  Formerly part of 322
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.

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 400A - Units: 1.5
Directed Experiential Learning in Health and Society: Research
A capstone course providing the opportunity for students to obtain direct experience in the process of doing health research. This investigation will be a culminating examination of a topic selected by the student that fits within one of five health-related focus areas including Aboriginal health, addictions & mental health, aging, disability, and children and youth. Students are responsible for identifying a supervisor and getting approval from the program director.
Prerequisite(s):
- HS 200; and
- declared General or Minor program in Health and Society.

HS 400B - Units: 1.5
Directed Experiential Learning in Health and Society: Community Service
A capstone course providing the opportunity for students to obtain direct experience being involved in community based health-sector activities; for example, volunteering at a homeless shelter or working with people with disabilities. Students are responsible for proposing a community placement, and getting approval from the program director.
Prerequisite(s):
- HS 200; and
- declared General or Minor program in Health and Society.

HSD 390 - Units: 1.5 or 3.0
Directed Studies
Individual studies involving directed readings, projects, or special studies under the direction of a faculty member. A proposal is developed in consultation with a faculty member and includes a plan for the evaluation of the student’s work. The proposal must be approved by the Dean before students are allowed to register.
Notes:
- May be taken more than once for credit in different topics.
- Offered as resources permit.
HSD 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.

HSD 401 Units: 1.5 Hours: 3-0
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.
Note: Course is not currently offered.

HSD 425 Units: 1.5 Qualitative and Quantitative Analysis
Provides students with a grounding in the techniques commonly used in the analysis of both qualitative and quantitative 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.
Notes:
- Credit will be granted for only one of HSD 425, NURS 425.
- Course is not currently offered.
- All students must have basic computing and word processing skills prior to enrolling in the course. Students taking the course off-campus must have access to a computer with a CD-ROM.
Prerequisite(s):
- One of admission to a program in Child and Youth Care, admission to a program in Nursing, admission to a program in Social Work, or permission of the department.

HSD 450 Units: 1.5 Hours: 3-0
Special Topics in Human and Social Development
A variable content course which will focus on current and emerging issues in the human services. Examples of appropriate content include the prevention and treatment of alcohol and drug abuse and cross-cultural issues in the human services.
Notes:
- May be taken more than once for credit in different topics to a maximum of 3 credits.
- Offered as resources permit.
Prerequisite(s):
- Minimum third-year standing and admission to a program in Human and Social Development.

HSD 464 Units: 1.5 Hours: 3-0
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.

HSD 470 Units: 1.5 Hours: 3-0
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.
Notes:
- Credit will be granted for only one of HSD 470, CYC 379.
- Offered as resources permit.

HSD 490 Units: 1.5 or 3.0
Directed Studies
Individual studies involving directed readings, projects, or special studies under the direction of a faculty member. A proposal is developed in consultation with a faculty member and includes a plan for the evaluation of the student’s work. The proposal must be approved by the Dean before students are allowed to register.
Notes:
- May be taken more than once for credit in different topics.
- Offered as resources permit.

HSTR 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.

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).
AGE OF ENCOUNTERS IN THE PACIFIC WORLD, 1700-1900

Recommendation(s):
- 206, HIST 265 (if taken in the same topic).

Note:
- Advanced courses in twentieth century history and HIST 105, HIST 105A, HIST 242.
- Economic crises of the early twentieth century and the rise of major states within the Third World, as well as on growing interdependence among states.

HIST 110 - HIST 220A

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COURSE LISTINGS HSTR

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 Amerindian cultures, and the exchange of goods, ideas and peoples across the Western hemispheres.

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-presents
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.

Note:
- 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, HIST 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.

Note: Credit will be granted for only one of HSTR 200, HIST 265 (if taken in the same topic).

Recommendation(s): HSTR 210A recommended prior to HSTR 210B.
<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td><strong>HSTR 220B</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>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. <strong>Note:</strong> Credit will be granted for only one of HSTR 220B, HIST 120, HIST 120B.</td>
</tr>
<tr>
<td><strong>HSTR 230A</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>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. <strong>Note:</strong> Credit will be granted for only one of HSTR 230A, HIST 130, HIST 131, HIST 230, HIST 231.</td>
</tr>
<tr>
<td><strong>HSTR 230B</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>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. <strong>Note:</strong> Credit will be granted for only one of HSTR 230B, HIST 130, HIST 132, HIST 232.</td>
</tr>
<tr>
<td><strong>HSTR 236</strong></td>
<td>3.0</td>
<td>3-0</td>
<td>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. <strong>Note:</strong> Credit will be granted for only one of HSTR 236, HIST 236A, HIST 236B, HIST 236. <strong>Recommendation(s):</strong> Recommended for students wishing to take advanced courses in Medieval history.</td>
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<tr>
<td><strong>HSTR 236A</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: part of 236, part of HIST 236 The Creation of the Medieval World The development of Europe from Late Antiquity through the achievements of the Carolingian world. The first seven centuries. <strong>Note:</strong> Credit will be granted for only one of HSTR 236A, HIST 236, HIST 236. <strong>Recommendation(s):</strong> Recommended for students wishing to take advanced courses in Medieval history.</td>
</tr>
<tr>
<td><strong>HSTR 236B</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>The European Middle Age The development of Europe from feudal society through the breakdown of the medieval world view. The last five centuries. <strong>Note:</strong> Credit will be granted for only one of HSTR 236B, HIST 236, HIST 236. <strong>Recommendation(s):</strong> Recommended for students wishing to take advanced courses in Medieval history.</td>
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<tr>
<td><strong>HSTR 240</strong></td>
<td>3.0</td>
<td>3-0</td>
<td>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. <strong>Note:</strong> Credit will be granted for only one of HSTR 240, HIST 140, HIST 140A, HIST 140B, HIST 240. <strong>Recommendation(s):</strong> HSTR 240, or 240A and HSTR 240B recommended for students wishing to take advanced courses in European History.</td>
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<tr>
<td><strong>HSTR 240A</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>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. <strong>Note:</strong> Credit will be granted for only one of HSTR 240A, HIST 140, HIST 140A, HIST 240. <strong>Recommendation(s):</strong> HSTR 240, or 240A and HSTR 240B recommended for students wishing to take advanced courses in European History.</td>
</tr>
<tr>
<td><strong>HSTR 240B</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>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 impenetrable causes of war and peace, new ideologies, mass politics and society, industrialization and growth in state power. <strong>Note:</strong> Credit will be granted for only one of HSTR 240B, HIST 140, HIST 140B, HIST 240. <strong>Recommendation(s):</strong> HSTR 240, or 240A and HSTR 240B recommended for students wishing to take advanced courses in European History.</td>
</tr>
<tr>
<td><strong>HSTR 252</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HIST 252, half of 252 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. <strong>Note:</strong> Credit will be granted for only one of HSTR 252B, HIST 254, PACI 254.</td>
</tr>
<tr>
<td><strong>HSTR 252B</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>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. <strong>Note:</strong> Credit will be granted for only one of HSTR 252A, HIST 252, HIST 255, PAC 255.</td>
</tr>
<tr>
<td><strong>HSTR 252B</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>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. <strong>Note:</strong> Credit will be granted for only one of HSTR 252B, HIST 256, PACI 256.</td>
</tr>
<tr>
<td><strong>HSTR 253</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>Formerly: HIST 271 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. <strong>Note:</strong> Credit will be granted for only one of HSTR 253, HIST 253, PACI 253.</td>
</tr>
<tr>
<td><strong>HSTR 256</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>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 Peron. <strong>Note:</strong> Credit will be granted for only one of HSTR 276, HIST 265 (if taken in the same topic), HIST 271.</td>
</tr>
</tbody>
</table>
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, HSTR 277, HIST 265 (if taken in the same topic).

HSTR 300B
Units: 1.5
Hours: 3-0
Formerly: HIST 348A
Hockey Nation: Sports History and Canadian Identity
Examines the history of Canada through the history of sport from pre-industrial times to the late 20th century. Includes attention to Aboriginal games, lacrosse, ice hockey, baseball, basketball, football and track and field.
Notes:
• Credit will be granted for only one of HSTR 300B, HIST 348A, HIST 358 (if taken as section A04 in Sep-Dec 2012).
• May not be counted toward upper-level requirements in Honours, Major, or General and Minor Programs in History.
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 - HSTR 316A**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Prerequisites</th>
<th>Description</th>
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<tr>
<td>HSTR 307B</td>
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<tr>
<td>HSTR 307B</td>
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<td>3-0</td>
<td>HIST 315B, part of 315</td>
<td>The United States in the World, 1914-present</td>
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<td>HSTR 308</td>
<td>1.5</td>
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<td>HIST 316</td>
<td>The United States and Vietnam</td>
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<td>HSTR 309</td>
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<td>3-0</td>
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<td>Race Riots in American Cities</td>
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<td>HSTR 310</td>
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<td>3-0</td>
<td>HIST 318</td>
<td>Topics in American History</td>
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<td>HSTR 310A</td>
<td>1.5</td>
<td>3-0</td>
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<td>African-American History</td>
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<tr>
<td>HSTR 310B</td>
<td>1.5</td>
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<td>US-Soviet Relations in the Cold War Era</td>
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<td>HSTR 310C</td>
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<td>American History in Film</td>
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<tr>
<td>HSTR 310D</td>
<td>1.5</td>
<td>3-0</td>
<td>HIST 310</td>
<td>The American West</td>
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<tr>
<td>HSTR 312</td>
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<td>3-0</td>
<td>HIST 321</td>
<td>Tudor-Stuart England</td>
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<td>HSTR 313A</td>
<td>1.5</td>
<td>3-0</td>
<td>HIST 324A, part of 324</td>
<td>Britain's Rise to World Power, 1689-1837</td>
</tr>
<tr>
<td>HSTR 313B</td>
<td>1.5</td>
<td>3-0</td>
<td>HIST 324B, part of 324</td>
<td>English Society, 1689-1837</td>
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<tr>
<td>HSTR 314A</td>
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<td>3-0</td>
<td></td>
<td>Becoming the Victorians, Britain 1789-1851</td>
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<tr>
<td>HSTR 314B</td>
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<td>The Victorians to the Great War, Britain 1851-1914</td>
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<tr>
<td>HSTR 315A</td>
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<td>3-0</td>
<td>HIST 327A, part of 327</td>
<td>Britain's Short Twentieth Century 1901-1951</td>
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<tr>
<td>HSTR 315B</td>
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<td>3-0</td>
<td>HIST 327B, part of 327</td>
<td>Modern Britain 1951-the present</td>
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<tr>
<td>HSTR 316A</td>
<td>1.5</td>
<td>3-0</td>
<td>HIST 328A, part of 328</td>
<td>Death and the Afterlife in England, 1200-1750</td>
</tr>
</tbody>
</table>
The British Monarchy since 1689

Examines death and attitudes toward the afterlife and the supernatural. Themes include: popular and elite attitudes toward death and dissection; grief and mourning in Victorian England; the emergence of the modern cemetery and the rise of cremation; spiritualism, the First World War and the role of modern media in shaping responses to the death of celebrities.

Note: Credit will be granted for only one of HSTR 320A, HIST 330, HIST 338, HIST 339 (if taken as section F01 of Sep-Dec 2005).

HST 312B  Units: 1.5  Hours: 3-0
Formerly: HSTR 312B, part of 328

Death and the Afterlife in England, 1750 to the Present

Examines 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 expiate 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 HST 320C, HIST 339 (if taken in the same topic).

HST 320D  Units: 1.5  Hours: 3-0

Scottish History in Film, 1314 - present

Examination of cinematic representations of Scotland's past. Themes and topics 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 1990; Hollywood tartanism.

HST 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 HST 320E, HST 320 (if taken in Jan-Apr 2015), HIST 339 (if taken in Jan-Apr 2008).

HST 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 HST 322A, HIST 344, HIST 344A.

HST 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 HST 322B, HIST 344, HIST 344B.

HST 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 HST 323, HIST 345.

HST 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 HST 324A, HIST 354A.

HST 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 HST 324B, HIST 354B.

HST 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 HST 324C, HIST 355.

HST 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 HST 325, HIST 354C, HIST 358 (if taken in the same topic).

HST 327A  Units: 1.5  Hours: 3-0
Formerly: part of HIST 358A

Gender and Sexuality in Canada to 1920

Examines historical forms of masculinity and femininity in Canada, as well as the diverse experiences of men and women of different races, classes, religions and sexualities. Focuses on issues of gender and sexuality in indigenous cultures both pre- and post-contact, and explores religious experiences, changing patterns of work and family, health, education, violence, politics, sport, social reform and the rise of feminism.

Note: Credit will be granted for only one of HST 327A, HIST 358 (if taken in the same topic), HIST 358A.
HSTR 327B - HSTR 339B

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 385C, 385F
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-British 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 358D, 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 as well as the experiences of Indigenous Peoples, immigrants and of community development using film, fiction and popular, social and political histories. Topics may include histories of dispossession, exclusion, racism, and antisemitism as well as narratives of resistance, survival and resurgence.

Note: Credit will be granted for only one of HSTR 329B, HIST 358 (if taken in the same topic), HIST 358D (if taken in Sep 1989 - Aug 2001), HIST 358G, 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
Explores the history of treaties and treaty making between Indigenous peoples and colonial/national states in what is now Canada, from early pacts of peace and friendship to modern comprehensive agreements. Introduces treaty research methods, including analysis of documentary evidence and Indigenous oral tradition.

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 336B  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 Ainulindalë 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  Units: 1.5  Hours: 3-0
Also: ITAL 373
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, ITAL 373.

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 house 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.
<table>
<thead>
<tr>
<th>COURSE LISTINGS HSTR</th>
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<tr>
<td><strong>HSTR 339C</strong></td>
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<tr>
<td>Enlightenment and Religion</td>
</tr>
<tr>
<td>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.</td>
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<td><strong>Note:</strong> Credit will be granted for only one of HSTR 339C, HIST 388 (if taken in the same topic).</td>
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<td><strong>HSTR 340</strong></td>
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<tr>
<td>Topics in European History</td>
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<td>• Credit will be granted for only one of HSTR 340, HIST 388 (if taken in the same topic).</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><strong>HSTR 342A</strong></td>
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<tr>
<td>Formerly: HIST 362</td>
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<tr>
<td>Europe from Louis XIV to the French Revolution</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Note:</strong> Credit will be granted for only one of HSTR 342A, HIST 362, HIST 388 (if taken as section A01 in Jan-Apr 2010).</td>
</tr>
<tr>
<td><strong>HSTR 342B</strong></td>
</tr>
<tr>
<td>Formerly: HIST 363</td>
</tr>
<tr>
<td>Revolutionary and Napoleonic Europe, 1789-1815</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Note:</strong> Credit will be granted for only one of HSTR 342B, HIST 363.</td>
</tr>
<tr>
<td><strong>Recommendation(s):</strong> HSTR 240, or HSTR 240A and HSTR 240B recommended prior to HSTR 342B.</td>
</tr>
<tr>
<td><strong>HSTR 342C</strong></td>
</tr>
<tr>
<td>Formerly: HIST 365, part of 365A and B</td>
</tr>
<tr>
<td>Democracy, War and Nation Building in Europe, 1814-1914</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Note:</strong> Credit will be granted for only one of HSTR 342C, HIST 365, HIST 365A, HIST 365B.</td>
</tr>
<tr>
<td><strong>HSTR 344A</strong></td>
</tr>
<tr>
<td>The First World War</td>
</tr>
<tr>
<td>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 conflicts of machines and science.</td>
</tr>
<tr>
<td><strong>Note:</strong> Credit will be granted for only one of HSTR 344A, HIST 265 (if taken in the same topic).</td>
</tr>
<tr>
<td><strong>HSTR 344B</strong></td>
</tr>
<tr>
<td>Formerly: HIST 366</td>
</tr>
<tr>
<td>Europe Between Two World Wars</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Note:</strong> Credit will be granted for only one of HSTR 344B, HIST 366.</td>
</tr>
<tr>
<td><strong>Recommendation(s):</strong> HSTR 112A and HSTR 112B, or HSTR 240A and HSTR 240B recommended prior to HSTR 344B.</td>
</tr>
<tr>
<td><strong>HSTR 344C</strong></td>
</tr>
<tr>
<td>Formerly: HIST 367</td>
</tr>
<tr>
<td>The Second World War and the Recovery of Western Europe</td>
</tr>
<tr>
<td>Examination of the effects of the Second World War on Europe, and the recovery of the Western European states in the postwar period.</td>
</tr>
<tr>
<td><strong>Note:</strong> Credit will be granted for only one of HSTR 344C, HIST 367.</td>
</tr>
<tr>
<td><strong>Recommendation(s):</strong> HSTR 112A and HSTR 112B, or HSTR 240A and HSTR 240B recommended prior to HSTR 344C.</td>
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<tr>
<td><strong>HSTR 345</strong></td>
</tr>
<tr>
<td>Also: SLST 345</td>
</tr>
<tr>
<td>The Eastern Front in the First and Second World Wars</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Note:</strong> Credit will be granted for only one of HSTR 345, HIST 340 (if taken as section A01 in Sep-Dec 2014), SLST 345.</td>
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<tr>
<td><strong>HSTR 346</strong></td>
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<tr>
<td>Formerly: HIST 369</td>
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<tr>
<td>France from the Renaissance to Louis XIV</td>
</tr>
<tr>
<td>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, duel ing and war, humanism, salon culture and the rise of absolutism.</td>
</tr>
<tr>
<td><strong>Note:</strong> Credit will be granted for only one of HSTR 346, HIST 369.</td>
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<tr>
<td><strong>Recommendation(s):</strong> HSTR 240, or HSTR 240A and HSTR 240B recommended prior to HSTR 346.</td>
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<tr>
<td><strong>HSTR 347A</strong></td>
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<tr>
<td>Formerly: HIST 370A, 370</td>
</tr>
<tr>
<td>Reaction, Reform and Revolution in France, 1814-1914</td>
</tr>
<tr>
<td>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.</td>
</tr>
<tr>
<td><strong>Note:</strong> Credit will be granted for only one of HSTR 347A, HIST 370, HIST 370A.</td>
</tr>
<tr>
<td><strong>Recommendation(s):</strong> HSTR 240, or HSTR 240A and HSTR 240B recommended prior to HSTR 347A.</td>
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<tr>
<td><strong>HSTR 347B</strong></td>
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<tr>
<td>Formerly: HIST 370B, 371</td>
</tr>
<tr>
<td>Reaction, Reform and Revolution in France, 1914-1982</td>
</tr>
<tr>
<td>Study of the dynamic between revolution and reform as France struggled to implement democracy. Political culture, gender relations and social welfare are major themes.</td>
</tr>
<tr>
<td><strong>Note:</strong> Credit will be granted for only one of HSTR 347B, HIST 370B, HIST 371.</td>
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<tr>
<td><strong>Recommendation(s):</strong> HSTR 240, or HSTR 240A and HSTR 240B recommended prior to HSTR 347B.</td>
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<tr>
<td><strong>HSTR 349</strong></td>
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<tr>
<td>Hitler in History</td>
</tr>
<tr>
<td>Key themes to be explored through printed documents, films and photographs include: the misfit, artist, soldier, antisemite, 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.</td>
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<tr>
<td><strong>Note:</strong> Credit will be granted for only one of HSTR 349, HIST 300 (if taken in the same topic).</td>
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<tr>
<td><strong>HSTR 350A</strong></td>
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<tr>
<td>Formerly: HIST 372</td>
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<tr>
<td>Imperial Germany</td>
</tr>
<tr>
<td>Examination of the principal themes in German history between the formation of the united state in 1871 and the German revolution of 1918-1919.</td>
</tr>
<tr>
<td><strong>Note:</strong> Credit will be granted for only one of HSTR 350A, HIST 372.</td>
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<tr>
<td><strong>Recommendation(s):</strong> HSTR 240, or HSTR 240A and HSTR 240B recommended prior to HSTR 350A.</td>
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<tr>
<td><strong>HSTR 350B</strong></td>
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<tr>
<td>Formerly: HIST 373</td>
</tr>
<tr>
<td>Weimar and Nazi Germany</td>
</tr>
<tr>
<td>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.</td>
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<tr>
<td><strong>Note:</strong> Credit will be granted for only one of HSTR 350B, HIST 373.</td>
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<tr>
<td><strong>Recommendation(s):</strong> HSTR 112A and HSTR 112B, or HSTR 240A and HSTR 240B recommended prior to HSTR 350A.</td>
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<tr>
<td><strong>HSTR 350C</strong></td>
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<tr>
<td>Formerly: HIST 378</td>
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<tr>
<td>Germany After 1945</td>
</tr>
<tr>
<td>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.</td>
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<tr>
<td><strong>Note:</strong> Credit will be granted for only one of HSTR 350C, HIST 378, HIST 388 (if taken in the same topic).</td>
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<td>Course Code</td>
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<td><strong>HSTR 351</strong></td>
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<td><strong>HSTR 356A</strong></td>
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<td><strong>HSTR 365</strong></td>
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<td><strong>HSTR 365A</strong></td>
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<td><strong>HSTR 370</strong></td>
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<td><strong>HSTR 372</strong></td>
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</tbody>
</table>
### HSTR 374
**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 375
**Units:** 1.5  **Hours:** 3-0

**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-Asian slavery, abolition, the world system, as well as nationalisms in the Afro-Asian world, with an emphasis on Mohandas Gandhi, Subhas Chandra Bose, Frantz Fanon and Nelson Mandela.

### HSTR 376A
**Units:** 1.5  **Hours:** 3-0
Also: SPAN 484C
Formerly: HIST 470

**Conquest and Rebellion in Latin America, 1492 - 1783**
- Includes 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 "plantation complex" and the "Great Rebellions" of the 18th-century Andes.
- **Note:** Credit will be granted for only one of HSTR 376A, HIST 470, SPAN 484C.

### HSTR 376B
**Units:** 1.5  **Hours:** 3-0
Also: SPAN 484D
Formerly: HIST 471

**The Struggle for Independence in Latin America, 1767-1867**
- Topics include creole patriotism, the Enlightenment and Latin America, the growth of anti-slavery 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 focusing on Argentina, Colombia, México and Perú.
- **Note:** Credit will be granted for only one of HSTR 376B, HIST 471, SPAN 484D.

### HSTR 376C
**Units:** 1.5  **Hours:** 3-0
Also: SPAN 484E

**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 Marijtuge to "Ché" 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.
- **Note:** Credit will be granted for only one of HSTR 376C, HIST 468 (if taken in the same topic), SPAN 484E.

### HSTR 377
**Units:** 1.5  **Hours:** 3-0
Formerly: HIST 440

**Topics 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. Pays close attention to recent titles in the historiography.
- **Notes:**
  - Credit will be granted for only one of HSTR 377, HIST 477 (if taken in the same topic), HIST 440 (if taken in the same topic), HIST 468 (if taken in the same topic).
  - May be taken more than once for credit in different topics with permission of the department.
- **Recommendation(s):** HSTR 112 or HSTR 112A, and HSTR 112B recommended prior to HSTR 377.

### HSTR 378
**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
**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 440 (if taken in the same topic), HIST 444.

### HSTR 380
**Units:** 1.5  **Hours:** 3-0

**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, ISIS).
- **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
Formerly: part of HIST 390

**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, 1945-present**
- Explores the nature of world conflict since the end of World War II 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 - HSTR 427**

**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 320 (if taken in the same topic), HIST 320A.

*Recommendation(s):* HSTR 336 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, HIST 220B, HIST 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).

**HSTR 416**  
Units: 1.5  
Hours: 3-0  
Mass Media and British Politics and Society, 1896-1956

Focuses on the social, political and cultural implications of the emergence of new mass media in Britain in the late nineteenth and early twentieth century. Treats the issues both chronologically and thematically by concentrating on specific developments and particular cases.

*Note:* Credit will be granted for only one of HSTR 416, HIST 338 (if taken in the same topic).

*Recommendation(s):* A general knowledge of the period recommended prior to HSTR 416.

**HSTR 420**  
Units: 1.5  
Hours: 3-0  
Formerly: HIST 338  
Seminar in British History

Notes:
- Credit will be granted for only one of HSTR 420, HIST 338 (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 420.

**HSTR 426**  
Units: 1.5  
Hours: 3-0  
Seminar in Canadian Military History

Examines warfare and the armed forces’ influence on the history of Canada. Topics include imperial war, defence policy and the birth of Canada, militia and society, the Boer War, First and Second World Wars, Korea, the Cold War, NATO, NORAD and peacekeeping and peace enforcement. Explores social, cultural, political and economic issues.

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

**HSTR 426A**  
Units: 1.5  
Hours: 3-0  
Veterans’ Oral History

Explores the theoretical issues related to doing oral history as well as providing students the opportunity to interview veterans from all three branches of the Armed Forces who have taken part in any of Canada’s wars from WWII to Afghanistan. In interviewing veterans, students will be assisting the Veterans’ Oral History Project, which is sponsored by the Royal United Services’ Institute.

*Note:* Credit will be granted for only one of HSTR 426A, HIST 394 (if taken in the same topic).

*Recommendation(s):* At least 1.5 units of HSTR courses in military history with a minimum grade of B strongly recommended prior to HSTR 426A.

**HSTR 427**  
Units: 1.5  
Hours: 3-0  
Seminar in Indigenous History of Canada

Explores the historical experiences of Indigenous peoples in what is now Canada. Introduces students to the theoretical and methodological challenges of reconstructing Indigenous pasts through investigation of Indigenous conceptions of history, oral traditions and traditional historiography.

*Note:* May be taken more than once for credit in different topics with permission of the department.
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<th>COURSE LISTINGS HSTR</th>
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| **HSTR 428A** Units: 1.5 Hours: 3-0  
An Environmental History of the North American Forest  
Examines the human relationship to the forest environment from pre-contact Aboriginal resource management to current environmental conflicts. Topics include the social and ecological impact of settlement and industry, the conservation movement, the relationship of science and technology to the regulatory process and labour and leisure.  
**Note:** Credit will be granted for only one of HSTR 428A, HIST 359 (if taken in the same topic).  |
| **HSTR 429** Units: 1.5 Hours: 3-0  
Seminar in Canadian Political History  
Examines the elections, parties, policies, scandals, strategies and debates that have shaped Canada’s political environment since Confederation.  
**Note:** May be taken more than once for credit in different topics with permission of the department.  |
| **HSTR 430** Units: 1.5 Hours: 3-0  
Formerly: HIST 359  
Seminar in Canadian History  
Notes:  
• Credit will be granted for only one of HSTR 430, HIST 359 (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 436.  |
| **HSTR 436** Units: 1.5 or 3.0 Hours: 3-0  
Formerly: Part of HIST 380, 380A  
Seminar in Medieval Europe  
Notes:  
• Credit will be granted for only one of HSTR 436, HIST 380, 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 436F.  |
| **HSTR 436F** Units: 1.5 or 3.0 Hours: 3-0  
Formerly: HIST 380D  
Individual, Family and Community in Medieval Society  
Medieval European social history, concentrating on the role of the individual in society, and especially the place of children, women and the aged in the community. Focus on the nature and function of marriage and the family.  
**Note:** Credit will be granted for only one of HSTR 436F, HIST 380D.  
**Recommendation(s):** HSTR 236 recommended prior to HSTR 436L.  |
| **HSTR 436L** Units: 1.5 Hours: 3-0  
Formerly: HIST 380G  
Medieval Law and Literacy  
Writing, literacy and literate modes in the European manuscript tradition of law and legal records, from the sixth through the 15th centuries. Emphasis is placed on the central role of law and literacy in the development of societies in the Middle Ages, at the level both of government and of private individuals. Students will work directly with late medieval manuscript records in English.  
**Note:** Credit will be granted for only one of HSTR 436L, HIST 380A (if taken as section F01 in Sep-Dec 2004), HIST 380G, MODX 452 (if taken as section F01 in Sep-Dec 2004).  
**Recommendation(s):** HSTR 236 recommended prior to HSTR 436L.  |
| **HSTR 436T** Units: 1.5 Hours: 3-0  
The Records of the History of Middle-earth  
Advanced study of the complex sources that constitute the historical record of J.R.R. Tolkien's Middle-earth, from Creation through the Second Age.  
**Prerequisite(s):**  
• One of HSTR 363T, HIST 380T, HIST 380A (if taken as section A01 in Jan-Apr 2013); or  
• permission of the department.  |
| **HSTR 436W** Units: 1.5 or 3.0 Hours: 3-0  
Formerly: HIST 380E  
Medieval Foundations of the Western Legal Tradition  
Development of medieval ideas of law and the emergence of legal systems. Focus on the major changes in law and jurisprudence during the 11th and 12th centuries.  
**Note:** Credit will be granted for only one of HSTR 436W, HIST 380E.  
**Recommendation(s):** HSTR 236 recommended prior to HSTR 436W.  |
| **HSTR 440** Units: 1.5 Hours: 3-0  
Formerly: HIST 389  
Seminar in European History  
Notes:  
• Credit will be granted for only one of HSTR 440, HIST 389 (if taken in the same topic).  
• May be taken more than once for credit in different topics with permission of the department.  |
| **HSTR 442** Units: 1.5 Hours: 3-0  
Formerly: HIST 386  
Criminality and Violence in Europe, 1400-1800  
European justice shifted from punishing many criminals with torture and execution in 1400 to locking most of them in prison by 1800. Examines why rates of violent crime declined, why witches and heretics were prosecuted so aggressively, and whether or not reforming the criminal was an important goal of the criminal justice system during this period.  
**Note:** Credit will be granted for only one of HSTR 442, HIST 386.  |
| **HSTR 443** Units: 1.5 Hours: 3-0  
Atheism and Unbelief in Early Modern Europe  
Exploration of the problems associated with the study of atheism and unbelief in Europe during the period 1600 to 1789. Topics include: the legacy of classical antiquity; the role of Christianity in the rise of religion; the stereotype of ‘the atheist’; the social profile of atheists and unbelievers; the arguments used to undermine the credibility of religious belief.  
**Note:** Credit will be granted for only one of HSTR 443, HIST 389 (if taken in the same topic).  |
| **HSTR 444** Units: 1.5 Hours: 3-0  
Early Modern French Cultural History  
Uses the approach of cultural history to explore key themes in the history of early modern France. Topics include ritual and folktales, constructing and deconstructing the “Sun King”, a massacre of cats in 1730s Paris and other microhistories, theatre and punishment, the impotence of Louis XVI, the politicization of the everyday, the symbolism of the guillotine and a gentle introduction to cultural theory.  
**Note:** Credit will be granted for only one of HSTR 444, HIST 389 (if taken in the same topic).  |
| **HSTR 445A** 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.  |
| **HIST 450** Units: 1.5 Hours: 3-0  
Formerly: GMST 580  
Also: GMST 580, HIST 387, HIST 389 (if taken in the same topic).  
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, HIST 330B, HIST 140, HIST 140A, HIST 366, HIST 373, and  
• minimum third-year standing.  |
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSTR 451</td>
<td>1.5</td>
<td>3-0</td>
<td>Seminar in Russian and Eastern European History&lt;br&gt;Topics may include the Russian Revolution, Stalinism, the Soviet collapse and post-communist Russia.&lt;br&gt;<strong>Notes:</strong>&lt;br&gt;- Credit will be granted for only one of HSTR 451, HIST 389 (if taken in the same topic).&lt;br&gt;- May be taken more than once for credit in different topics with permission of the department.&lt;br&gt;- Intended for students with some academic background in Russian and Eastern European history.&lt;br&gt;<strong>Recommendation(s):</strong> HSTR 352 or HSTR 353 recommended prior to HSTR 451.</td>
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<tr>
<td>HSTR 465</td>
<td>1.5</td>
<td>3-0</td>
<td>Seminar in East Asian History&lt;br&gt;Formerly: HIST 439&lt;br&gt;<strong>Notes:</strong>&lt;br&gt;- 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).&lt;br&gt;- May be taken more than once for credit in different topics with permission of the department.</td>
</tr>
<tr>
<td>HSTR 465A</td>
<td>1.5</td>
<td>3-0</td>
<td>China in Local and Global History&lt;br&gt;Formerly: HIST 508A&lt;br&gt;<strong>Notes:</strong>&lt;br&gt;- Credit will be granted for only one of HSTR 465A, 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.</td>
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<tr>
<td>HSTR 466</td>
<td>1.5</td>
<td>3-0</td>
<td>Migration, Race &amp; Empire: Canada and the Transpacific&lt;br&gt;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 the Pacific Coast and how Canadian ‘whiteness’ was constructed in reaction to indigeneity and Asian migration. Looks at how the Canadian state helped construct a global Anglo-Saxon alliance which has shaped the modern world.&lt;br&gt;<strong>Note:</strong> Credit will be granted for only one of HSTR 466, HIST 439 (if taken in the same topic).</td>
</tr>
<tr>
<td>HSTR 470</td>
<td>1.5</td>
<td>3-0</td>
<td>Seminar in World and Comparative History&lt;br&gt;Formerly: HIST 469&lt;br&gt;<strong>Notes:</strong>&lt;br&gt;- Credit will be granted for only one of HSTR 470, HIST 469 (if taken in the same topic).&lt;br&gt;- May be taken more than once for credit in different topics with permission of the department.</td>
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<tr>
<td>HSTR 474</td>
<td>3.0</td>
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<td>Colonial Legacies Field School in South Africa&lt;br&gt;Students learn about impacts of colonial histories in everyday life and on rural and urban landscapes. Topics may include: sustainable rural development; apartheid and reconciliation; grassroots anti-poverty initiatives; community responses to HIV/AIDS; gender and development; land, labour and global economy; modes of historical memory. One-week classroom intensive at the University and three weeks in South Africa.&lt;br&gt;<strong>Note:</strong> Credit will be granted for only one of HSTR 474, HIST 470 (if taken as section A01 or A02 in May-Aug 2014).</td>
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<tr>
<td>HSTR 477</td>
<td>1.5</td>
<td>3-0</td>
<td>Seminar in the History of the Modern Middle East&lt;br&gt;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.&lt;br&gt;<strong>Notes:</strong>&lt;br&gt;- Credit will be granted for only one of HSTR 477, HSTR 377 (if taken in the same topic).&lt;br&gt;- May be taken more than once for credit in different topics with permission of the department.</td>
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<tr>
<td>HSTR 479</td>
<td>1.5</td>
<td>3-0</td>
<td>Religion and State in the Modern Middle East&lt;br&gt;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.&lt;br&gt;<strong>Note:</strong> 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).&lt;br&gt;<strong>Recommendation(s):</strong> HSTR 112, or HSTR 112A and HSTR 112B recommended prior to HSTR 479.</td>
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<tr>
<td>HSTR 481</td>
<td>1.5</td>
<td>3-0</td>
<td>A Global History of the Chinese Overseas&lt;br&gt;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.&lt;br&gt;<strong>Note:</strong> Credit will be granted for only one of HSTR 481, HIST 451.</td>
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<tr>
<td>HSTR 482</td>
<td>1.5</td>
<td>3-0</td>
<td>Seminar in Peace and War Studies&lt;br&gt;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.&lt;br&gt;<strong>Notes:</strong>&lt;br&gt;- Credit will be granted for only one of HSTR 482, HIST 394 (if taken in the same topic).&lt;br&gt;- May be taken more than once for credit in different topics with permission of the department.</td>
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<tr>
<td>HSTR 482A</td>
<td>1.5</td>
<td>3-0</td>
<td>Issues in the History of the Second World War&lt;br&gt;Examines current historiographical issues of the Second World War.&lt;br&gt;<strong>Note:</strong> Credit will be granted for only one of HSTR 482A, HIST 391, HIST 392 (if taken in the same topic).&lt;br&gt;<strong>Recommendation(s):</strong> HIST 115 and/or HSTR 344C recommended prior to HSTR 482A.</td>
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<tr>
<td>HSTR 483</td>
<td>1.5</td>
<td>3-0</td>
<td>The City in History&lt;br&gt;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.&lt;br&gt;<strong>Note:</strong> Credit will be granted for only one of HSTR 483, HIST 469 (if taken in the same topic).</td>
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<tr>
<td>HSTR 484</td>
<td>1.5</td>
<td>3-0</td>
<td>The Social and Political History of Food in North America&lt;br&gt;Examines the way that food production and consumption have shaped the social, cultural, political and economic environment of North America over the last millennium.&lt;br&gt;<strong>Note:</strong> Credit will be granted for only one of HSTR 484, HIST 469 (if taken in the same topic).</td>
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<tr>
<td>HSTR 485</td>
<td>1.5</td>
<td>3-0</td>
<td>Seminar in Social and Cultural History&lt;br&gt;Examines 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.&lt;br&gt;<strong>Note:</strong> May be taken more than once for credit in different topics with permission of the department.</td>
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<tr>
<td>HSTR 485A</td>
<td>1.5</td>
<td>3-0</td>
<td>Gender, Sexuality and the Body since 1800&lt;br&gt;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.&lt;br&gt;<strong>Note:</strong> Credit will be granted for only one of HSTR 485A, HIST 469 (if taken in the same topic).</td>
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<tr>
<td>HSTR 485B</td>
<td>1.5</td>
<td>3-0</td>
<td>Making ‘Race’ in the British Atlantic World&lt;br&gt;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.&lt;br&gt;<strong>Note:</strong> Credit will be granted for only one of HSTR 485B, HIST 469 (if taken in the same topic).</td>
</tr>
</tbody>
</table>
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 494 (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 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 497, 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 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 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 450 (if taken in the same topic).
Prerequisite(s):
- IB 301 or COM 361; and
- minimum fourth-year standing; or
- permission of the school.
IB 408

**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

**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

**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

**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

**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

**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**

**Governance in Indigenous Communities**

Provides foundational information of concepts, themes and topics related to Indigenous governance, including historical and contemporary challenges facing Indigenous peoples in Canada. Topics are organized by eras beginning with pre-contact, European settlement, colonialism and treaties before proceeding to Constitutional Reform and the inherent right to self-government. Administrative aspects of Indigenous governance are examined: fiscal governance, economic development, program and service delivery, and intergovernmental relations.

**Note:** Credit will be granted for only one of ICDG 301, ADMN 470 (if taken in the same topic).

ICDG 302

**Units: 1.5**

**Communications in Indigenous Governments and Organizations**

Contemporary communications theory and application with specific emphasis on the communication tools necessary in Indigenous government organizations. Topics include: developing excellent written, verbal and interpersonal communication skills; technical and strategic approaches to written and verbal communication for internal and external audiences; stages of the writing process; report writing skills; composing responses; briefing notes, news releases and sensitive messages. Practices, strategies and tools necessary to engage Council, community and stakeholders using effective and inclusive communication processes.

ICDG 303

**Units: 1.5**

**Lands, Resources, and Economic Development**

Indigenous identity, culture, and economy is deeply connected to the land. Colonization restricted access to land and marginalized Indigenous economic development. Learners review the historic relationship to lands and the struggle to regain control and ownership. Canvassing governance frameworks for land, we consider opportunities to expand ownership and control. Economic implications are considered and success stories are highlighted. Students will consider what reconciliation means for the development of lands and resources.

ICDG 304

**Units: 1.5**

**Strategic Planning and Implementation**

Using a combination of Indigenous and Western planning concepts and processes, this is organized into four main themes described as Planting Season, Gathering Season, The Journey and The Path Forward. Topics include: Indigenous perspectives of planning, strategic planning as nation building, the role of community engagement in strategic planning and community development, strategic thinking, components of a strategic plan, the role of strategic management, and the role of leadership in strategic planning.

**Note:** Credit will be granted for only one of ICDG 304, ADMN 477.

ICDG 305

**Units: 1.5**

**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 resource 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 engagement 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 context. Learners continue to develop leadership skills and strategies for the workplace and community.

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.

**ICDG 308 - IED 199**

**Course Listings IED**

**IED 158**  
**Units: 1.5**  **Hours: 3-0**

**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 B.A. in Applied Linguistics and of the Diploma in Applied Linguistics.

- Subject to the “Guidelines for Ethical Conduct” and “Regulations Concerning Practice”.
- May not be counted towards 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**

**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, 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 towards 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.

**Grading:** COM, N, F

**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 287 (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, F

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.

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
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.

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

IED 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.

IED 358  Units: 1.5  Hours: 3-0
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.

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: INP, COM, N, F

IED 359  Units: 1.5  Hours: 3-0
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.

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.
IED 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 or F.

IED 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.

IED 373 Units: 1.5 Hours: 3-0
Formerly: EDCI 373, IS 373
EL TELNWT 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 or F.

IED 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.

IED 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.

IED 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 456 Units: 1.5 Hours: 3-0
Self-directed Immersive Language Learning IV
Equips and supports students to find, create and engage in immersive, communicative learning contexts for their own Indigenous languages at the fourth year level. Students 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 356, IED 358, IED 359, LING 358, LING 359; and
• registration in Diploma or BEd program in Indigenous Language Revitalization; or
• permission of the faculty.

IED 458 Units: 1.5 Hours: 3-0
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 in different topics with the 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.

Prerequisite(s):
• Subject to the “Guidelines for Ethical Conduct” and “Regulations Concerning Practice”
• May not be counted toward any degree program in Linguistics or Applied Linguistics, or a Diploma in Applied Linguistics.

Prerequisite(s):
• One of IED 358, IED 359, LING 358, LING 359; 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 459 Units: 1.5 Hours: 3-0
Indigenous Language IV
Teaching and learning of an Indigenous language at the fourth-year level.
Notes:
• May be taken more than once for credit in different topics with the 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.

Prerequisite(s):
• One of IED 358, IED 359, LING 358, LING 359; 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.

IED 473 Units: 1.5 Hours: 3-0
CENENITEL 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.
• Fulfills the curriculum methods in teaching Art, Music and/or Drama requirement in the Bachelor of Education in Indigenous Language Revitalization within an Indigenous framework.

Prerequisite(s):
• Registration in BEd program in Indigenous Language Revitalization; or
• permission of the faculty.

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.
IEG 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
Diploma in Intercultural Education Interdisciplinary Programs
Courses offered by the Faculty of Education are also found under the following course codes: AE, ED-D, ED-P, EDCI, EPHE, IA, IED, IET, ME.

IET 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: INP, 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: INP, 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 programs 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
Faculty of Human and Social Development
Courses offered subject to adequate enrolment.

IGOV 481  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 482  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 483  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 484  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
School of Public Health and Social Policy
Faculty of Human and Social Development

INGH 453  Units: 1.5
Wise Practices in Indigenous Community Health
Focuses on population and public health models to examine the current state of Indigenous health policies, programs and services in Canada, with particular emphasis on those that function to improve Indigenous community health. Students will also explore jurisdictional barriers to optimal health as well as community-based interventions that promote health. Within this framework, the concept and utility of cultural safety within mainstream health care systems will be examined.

INGH 454  Units: 1.5
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  Units: 1.5
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  Units: 1.5
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  Units: 1.5
The Role of Knowledge in Global Health
Focuses on issues and challenges in international and global work in the fields of health and human development. Using case studies and a broad definition of research that includes the production and application of knowledge, critically examines various factors influencing an integrated and sustainable approach to international work promoting health and human development.
IS 200A - ITAL 150

**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: 220

**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 200A, IS 200B.

**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):** IS 200; or IS 200B.

**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 in this context as a person who has spoken Italian since childhood and/or has received sufficient instruction in the language to be literate in it. A near-native speaker is defined as a person who speaks, writes and understands Italian with few errors and only the occasional non-patterned mistake. The department will assign students with some knowledge of Italian to the appropriate level.

**ITAL 100A**  
Units: 1.5  
**Hours: 3-0**

**Beginners’ Italian I**

Exploration of the language and culture of Italy. Acquisition of basic skills of pronunciation, reading and writing. Instruction in essential points of grammar, basic syntax and vocabulary for daily interaction.

**Notes:**

• Credit will be granted for only one of ITAL 100A, ITAL 100B, ITAL 149.

• Priority is given to students with first- or second-year standing.

**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.

**Notes:**

• Credit will be granted for only one of ITAL 100B, ITAL 101, ITAL 149.

• Priority is given to students with first- or second-year standing.

**ITAL 149**  
Units: 3.0  
**Hours: 6-0**

**Beginners’ Italian**

Exploration of the language and culture of Italy, equivalent to ITAL 100A and 100B. Acquisition of basic skills of pronunciation, reading and writing. Instruction in essential points of grammar, basic syntax and vocabulary for daily interaction.

**Notes:**

• Credit will be granted for only one of ITAL 149, ITAL 100, ITAL 101, 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
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<tbody>
<tr>
<td>ITAL 204</td>
<td>1.5</td>
<td>3-0</td>
<td>Experiential Learning</td>
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<td>Students present a project, determined in advance by the department, based on work, study, research, or volunteering while living in Italy.</td>
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<td>Prerequisite(s): Permission of the department.</td>
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<td>Grading: COM, N, F.</td>
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<tr>
<td>ITAL 250A</td>
<td>1.5</td>
<td>3-0</td>
<td>Review of Grammar and Conversation I</td>
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<td>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.</td>
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<td>Prerequisite(s): ITAL 250A.</td>
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<td>Note: Credit will be granted for only one of ITAL 250A, ITAL 200.</td>
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<tr>
<td>ITAL 250B</td>
<td>1.5</td>
<td>3-0</td>
<td>Review of Grammar and Conversation II</td>
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<td>Continued exploration of the language and culture of Italy. Additional expansion of grammatical concepts and structures presented in beginners’ Italian. Further development of writing, reading, speaking and listening skills. Taught mostly in Italian.</td>
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<td>Prerequisite(s): ITAL 250A.</td>
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<td>Note: Credit will be granted for only one of ITAL 250B, ITAL 200.</td>
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<tr>
<td>ITAL 265</td>
<td>1.5</td>
<td>3-0</td>
<td>Introductory Written Italian</td>
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<td>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.</td>
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<td>Prerequisite(s): ITAL 250A, or permission of the department.</td>
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<tr>
<td>ITAL 273</td>
<td>1.5</td>
<td>3-0</td>
<td>Italian Renaissance (in English)</td>
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<td>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.</td>
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<td>Prerequisite(s): Minimum second-year standing.</td>
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<td>ITAL 304</td>
<td>1.5</td>
<td>3-0</td>
<td>Rome, the Eternal City (in English)</td>
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<td>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.</td>
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<td>Prerequisite(s): Permission of the department.</td>
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<tr>
<td>ITAL 305</td>
<td>1.5</td>
<td>3-0</td>
<td>A Taste of Italy, Food as Culture (in English)</td>
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<td>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.</td>
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<tr>
<td>ITAL 306</td>
<td>1.5</td>
<td>3-0</td>
<td>Italian Culture (in English)</td>
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<td>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.</td>
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<tr>
<td>ITAL 308</td>
<td>1.5</td>
<td>3-0</td>
<td>Travels to Bell’Italia (in English)</td>
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<td>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.</td>
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<td>Prerequisite(s): Minimum second-year standing.</td>
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<tr>
<td>ITAL 309</td>
<td>1.5</td>
<td>3-0</td>
<td>Advanced Italian Grammar</td>
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<td>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.</td>
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<td>Notes: Credit will be granted for only one of ITAL 350, ITAL 302, ITAL 310.</td>
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<td>Normally alternates with ITAL 351. Students are advised to consult with the department to determine when this is offered.</td>
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<tr>
<td>ITAL 350</td>
<td>1.5</td>
<td>3-0</td>
<td>Dante’s Divine Comedy (in English)</td>
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<td>Study of one of the world’s great poems, the Divine Comedy, through a close reading of its three books, the Inferno, the Purgatorio and the Paradiso. 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.</td>
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<td>Prerequisite(s): Minimum second-year standing.</td>
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<tr>
<td>ITAL 351</td>
<td>1.5</td>
<td>3-0</td>
<td>Boccaccio’s Decameron (in English)</td>
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<td>Considers the human comedy of Boccaccio’s Decameron, a collection of tales plus the frame which makes a whole out of these parts by establishing a context, the plague of 1348 which brings together 10 young survivors. Explores Boccaccio’s life as a pre-Humanist alongside his friend Francis Petrarch.</td>
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<td>Prerequisite(s): Minimum second-year standing.</td>
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### ITAL 472B  
**Francis Petrarch: His Life as Literature (in English)**  
Considers the fullness of Francis Petrarch, first modern man of love poetry and letters, his friendships and enduring obsession for Laura, highlighting his time which spanned much of the 14th century. The 366 lyrics of the Canzoniere are the constant text, along with Petrarch’s correspondence in Familiar Matters and Of Riper Years, a reflection over some 40 years of minute detail of his life and thought.  
**Note:** Credit will be granted for only one of ITAL 472B, ITAL 472.  
**Prerequisite(s):** Minimum second-year standing.  

### ITAL 474  
**Italian Comic Theatre**  
The development of the Italian comedy, from the Mandragola of Niccolò Machiavelli to the comedies of Carlo Goldoni, with particular emphasis given to the influence of the Commedia dell’Arte and the hedonistic atmosphere of 18th century Venice on Goldoni and the role of women in his comedies.  
**Notes:**  
- Credit will be granted for only one of ITAL 474, ITAL 370D.  
- May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.  
**Pre- or Corequisite(s):** ITAL 350 or ITAL 351.  

### ITAL 478  
**Topics in Modern Italian Literature**  
Major literary works of 20th century Italy. Authors to be studied may include Tozzi, Svevo, Prandelli, Pavese, Moravia and Maraini.  
**Notes:**  
- Credit will be granted for only one of ITAL 478, ITAL 370C.  
- May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.  
**Pre- or Corequisite(s):** ITAL 350 or ITAL 351.  

### ITAL 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.  
**Prerequisite(s):** Minimum second-year standing.  

### ITAL 485  
**Topics in Italian Film**  
Introduction to major accomplishments in Italian film, from the start of the talkies during Fascist times to contemporary cinema with emphasis on directors such as De Sica, Rossellini, Fellini and Wertmüller. May be given in Italian or English.  
**Note:** May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.  
**Pre- or Corequisite(s):**  
- If taken in Italian, ITAL 350 or ITAL 351.  
- If taken in English, minimum second-year standing.  

### ITAL 491  
**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.  
**Note:** Credit will be granted for only one of ITAL 491, SPAN 491.  
**Prerequisite(s):**  
- Minimum third-year standing; or  
- permission of the department.  
**Recommendation(s):** Recommended for Honours in Hispanic Studies, Majors or Minor in Hispanic Studies or Italian Studies.  

### ITAL 495  
**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.  
**Prerequisite(s):** Declared Honours in Latin American Studies.  

### LAS 400  
**Special Topics in Latin American Studies (in English)**  
An interdisciplinary perspective on Latin America focusing on a particular topic. Students have the opportunity to pursue a related interest. Readings, discussions and work submitted will be in English. Topics may include community empowerment; gender; nation, ethnicity and identity.  
**Notes:**  
- Credit will be granted for only one of LAS 400, LAS 300 (if taken in the same topic).  
- May be taken more than once for credit in different topics.  
**Prerequisite(s):** Minimum second-year standing.  

### LAS 499  
**Honours Graduating Essay**  
Directed readings and research for Honours students conducive to writing a research essay of 10,000 to 12,000 words in English or Spanish. This essay can be an expansion of the essay written for LAS 300.  

### LAS 505  
**Directed Latin I**  
Introduction to the basic grammatical patterns of the language of ancient Rome, practiced in a series of readings adapted from Latin literature.  
**Note:**  
- Credit will be granted for only one of LATI 101, LATI 100.  
- No previous knowledge of Latin required.  

### LATI 472B - LATI 505  
**Directed 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 100.  
**Prerequisite(s):** LATI 101.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Hours</th>
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<tr>
<td>LATI 201</td>
<td>Advanced Latin Grammar</td>
<td>1.5</td>
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<tr>
<td>LATI 202</td>
<td>Introduction to Latin Literature</td>
<td>1.5</td>
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<tr>
<td>LATI 301</td>
<td>Vergil</td>
<td>1.5</td>
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<tr>
<td>LATI 306</td>
<td>Horace</td>
<td>1.5</td>
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<td>LATI 307</td>
<td>Roman Historians</td>
<td>1.5</td>
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<tr>
<td>LATI 308</td>
<td>Cicero</td>
<td>1.5</td>
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<tr>
<td>LATI 309</td>
<td>Ovid</td>
<td>1.5</td>
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<tr>
<td>LATI 310</td>
<td>Roman Love Poetry</td>
<td>1.5</td>
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<tr>
<td>LATI 350</td>
<td>Medieval Latin</td>
<td>1.5</td>
<td>3-0</td>
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<tr>
<td>LATI 481</td>
<td>Seminar in Latin literature</td>
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<td>3-0</td>
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<tr>
<td>LAW 100</td>
<td>The Constitutional Law Process</td>
<td>3.0</td>
<td>2.0</td>
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<tr>
<td>LAW 102</td>
<td>The Criminal Law Process</td>
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<tr>
<td>LAW 104</td>
<td>Law, Legislation and Policy</td>
<td>1.5</td>
<td>4-0</td>
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</table>
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. Carves for 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 offences.

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-ostensible 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.
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 dispositions. Comparison is made with other concepts of obligation and property holding. The creation, administration, variation and termination of express trusts are examined, and also the theory and applicability of resulting and constructive trusts.

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 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 refusals 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

Access to Justice
Examines the facts 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 326
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 326A
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 LAW 326B, LAW 326.

LAW 326B
Units: 1.5 or 2.0
Hours: 3-0 or 4-0

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.
LAW 328 - LAW 346B

LAW 328  Units: 1.5  Hours: 3-0
Also: ES 419
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 LAW 328, ES 419, ES 450.

LAW 329  Units: 1.5  Hours: 3-0
Environmental Law
This is a foundational course for students interested in environmental law and policy. Students will acquire an overview of recent developments and debates within this area. Topics addressed include federalism and the environment, common law rights and remedies, public participation and judicial review, market mechanisms for environmental protection, endangered species, and trade and the environment. A key focus concerns the extent to which environmental law reflects, or fails to reflect, evolving social and other values.

LAW 330  Units: 1.5  Hours: 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 sovereign powers choose to govern their interrelationships and analyzes problems which confront them. Topics will include an examination of the international legal system, modes of international law creation and law enforcement as well as the process of international adjudication.

LAW 331  Units: 1.0 or 1.5  Hours: 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  Units: 1.5  Hours: 3-0
International Trade Law
Explores the major legal and policy aspects of the international trade regime in which the Canadian economy operates. Emphasis is upon core principles of international economic law applicable to the regulation of international trade. Particular attention is paid to the World Trade Organization and Canada's free trade agreements.

LAW 333  Units: 1.5  Hours: 3-0
Social Welfare Law
Helps students develop an understanding of the role of law, lawyers, and the legal system in addressing the problem of economic disadvantage. Topics include the origin and development of the Canadian welfare state, case studies of the issues of work, housing and income security, and the practice of poverty law as a strategy for change.

LAW 336  Units: 1.0 or 1.5  Hours: 2-0 or 3-0
Collective Agreements: Negotiation and Arbitration
A study of the negotiation and administration of collective agreements in the private sector. Topics include labour negotiation theory, bargaining structure, grievance resolution, contract interpretation, individual rights and the role of the Labour Relations Board.
Prerequisite(s): LAW 326.

LAW 337  Units: 1.0 or 1.5  Hours: 2-0 or 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 338  Units: 1.5  Hours: 3-0
Mediation and Lawyers
An in-depth and critical examination of the use of the mediation process to resolve a wide variety of substantive disputes involving business, family, criminal, environmental, international, and public policy issues. Provides students with an opportunity to review and evaluate contemporary perspectives on the mediation process and to develop skills that successful mediators employ in helping parties resolve their disputes. Builds on the concepts studied in LAW 337.
Prerequisite(s):
• LAW 337.
• permission of the faculty.

LAW 339  Units: 1.5  Hours: 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 340  Units: 1.5  Hours: 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 peoples' 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 341  Units: 1.5  Hours: 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 342  Units: 1.5  Hours: 3-0
Immigration and Citizenship Law
The laws regulating the admission and removal of foreign nationals to and from Canada, gaining access to Canada permanently - family class, skilled workers, business classes, humanitarian classes; the various Provincial Nominee Programs and the Canada-Québec Accord; temporary admission as a visitor or student and temporary worker; the impact of NAFTA; the processes for excluding and removing foreign nationals on grounds of health, security or criminality; the procedural and substantive criteria that determine citizenship.
Pre- or Corequisite(s): LAW 301.

LAW 343  Units: 0.5-2.0  Hours: 1.0-4.0
Contemporary Issues in Law
Contemporary and problematic legal issues will be examined in the light of existing legal rules, social and related implications, the legal process, and possible reform.
Notes:
• May be taken more than once for credit in different topics.
• Unit value may vary from 0.5 to 2 units per term.

LAW 344  Units: 1.5  Hours: 3-0
Insurance Law
The theory and elements of the practice of insurance law, with reference to the most common forms of both first party and third party insurance: property, life and motor vehicle insurance.

LAW 345  Units: 2.0  Hours: 4-0
Taxes
The basic principles of income tax law including such issues as taxable income, residence income from employment, business or property, and capital gains. Deals in a general way with policy underlying certain aspects of the Income Tax Act and provides an introduction to certain specific provisions of that Act, concentrating primarily on personal income tax law.

LAW 346A  Units: 1.0 or 1.5  Hours: 2-0 or 3-0
Advanced Taxation: Corporations
Builds upon the concepts studied in Taxation (345) and is concerned primarily with the Canadian income tax treatment of Canadian corporations and their shareholders.
Note: Credit will be granted for only one of LAW 346A, LAW 346.
Prerequisite(s): LAW 315 and LAW 345.

LAW 346B  Units: 1.0 or 1.5  Hours: 2-0 or 3-0
Advanced Taxation: International Taxation
Builds upon the concepts studied in Taxation (345) and is concerned primarily with the international tax system as it functions in respect of Canadian income tax treatment of non-residents (both individuals and corporations) on Canadian source income and tax treatment of foreign source income of Canadian residents. Includes the study of Canada's tax treaties, taxation of Canadian corporations on income of foreign subsidiaries and branches, and other aspects of international taxation.
Prerequisite(s): LAW 345.
LAW 347 Units: 1.5 Hours: 3-0
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.

Pre-requisite(s): LAW 347.

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, managing and marketing IPRs.

Pre-requisite(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.

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.

Pre-requisite(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, stampage, 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.

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.

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 364 Units: 1.5 Hours: 3-0
Law, Governance and Development
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.
### LAW 363 - Conflict of Laws
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** 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 365 - Legal Mooting
- **Units:** 1.0-4.0
- **Hours:** 2-0
- **Description:** 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 mootings programs approved by the Dean. Students cannot participate in more than one moot in a single academic year.

### LAW 366 - Patent Law
- **Units:** 1.0 or 1.5
- **Hours:** 2-0 or 3-0
- **Description:** A study of the principles and practical implications of patent protection in Canada. Discussions will include the fundamental concepts of patentability, validity, infringement and commercial exploitation of patentable technology, ultimately leading to a focus on the Canadian patent growth area of pharmaceutical and biotechnological product and process protection. There will also be a brief comparative view of the United States’ and Japanese systems in contrast to the Canadian patent system.

### LAW 367 - Communications Law and Policy
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** 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.

### LAW 368 - Indigenous Feminist Legal Studies
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** 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).

### LAW 369 - Feminist Legal Theories
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** 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.

### LAW 370 - Law and Society in Southeast Asia
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** 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.

### LAW 372 - Public Policy, Law and Dispute Resolution
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** 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.

### LAW 373 - International Human Rights and Dispute Resolution
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** 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.

### LAW 376 - International Environmental Law
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** 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.

### LAW 377 - International Arbitration
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** Introduces students to international arbitration, including arbitral agreements, applicable law, the enforcement of arbitral awards and arbitrations involving state parties. Particular attention is paid to investment treaty arbitration and the role international arbitration plays in the process of globalization.

### LAW 378 - Equality, Human Rights, and Social Justice Law
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** Examines the role of law and of legal conceptions of equality in struggles by equity seeking groups and individuals for social justice in Canada. Topics covered include the relation of social movements to law and social change. Charter equality rights and strategic litigation, the institutional and jurisprudential frameworks of domestic human rights law, and critical theoretical debates pertaining to anti-discrimination law.

### LAW 379 - Law and Religion
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** Explores historical, contemporary, and conceptual relationships between law and religion. Takes an interdisciplinary approach, engaging legal, theoretical, and historical sources. Considers topics such as the role of religion in the development of the Western legal tradition, constitutional protection of religion, religion and equality, religion and legal pluralism, religion and public decision-making, and contemporary controversies in law and religion. Primary focus on Canadian setting with some attention to other national traditions and international issues.

### LAW 380 - Bioethics, Personhood and the Law
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** Introduction to contemporary bioethical issues and their legal dimensions. Covers medical and biotechnological debates implicating human and nonhuman life at various stages. Current and prospective legal regulation is assessed through multiple critical theoretical frameworks related to gender, disability, age, class, race, sexual identity and culture. Engages centrally with legal concepts of personhood, dignity and equality.

### LAW 381 - Animals, Culture and the Law
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** 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.

### LAW 382 - Pension Law and Policy
- **Units:** 1.5
- **Hours:** 3-0
- **Description:** Introduction to Canadian pension law and policy. Examines the pension system, its historical development and the regulatory schemes that govern it. Canvasses influence of demographics, the changing labour market, privatization, neo-liberalism and globalization on pension coverage and inclusion. Considers law reform and policy debates.

**Note:** Credit will be granted for only one of LAW 379, LAW 343 (if taken in the same topic).
### LAW 383 - LAW 393

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LAW 383</strong></td>
<td><strong>1.5</strong></td>
<td><strong>3-0</strong></td>
<td>Municipal Law and Sustainability&lt;br&gt;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.&lt;br&gt;Note: Credit will be granted for only one of LAW 383, LAW 343 (if taken in the same topic).</td>
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<tr>
<td><strong>LAW 384</strong></td>
<td><strong>1.5</strong></td>
<td><strong>3-0</strong></td>
<td>Field Course in Environmental Law and Sustainability&lt;br&gt;Analyses the structure of law, policy, and sustainability in a particular geographic region. Review of overlapping jurisdictional and governance systems that shape a region.&lt;br&gt;Note: Credit will be granted for only one of LAW 384, LAW 343 (if taken in the same topic).</td>
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<tr>
<td><strong>LAW 385</strong></td>
<td><strong>1.0 or 1.5</strong></td>
<td><strong>2-0 or 3-0</strong></td>
<td>Comparative Copyright Law&lt;br&gt;Analyses copyright law and policy in the United States and Canada. Comparison is also made between &quot;copyright&quot; in Anglo-American common law jurisdictions and droit d'auteur (&quot;author's rights&quot;) in civil law jurisdictions, with France as the example. Legal theories and the relationship of both systems with &quot;traditional knowledge&quot; or cultural property are considered.&lt;br&gt;Note: Credit will be granted for only one of LAW 385, LAW 343 (if taken in the same topic).</td>
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<tr>
<td><strong>LAW 386A</strong></td>
<td><strong>2.0</strong></td>
<td><strong>0-2-2</strong></td>
<td>Environmental Law Centre Clinic Intensive: Legal Skills &amp; Sustainability&lt;br&gt;Intensive public interest environmental law clinic program in which students are supervised as they assist conservation, community and First Nations clients with legal representation, advocacy services and advice. Students receive training in client interviewing and counseling, file management, professional responsibility and litigation practice, and are introduced to a variety of sustainability law topics.&lt;br&gt;Note: Credit will be granted for only one of LAW 386A, LAW 353A.</td>
</tr>
<tr>
<td><strong>LAW 386B</strong></td>
<td><strong>2.0</strong></td>
<td><strong>0-2-2</strong></td>
<td>Formerly: LAW 353A&lt;br&gt;Environmental Law Centre Clinic Intensive: Problem Solving&lt;br&gt;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.&lt;br&gt;Note: Credit will be granted for only one of LAW 386B, LAW 353A.</td>
</tr>
<tr>
<td><strong>LAW 387</strong></td>
<td><strong>1.5</strong></td>
<td><strong>3.0</strong></td>
<td>Health Law&lt;br&gt;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.&lt;br&gt;Note: Credit will be granted for only one of LAW 387, LAW 343 (if taken in the same topic).</td>
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<tr>
<td><strong>LAW 388</strong></td>
<td><strong>1.5</strong></td>
<td><strong>3.0</strong></td>
<td>Formerly: LAW 353A&lt;br&gt;Advanced Legal Research and Writing&lt;br&gt;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.</td>
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<tr>
<td><strong>LAW 389</strong></td>
<td><strong>1.0-2.0</strong></td>
<td><strong>2-0-4.0</strong></td>
<td>Appeal - Review of Current Law and Law Reform&lt;br&gt;Uvic's Law legal journal offers students the opportunity to participate, as members of the editorial board, in the production of a legal review. Students reviewed involves responsible for running all aspects of the journal. In addition, each student must obtain 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.</td>
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<tr>
<td><strong>LAW 390</strong></td>
<td><strong>0</strong></td>
<td></td>
<td>Major Paper Requirement&lt;br&gt;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.</td>
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<tr>
<td><strong>LAW 391</strong></td>
<td><strong>1.0-2.0</strong></td>
<td><strong>2.0-4.0</strong></td>
<td>Supervised Group Project&lt;br&gt;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 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, groups 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 enrolment in the course.&lt;br&gt;Note: May be taken more than once for credit with permission of the faculty to a maximum of 4 units.</td>
</tr>
<tr>
<td><strong>LAW 392</strong></td>
<td><strong>1.5</strong></td>
<td><strong>3.0</strong></td>
<td>Water Law&lt;br&gt;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.&lt;br&gt;Note: Credit will be granted for only one of LAW 392, LAW 343 (if taken in the same topic).</td>
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<tr>
<td><strong>LAW 393</strong></td>
<td><strong>1.5</strong></td>
<td><strong>3.0</strong></td>
<td>Contaminated Sites and Environmental Remediation&lt;br&gt;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.&lt;br&gt;Note: Credit will be granted for only one of LAW 393, LAW 343 (if taken in the same topic).</td>
</tr>
</tbody>
</table>
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’ 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 099  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.
- Normally taken before ENGL 101.

Grading: COM, N, F

LING 100A  Units: 1.5  Hours: 3.0  
Formerly: half of 100
Foundations in Linguistics I
An introduction to the subject matter and core foundations of language and linguistics. Topics studied will include an overview of sounds and sound systems, writing systems, word structure, sentence structure, and meaning.

Notes:
- Credit will be granted for only one of LING 100A, LING 100, LING 181, LING 360, LING 362.
- Knowledge of a language other than English not necessary.

LING 100B  Units: 1.5  Hours: 3.0  
Formerly: half of 100
Foundations in Linguistics II
Explores foundational concepts in linguistics as applied to the study of language in society, language in the mind and brain, first and second language acquisition, language families, typological classification and historical language change.

Note: Credit will be granted for only one of LING 100B, LING 100, LING 360, LING 362.

Prerequisite(s):
- LING 100A or LING 181; or
- permission of the department.

LING 110  Units: 1.5  Hours: 3.0  
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.
- Subject to the “Guidelines for Ethical Conduct” and “Regulations Concerning Practica”.
- 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 towards 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, or
- permission of the department.

Grading: I, N, F
LING 180A Units: 1.5 Hours: 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 180B.

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 Units: 1.5 Hours: 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 180A, LING 180B.

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 Units: 1.5 Hours: 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 Units: 1.5 Hours: 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 Units: 1.5 Hours: 3-0
Formerly: part of 183
Field Methods for Language Preservation and Revitalization: Documentation and Recording
An examination in 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 183B.

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 Units: 1.5 Hours: 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 183C.

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 Units: 1.5 or 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/ language programs: designs, organizational patterns, materials, and media, change strategies and evaluation. Micro-teaching will provide practice in the teaching methods under study.

Prerequisite(s):
- Admission to BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization; or
- permission of the department.

LING 185 Units: 1.5 or 3.0
Indigenous Language Revitalization Practicum
A 70 or 140 hour work-study under the mentorship of an Elder or fluent speaker to develop understanding of local language preservation and revitalization issues and strategies. Focus on local language revitalization program planning and collaboration with local language workers.

Note: Subject to the “Guidelines for Ethical Conduct” and “Regulations Concerning 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 - 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 - 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 200 - 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 - 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.

Prerequisite(s): LING 100A or LING 181.

LING 204 - Developing Research Skills in Linguistics
A project-based course with emphasis on research skills used across subdisciplines in linguistics. Topics include: formulating research questions, conducting literature reviews, creating and referencing primary and secondary sources of data, recording techniques, transcription, experimental design and ethical considerations.

Recommendation(s): Recommended prior to LING 411, LING 412, LING 461, LING 486, and LING 495.

LING 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. 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 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 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 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 - 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 270 - The Evolution of Language
Explores how language evolved in the human species but not in others. Topics include whether language emerged gradually or suddenly, what its evolutionary precursors might be and what kinds of selective pressures have made language adaptive.

LING 272 - Introduction to Indigenous Languages of British Columbia
An examination of the Indigenous languages of British Columbia, focusing on unique features. Also considered are techniques for language study from written and audio materials and with elders, and the revitalization of local languages.

Note: Credit will be granted for only one of LING 272, LING 172.

LING 290 - Writing: Encoding Language
Explores the categories and unique characteristics of a sampling of ancient and modern writing systems including writing systems of Indigenous languages of Canada, focusing on primarily visual systems and on the relationship of writing to language. Examines diverse representational systems, which may include non-visual systems like Braille, textile-based systems and graffiti, in order to gain an understanding of the nature of writing. Additional topics may include origins, social context and acquisition of writing.

LING 295 - The Social Side of English Grammar
An examination of the ideal of "good grammar" and its role in society and in language learning and teaching. Topics include origins and sources of traditional ideas of "good grammar", challenges to traditional views, the role of arbiters of grammar, grammar and the changing media, (sub)cultures and grammar, and grammar and the marketplace.

Note: Credit will be granted for only one of LING 295, LING 195.

LING 297 - Introduction to Selected Topics in Linguistics
Study of sentence grammar using description, analysis, argumentation and theoretical bases of generative syntax. Develops skills of observation and analysis.

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 - Morphology
Issues and current theoretical models used to account for the generation of words. Topics will include identification and classification of morphemes, inflectional and derivational morphology, the nature of lexical representations and other components of grammar.

Note: Credit will be granted for only one of LING 309, LING 407, LING 408, LING 409.

Prerequisite(s): 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 description, analysis, argumentation and theoretical bases of generative syntax. Develops skills of observation and analysis.  
Note: Credit will be granted for only one of LING 311, LING 410A.  
Prerequisite(s): LING 203.  

LING 312  
Units: 1.5  
Hours: 3-0  
Formerly: 440  
Phonology  
Study of sound systems using description, analysis, argumentation, and the theoretical bases of generative phonology. Develops skills of observation and analysis.  
Note: Credit will be granted for only one of LING 312, LING 440.  
Prerequisite(s): LING 200.  

LING 325  
Units: 1.5  
Hours: 3-0  
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 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 345  
Units: 1.5  
Hours: 3-0  
Sign Language as Language  
Explores some common misconceptions about sign language that this course aims to dispel. Overview of linguistic research on sign language, which may include origins, structure, acquisition and issues in Deaf culture and Deaf rights.  
Note: No knowledge of ASL or Linguistics required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Credit Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LING 377</td>
<td>1.5</td>
<td>3-0</td>
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<tr>
<td><strong>Global Contexts of Language</strong></td>
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<tr>
<td>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.</td>
<td></td>
<td></td>
<td>Note: Open to students who have credit in LING 377 (if taken between September 1979 and August 1981).</td>
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</tbody>
</table>

| LING 379    | 1.5   | 3-0   |              |
| **Language and Land** |       |       |              |
| Introduces and explores the links between Indigenous languages and land. |       |       | Prerequisite(s): Admission to BEd or Diploma program in Indigenous Language Revitalization or admission to Certificate program in Aboriginal Language Revitalization. |

| LING 380    | 1.5   | 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    | 1.5   | 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 387    | 1.5   | 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    | 1.5   | 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    | 1.5   | 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    | 1.5   | 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 lexis of the different varieties; language change; socio-cultural and ideological issues associated with language spread; standardization. |       |       | |

| LING 392    | 1.5   | 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. |       |       | Prerequisite(s): 1.5 units of LING course. |

| LING 395    | 1.5   | 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): LING 400, LING 204 recommended prior to LING 395. |

| LING 396    | 1.5   | 3-0   |              |
| **Sociolinguistics 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. |       |       | Prerequisite(s): JAPA 399. |

| LING 397    | 1.5   | 3-0   |              |
| **Issues in Cross-Cultural Communication** |       |       |              |
| Explores the ways in which language is used to express and convey meaning in different cultural contexts. Topics may include: non-verbal communication and the role of body language; coded and open social signals; directing attention; rapport; and the role of body language. |       |       | |

| LING 398    | 1.5   | 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    | 1.5   | 3-0   |              |
| **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. |

| LING 403    | 1.5   | 3-0   |              |
| **Dene (Athabaskan)** |       |       |              |
| An introduction to the linguistic structures of the Dene (Athabaskan) family of languages, one of the major language families in 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. |       |       | Note: May be taken more than once for credit with permission of the department to a maximum of 3 units. |

| LING 405    | 1.5   | 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. |       |       | Notes: Credit will be granted for only one of LING 411, LING 410B. May be taken more than once for credit with permission of the department to a maximum of 3 units. |

| LING 411    | 1.5   | 3-0   |              |
| **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. |

| LING 412    | 1.5   | 3-0   |              |
| **Advanced Phonological Analysis** |       |       |              |
| Surveys current issues in the analysis of phonological phenomena with particular emphasis on contemporary theories and cross-linguistic perspectives. |       |       | Note: Credit will be granted for only one of LING 412, LING 441. |

| LING 430    | 2.0   | 3-0   |              |
| **LING 430** |       |       |              |
| Explores the role of language in social and cultural contexts. Topics include: the relationship between language and identity; language and immigration; language and social stratification; language attitudes and ideologies; and the sociolinguistic implications of language change. |       |       | Note: Credit will be granted for only one of LING 430, LING 431. May be taken more than once for credit with permission of the department to a maximum of 3 units. |

| LING 431    | 2.0   | 3-0   |              |
| **LING 431** |       |       |              |
| Explores the role of language in social and cultural contexts. Topics include: the relationship between language and identity; language and immigration; language and social stratification; language attitudes and ideologies; and the sociolinguistic implications of language change. |       |       | Note: Credit will be granted for only one of LING 430, LING 431. May be taken more than once for credit with permission of the department to a maximum of 3 units. |

| LING 415    | 2.0   | 3-0   |              |
| **LING 415** |       |       |              |
| Explores the role of language in social and cultural contexts. Topics include: the relationship between language and identity; language and immigration; language and social stratification; language attitudes and ideologies; and the sociolinguistic implications of language change. |       |       | Note: Credit will be granted for only one of LING 415, LING 416. May be taken more than once for credit with permission of the department to a maximum of 3 units. |

| LING 416    | 2.0   | 3-0   |              |
| **LING 416** |       |       |              |
| Explores the role of language in social and cultural contexts. Topics include: the relationship between language and identity; language and immigration; language and social stratification; language attitudes and ideologies; and the sociolinguistic implications of language change. |       |       | Note: Credit will be granted for only one of LING 415, LING 416. May be taken more than once for credit with permission of the department to a maximum of 3 units. |
LING 420 - LING 486

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.
Note: May be taken more than once for credit with permission of the department to a maximum of 3 units.
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
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.
- 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 LING 358, LING 359, IED 358, IED 359; 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 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.
- May not be counted toward any degree program in Linguistics or Applied Linguistics, or a Diploma in Applied Linguistics.
Prerequisite(s):
- One of LING 358, LING 359, IED 358, IED 359; 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.

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.
Pre- or Corequisite(s):
- LING 311 or LING 410A; and
- LING 312 or LING 440.
Recommendation(s): LING 204 recommended prior to LING 461.

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; aphasias 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 473  Units: 1.5  Hours: 3-0
Advanced Topics in Second Language Acquisition
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 6 units.
Prerequisite(s): LING 373 and LING 374.

LING 474  Units: 1.5  Hours: 3-0
Assessment and Testing for Instructional Purposes
Explores key conceptual and empirically based approaches in second/additional language assessment. Students learn the fundamental principles, procedures, methods, and techniques of assessing language learners’ proficiency and performance in key language domains (vocabulary, listening, speaking, reading and writing).
Prerequisite(s): LING 373 and LING 374.

LING 475  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 374 prior to 2004-2005 must consult the instructor to arrange for second language classroom observation.
Pre- or Corequisite(s):
- LING 373; and
- declared Honours or Major in Applied Linguistics; or
- permission of the department.
Grading: INP, standard grade

LING 482  Units: 1.5  Hours: 3-0
Formerly part of 481
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.

LING 486  Units: 1.5  Hours: 3-0
Formerly: 382
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 380.
Recommendation(s): LING 204 recommended prior to LING 486.
LING 495  Units: 1.5  Hours: 3-0
Language Variation and Change
An introduction to linguistic variation and its social significance, especially the quantitative study of phonological and grammatical features and their correlations with age, sex, ethnicity and other social variables. Includes field methods, quantitative methods for correlating linguistic and social variables and practice in dialect analysis based on data from the speech community.
Prerequisite(s): LING 200 and LING 203.
Recommendation(s): LING 204 recommended prior to LING-495.

LING 497  Units: 1.5  Hours: 3-0
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.

LING 499  Units: 3.0  Hours: 3-0
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 100  Units: 1.5  Hours: 3-0-1
Calculus I
Review of analytic geometry; functions and graphs, limits; derivatives; techniques and applications of differentiation, antiderivatives, the definite integral and area, logarithmic and exponential functions; Newton’s, Simpson’s and trapezoidal methods, l’Hospital’s rule.
Note: Credit will be granted for only one of MATH 100, MATH 102, MATH 109.

MATH 101  Units: 1.5  Hours: 3-0-1
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;
- permission of the department.

MATH 102  Units: 1.5  Hours: 3-0
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 109.

MATH 103  Units: 1.5  Hours: 3-0-1
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’Hospital’s rule.
Note: Credit will be granted for only one of MATH 103, MATH 101, MATH 102.

MATH 104  Units: 1.5  Hours: 3-0-1
Matrix Algebra for Engineers
Complex numbers, matrices and basic matrix operations, vectors, linear equations, determinants, eigenvalues and eigenvectors, linear dependence and independence, orthogonality.
Note: Credit will be granted for only one of MATH 104, MATH 113, MATH 211, MATH 233A.

MATH 110  Units: 1.5  Hours: 3-0-1
MATH 120  Units: 1.5  Hours: 3-0-1
Formerly: MATH 012
Precalculus Mathematics
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 109, and not intended for students who are proficient with the topics covered in Principles of Mathematics 12 or Pre-Calculus 12.

MATH 122  Units: 1.5  Hours: 3-0
Formerly: 224
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 224, CENG 245.
- Not open for credit to students with credit in any of MATH 222, MATH 422, MATH 423.

MATH 151  Units: 1.5  Hours: 3-0
Formerly: 151
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.

MATH 222, MATH 224, MATH 422, MATH 423.

Prerequisite(s): One of MATH 100, MATH 102, MATH 109, MATH 151; or
- permission of the department.

Prerequisite(s): Admission to BEng or BENG program.
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 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): 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 computation algorithms, probability, basic algebra and functions, elementary number theory, compass and straight-edge constructions, measurement topics, including length, area and volume. Problem solving is emphasized throughout.
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: 3-0-1
Calculus III
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: 3-0-1
Intermediate Calculus for CSC and ENS
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: 3-0-1
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 200, MATH 200.
• Not open to students with credit in MATH 201 or MATH 205.
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 242 Units: 1.5 Hours: 3-0
Mathematics of Finance
Simple interest; compound interest; simple discount; simple annuities; general and other annuities; amortization methods; Canadian mortgages; sinking funds; bond prices and bond yields; net present value; capitalized cost; contingent payments; introduction to the basic concept of life annuities and life insurance.
Note: Credit will be granted for only one of MATH 242, MATH 152.
Prerequisite(s):
• One of MATH 100, MATH 102, MATH 109; and
• One of MATH 151, ECON 245, STAT 260.
Recommendation(s): Some knowledge of probability recommended.

MATH 248 Units: 1.5 Hours: 3-3
Also: PHYS 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 MATH 248, PHYS 248.
Prerequisite(s):
• MATH 110 or MATH 211; and
• MATH 200; and
• CSC 110 or CSC 111.

MATH 300 Units: 1.5 Hours: 3-0
Formerly: 330A
Advanced Calculus
Notes:
• Credit will be granted for only one of MATH 300, MATH 303A, MATH 334.
• Not open for credit to students registered in or with credit in one of MATH 335, MATH 336, MATH 434.
Prerequisite(s):
• One of MATH 110, MATH 133, MATH 211, MATH 233A; and
• MATH 200 or MATH 205.

MATH 301 Units: 1.5 Hours: 3-0
Formerly: 330B
Complex Variables
Theory of functions of a complex variable, analytic functions, elementary functions, integration, power series, residue theory.
Note: Credit will be granted for only one of MATH 301, MATH 330B, MATH 338, MATH 438.
Prerequisite(s):
• MATH 200; and
• one of MATH 204, MATH 236, MATH 300, MATH 335, MATH 336.

MATH 311 Units: 1.5 Hours: 3-0
Formerly: 333C
Linear Algebra
Vector spaces and linear transformations, the canonical forms, inner product spaces and the spectral theorem.
Note: Credit will be granted for only one of MATH 311, MATH 333C.
Prerequisite(s):
• One of MATH 110, MATH 133, MATH 211, MATH 233A; and
• MATH 212 or MATH 233C.

MATH 312 Units: 1.5 Hours: 3-0
Formerly: 333A
Abstract Algebra I
Groups, rings and fields, including quotient structures.
Note: Credit will be granted for only one of MATH 312, MATH 333A.
Prerequisite(s):
• One of MATH 110, MATH 133, MATH 211, MATH 233A; and
• MATH 212 or MATH 233C; or
• permission of the department.

MATH 315 Units: 1.5 Hours: 3-0
Formerly: 415
History of Mathematics
Survey of the development of Mathematics from its earliest beginnings through to the present.
Note: Credit will be granted for only one of MATH 315, MATH 415.
Pre- or Corequisite(s): One of MATH 312, MATH 333A, MATH 362, MATH 366, MATH 368A; permission of the department.

MATH 322 Units: 1.5 Hours: 3-0
Combinatorial Designs
A study of combinatorial objects, with topics chosen from: representations and generation of permutations and combinations; Gray codes, Latin squares, factorizations of graphs, block designs and finite geometries; partially ordered sets and lattices, Boolean algebras, introduction to error correcting codes.
Prerequisite(s):
• Either MATH 122 or MATH 151 and MATH 211 or MATH 233A; and
• MATH 110 or MATH 211; and
• One of MATH 110, MATH 133, MATH 211, MATH 233A; or
• permission of the department.

MATH 335 Units: 1.5 Hours: 3-0
Real Analysis
Note: Credit will be granted for only one of MATH 335, MATH 336, MATH 434.
Prerequisite(s):
• Either MATH 122 and MATH 300, or MATH 236; and
• MATH 200 and MATH 211.

MATH 342 Units: 1.5 Hours: 3-0
Formerly: 325
Intermediate Ordinary Differential Equations
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.
Note: Credit will be granted for only one of MATH 342, MATH 323, MATH 323A, MATH 325.
Prerequisite(s):
• MATH 110 or MATH 211; and
• either MATH 200 and MATH 201, or MATH 204; or
• permission of the department.

MATH 346 Units: 1.5 Hours: 3-0
Formerly: 326
Introduction to Partial Differential Equations
Partial differential equations in physics (wave, heat and Laplace equations), solution by separation of variables, method of characteristics for first-order partial differential equations, boundary value problems, orthogonal functions, Fourier series, transform methods (Laplace and Fourier transforms), numerical methods.
Note: Credit will be granted for only one of MATH 346, MATH 323B, MATH 326.
Prerequisite(s): One of MATH 323, MATH 323A, MATH 325, MATH 342.

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 202.

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 $\mathbb{R}^n$
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
• 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 226, MATH 300, MATH 334; and
• MATH 200 or MATH 205; and
• MATH 201 or MATH 204.

MATH 399  Units: 1.5  Hours: 1.5
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, $H^p$-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 442 Units: 1.5 Hours: 3-0
Formerly: 445A
Advanced Ordinary Differential Equations
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.
Note: Credit will be granted for only one of MATH 442, MATH 445A.
Prerequisite(s):
• MATH 300 or MATH 335; and
• MATH 342; or
• permission of the department.

MATH 446 Units: 1.5 Hours: 3-0
Formerly: 445B
Advanced Partial Differential Equations
Note: Credit will be granted for only one of MATH 446, MATH 445B.
Prerequisite(s):
• One of MATH 335, MATH 336, MATH 434; and
• MATH 342; or
• permission of the department

MATH 447 Units: 1.5 Hours: 3-0
Nonlinear Programming
Introduction to theory and algorithm of nonlinear programming. Topics may include: unconstrained optimization theory and iterative methods; Lagrange multipliers and Karush-Kuhn-Tucker theorem for constrained optimization problems; convex programming and duality, penalty function methods.
Note: Credit will be granted for only one of MATH 447, MATH 491A (if taken in the same topic), MATH 492 (if taken in the same topic).
Prerequisite(s):
• MATH 110 or MATH 211; and
• one of MATH 204, MATH 236, MATH 300, MATH 335.

MATH 449 Units: 1.5 Hours: 3-0
Scientific Computing
A comprehensive introduction to the techniques and mathematical foundations of modern methods in scientific computing for science, engineering and numerical analysis. Topics include linear and non-linear systems, eigenvalue problems, approximation of functions, initial value and boundary value problems, finite volumes, finite elements, multigrid methods, convex optimization, Monte Carlo simulations, and data assimilation.
Prerequisite(s):
• MATH 348 or CSC 349A; or
• permission of the department.

MATH 451 Units: 1.5 Hours: 3-0
Probability
Language of formal probability, laws of large numbers and applications (Weierstrass approximation), central limit theorem, Borel-Cantelli laws, large deviations estimates, Chernoff bounds, number-theoretic applications, coupling of random variables, the probabilistic method (first and second moment methods), combinatorial applications. Additional topics may include: Martingales in discrete probability and applications.
Prerequisite(s):
• One of MATH 204, MATH 236, MATH 300, MATH 330A, MATH 334; and
• MATH 352 or STAT 350.

MATH 452 Units: 1.5 Hours: 3-0
Stochastic Processes
Introduction to the branch of probability theory which deals with the mathematical analysis of systems that evolve in time while undergoing chance fluctuations. Main topics include random walks, Markov chains, Poisson processes, birth and death processes, renewal theory. Examples illustrate wide applicability of stochastic processes in many branches of science and technology.
Prerequisite(s): MATH 332 or STAT 350.

MATH 462 Units: 1.5 Hours: 3-0
Topics in Number Theory
A selection of topics which may include compositions and partitions, geometry of numbers, rational approximation, distribution of primes, order of magnitude of arithmeti c functions, proofs of the Prime Number Theorem and of Dirichlet's Theorem on primes in arithmetic progressions, continued fractions.
Prerequisite(s): MATH 362.

MATH 465 Units: 1.5 Hours: 3-0
Topics in Topology
Topics chosen from point set topology, introduction to algebraic topology, classification of surfaces, homology theory, and homotopy theory.
Notes:
• May be taken more than once for credit in different topics with permission of the department.
• May be offered only in alternate years.
Prerequisite(s):
• MATH 365; and
• permission of the department.

MATH 475 Units: 1.5 Hours: 3-0
Topics in Mathematical Biology
Possible topics include population modelling, infectious disease dynamics, models of neuronal networks and models of gene regulatory networks.
Notes:
• Credit will be granted for only one of MATH 475, MATH 475S.
• 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 477 Units: 1.5 Hours: 3-0
Stochastic Financial Modelling
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.
Prerequisite(s): MATH 452.
Pre- or Corequisite(s):
• ECON 435; or
• permission of the department.

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

MATH 492 Units: 1.5 Hours: 3-0
Formerly: 491A
Topics in Applied Mathematics
Possible topics include population modelling, neural networks, stochastic processes, discrete optimization, actuarial mathematics, calculus of variations, and fluid mechanics.
Notes:
• Credit will be granted for only one of MATH 492, MATH 491A (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 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 220  Units: 1.5  Hours: 3-1.5*  -1
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, CIVE 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  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
Formerly: 435
Automatic Control Engineering
Modelling dynamic systems (linear systems and feedback
control). Transfer function based analysis and design
 transfers functions, root-locus, stability, transient responses).
Frequency characteristics design methods (frequency
responses, stability, gain and phase margins, system
compensation). State-space design methods (state
transition matrix, state feedback and shaping dynamic
responses, linear observers).
* Indicates a 3 hour laboratory taken by students on
alternate weeks.
Note: Credit will be granted for only one of MECH 380, MECH 435.
Pre- or Corequisite(s): MECH 330.

MECH 390  Units: 1.5  Hours: 3-1.5*-1
Energy Conversion
Thermal power generation, vapour and gas cycles,
refrigeration and heat pumps. Compressible flow. Non
reacting gas mixtures and psychrometrics. Reacting
mixtures, combustion. Exergy (ability to produce work) and
second law analysis.
* Indicates a 3 hour laboratory taken by students on
alternate weeks.
Prerequisite(s): MECH 240.

MECH 395  Units: 1.5  Hours: 3-1.5*-1
Heat Transfer
Heat transfer modes. Analysis of steady and transient
conduction in solids. Principles of convection: heat transfer
under laminar and turbulent flow over flat plates and around
bodies; convective heat transfer inside pipes. Thermal
radiation physics and radiation between multiple black and
grey surfaces.
* 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 modeling of solids and curved surfaces;
advanced topics in engineering drawings; use of integrated
CAD/CAE/CAM system for modelling, simulation,
engineering analyses, automated production, and parameter
optimization of mechanical designs; input and output
techniques, data management, and customization of CAD/
CAE/CAM systems.
* Indicates a 3-hour laboratory taken by students on
alternate weeks.
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,
bondes 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
Thermodynamic potentials: Maxwell relations, stability
criteria. Barometric formula: applications to clouds, solar
chimney, etc. Phase mixtures: chemical potential, osmosis,
phase equilibrium, Gibbs phase rule, phase diagrams,
fugacity and activity. Reacting mixtures: law of mass action
and applications, enthalpy and entropy constants, heat of
reaction, combustion, flames, adiabatic flame temperature,
reaction rates. Thermodynamics of fuel cells: efficiency,
causes of losses, comparison with heat engines.
Prerequisite(s): MECH 390.

MECH 444  Units: 1.5  Hours: 3-0
Wind Power Systems
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.

MECH 445  Units: 1.5  Hours: 3-0
Cryogenic Engineering
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 hydrogen liquefaction.
Regenerative cycles, magnetic refrigeration, regenerator
analysis.
Prerequisite(s): MECH 390 and MECH 395.
MECH 446 | Units: 1.5 | Hours: 3-1
Also: CIVE 446

Introduction to Ocean Engineering

Note: Credit will be granted for only one of MECH 446, MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic), MECH 450C (if taken in the same topic), MECH 450D (if taken in the same topic), MECH 450E (if taken in the same topic), MECH 450F (if taken in the same topic), CIVE 446.

Prerequisite(s): All of MECH 242, MECH 330, MECH 345, CSC 349A.

MECH 447 | Units: 1.5 | Hours: 3-0

Energy Systems
Characteristics of energy systems: evolution, energy currencies, energy sources, dynamics of energy systems. The role of storage: characteristics of storage technologies, analysis of storage impacts. Review of thermodynamic fundamentals and development of exergy balance expression. Efficiency metrics, techno-economics, issues associated with the delivery of energy services such as sustainability, emissions, cost and energy intensity.

Prerequisite(s): MECH 390 and MECH 395.

MECH 449 | Units: 1.5 | Hours: 3-0

Fuel Cell Technology
Overview and status of various fuel cell technologies. Fundamentals: fuel cell thermodynamics, electrode kinetics; performance and efficiency; transport processes. Proton Exchange Membrane Fuel Cells (PEMFCs); Solid Oxide Fuel Cells (SOFCs); Fueling issues. Fuel cell systems and applications.

Prerequisite(s): MECH 240 and MECH 345.

MECH 450A | Units: 1.5 | Hours: 3-0*

Special Topics
Presents material in an emerging field or one not covered in regular offerings. Some topics may require laboratory work as well as lectures. Entrance 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.

MECH 450B | Units: 1.5 | Hours: 3-0*

Special Topics
Presents material in an emerging field or one not covered in regular offerings. Some topics may require laboratory work as well as lectures. Entrance 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.

MECH 450C | Units: 1.5 | Hours: 3-0*

Special Topics
Presents material in an emerging field or one not covered in regular offerings. Some topics may require laboratory work as well as lectures. Entrance 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.

MECH 450D | Units: 1.5 | Hours: 3-0*

Special Topics
Presents material in an emerging field or one not covered in regular offerings. Some topics may require laboratory work as well as lectures. Entrance 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.

MECH 450E | Units: 1.5 | Hours: 3-0*

Special Topics
Presents material in an emerging field or one not covered in regular offerings. Some topics may require laboratory work as well as lectures. Entrance 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 450E, 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 450F (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.

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

MECH 450F | Units: 1.5 | Hours: 3-0*

Special Topics
Presents material in an emerging field or one not covered in regular offerings. Some topics may require laboratory work as well as lectures. Entrance 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 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: 3-1.5-1

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 applications.

Prerequisite(s): All of MECH 285, MECH 320, MECH 330, MECH 380, MECH 395, ELEC 365.
MECH 458 - Units: 1.5 - Hours: 3-1*
**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 mechatronics systems.

* Indicates a 2 hour laboratory taken by students on alternate weeks. Credit will be granted for only one of 458, 355, 456/405.

**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.

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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 modeling and simulation using advanced vehicle powertrain modeling 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):**
- CSC 349A.
- MECH 380 or ELEC 360; and
- MECH 462

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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 150, ELEC 200, ELEC 299; and
- MECH 380 or ELEC 360; and
- CSC 349A.

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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, ENT 402.

**Prerequisite(s):** STAT 254 or STAT 260.
**Pre- or Corequisite(s):** One of ECON 103C, ECON 180, ENGR 280.

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MECH 464 - Units: 1.5 - Hours: 1.5-1.5-3
Formerly: ENGR 466
**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.

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MECH 466 - Units: 1.5 - Hours: 3-1-1
**Microelectromechanical Systems**
Principles of MEMS theory, design and fabrication. Topics include: scaling law principles; micro-structural mechanisms for sensing and actuation; electrostatic, micro-thermal, piezoresistive, piezoelectric and micro-magnetic devices; micro-fluidics; micro-optics; microassembly and packaging. Case studies of MEMS device operation and microfabrication.

* Indicates four 3-hour labs.

**Prerequisite(s):**
- MECH 285 or ELEC 220; and
- ELEC 265 or PHYS 216; and
- ELEC 250.

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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.

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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 speciality steels; welding; tools and stainless steels; cast irons; superalloys; copper, aluminum, magnesium and titanium alloys; metal matrix composites.

**Prerequisite(s):** MECH 285.

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MECH 475 - Units: 1.5 - Hours: 3-1
**Aircraft Design**

**Prerequisite(s):** MECH 242 and MECH 345.

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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 immunoreactivity. Methods for combining biomaterials with cells to engineer tissues.

**Note:** Credit will be granted for only one of MECH 481, MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic), MECH 450C (if taken in the same topic), MECH 450D (if taken in the same topic), MECH 450E (if taken in the same topic), MECH 450F (if taken in the same topic), 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.

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MECH 483 - Units: 1.5 - Hours: 3-0-1
**Mechanics and Energy Conversion for Living Cells**

**Note:** Credit will be granted for only one of MECH 483, MECH 450A (if taken in the same topic), MECH 450B (if taken in the same topic), MECH 450C (if taken in the same topic), MECH 450D (if taken in the same topic), MECH 450E (if taken in the same topic), MECH 450F (if taken in the same topic).

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MECH 485 - Units: 1.5 - Hours: 3-0
**Mechanism and Manipulator Synthesis**

**Prerequisite(s):** MECH 335.
**Pre- or Corequisite(s):** CSC 349A.
### MECH 492 - MEDI 401

#### MECH 492  
**Units:** 1.5  
**Hours:** 3-0  
**Transport Phenomena**  
**Prerequisite(s):** MECH 345 and MECH 395

#### MECH 493  
**Units:** 1.5  
**Hours:** 3-0-0  
**Design of Thermo-Fluid Systems**  
An advanced design course in thermofluids systems. Groups of three or four students select project topics that involve the design of thermofluids systems such as power generation and refrigeration cycles, pump and piping systems, heat exchangers and heat exchanger networks, and air-conditioning and heating systems. Alternatively, students can propose their own projects in other areas of thermofluids systems.  
**Prerequisite(s):** MECH 345 and MECH 395

#### MECH 494  
**Units:** 1.5  
**Hours:** 3-1  
**Thermofluids and Introduction to Mass Transfer**  
**Note:** Credit will be granted for only one of MECH 494, MECH 392.  
**Prerequisite(s):** MECH 345 and MECH 395

#### MECH 495  
**Units:** 1.5  
**Hours:** 3-1  
**Computational Fluid Dynamics and Heat Transfer**  
Methods of predictions and historical perspective; governing differential equations of heat transfer and fluid flow; finite difference methods; discretization schemes; application to heat conduction problems; introduction to control volume formulation for fluid flow and to turbulence modeling; accuracy and convergence considerations. Individual term projects using a CFD program.  
**Prerequisite(s):** MECH 345 and MECH 395

#### MECH 497  
**Units:** 3.0  
**Hours:** 2-18  
**Green Vehicle Technology Project**  
General background of Hybrid Electric Vehicle (HEV) technologies; green vehicle technology training by industry experts; design using advanced modeling and simulation tools; design, analysis, prototyping and testing of vehicle sub-systems or key components for green vehicle technology development. Each student will present a complete report at the end of the term, and make an oral presentation of the findings.  
**Notes:**  
- Credit will be granted for only one of MECH 497, MECH 498, MECH 499.  
- Students who have participated in UVic EcoCAR/Green Vehicle team may request permission to register in the course.  
- May only be taken once.  
- Duration can be one or two terms.  
**Prerequisite(s):**  
- All of MECH 350, MECH 360, ENGR 002; and  
- permission of the department.  
**Grading:** INP, standard grade

#### MECH 498  
**Units:** 3.0  
**Hours:** 2-18  
**Honours Thesis**  
The honours thesis provides an opportunity for selected students to carry out a major design or research project under the supervision of a faculty member. The project will require independent study of the current technical literature, and independent research or design work. Each student will present a complete report at the end of the term, and make an oral presentation of the findings.  
**Notes:**  
- Credit will be granted for only one of MECH 498, MECH 497, MECH 499.  
- May only be taken once.  
**Prerequisite(s):**  
- ENGR 002; and  
- minimum GPA of 6.0 in all of Year 3 Mechanical Engineering courses; and  
- permission of the department.

#### MECH 499  
**Units:** 1.5  
**Hours:** 1-9  
**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 498.  
- May be taken only once.  
**Prerequisite(s):**  
- All of MECH 350, MECH 360, ENGR 002; and  
- permission of the department.

### MEDI

#### Medieval Studies

**MEDI Studies Program**

**Faculty of Humanities**

#### MEDI 100  
**Units:** 1.5  
**Hours:** 3-0  
**Entering the Middle Ages**  
A first contact with Medieval Studies organized as a thematic exploration of the Middle Ages through scholarship and through modern renderings and including guest lectures from various disciplines. Outlines both the multi-disciplinarity and the specific methodologies of the field, emphasizes academic and critical reflection on original material and encourages scholarly interpretation of modern renderings of the Middle Ages.

#### MEDI 200  
**Units:** 1.5  
**Hours:** 3-0  
**Myths and Legends of the Middle Ages**  
An introduction to selected myths and legends of the medieval world as represented in literature, art and architecture in one or more of the following traditions: Greco-Roman, Jewish, Christian, Islamic, Germanic, Celtic. Special attention given to material found in multiple traditions (e.g., stories of heroes such as Alexander, Arthur, or Morgan le Fay). May include medieval myths or the Middle Ages in film.

#### MEDI 210  
**Units:** 1.5  
**Hours:** 3-0  
**Voices from the Middle Ages**  
Medieval writers speak to us in many voices, and in many modes: male and female, ecclesiastical and secular, serious and comic or fantastic, prose and verse. A selection of medieval texts will be studied in English translation.  
**Note:** May be taken more than once for credit in different topics to a maximum of 3 units.

#### MEDI 303  
**Units:** 1.5  
**Hours:** 3-0  
**The Medieval World**  
An interdisciplinary introduction to the Middle Ages through a comparative overview of medieval cultures and civilizations until about CE 1500, with a focus on the formation of medieval Christian Europe and its relations with Judaism, Byzantine Christianity and Islam. Both material and intellectual culture (e.g., architecture, art, music, literature) will be studied.  
**Prerequisite(s):**  
- Minimum second-year standing; or  
- permission of the program.

#### MEDI 304  
**Units:** 1.5  
**Hours:** 3-0  
**Encountering the Middle Ages**  
An introduction to the interdisciplinary study of the medieval world and thus to Medieval Studies, through direct encounters with primary sources (objects, images, texts, music). Emphasizes the question of evidence in relation to interdisciplinary principles, methods and problems, involving where possible cross-cultural comparison.  
**Note:** May be taken more than once for credit in different topics with permission of the program to a maximum of 3 units.  
**Prerequisite(s):**  
- Minimum second-year standing; or  
- permission of the program.

#### MEDI 360  
**Units:** 1.5  
**Hours:** 3-0  
**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 selected topics 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 442 Units: 1.5 Hours: 3-0  
Common Grounds in European Medieval Literature  
Transcendence of national boundaries in literature and scholarship. Readings are modern English translations of Latin, Old French and Old/Middle English texts representing common foundations in various genres.  
Note: Credit will be granted for only one of MEDI 442, FRAN 452, FREN 442.

MEDI 451 Units: 1.5 Hours: 3-0  
Reading, Writing and the Book in the Medieval World  
A selective overview of the historical development of medieval media and communications practices and technology focusing especially on the manuscript book. Topics will normally include some of the following: the spread and consequences of literacy, orality and literacy, text and image, the formation of textual communities, the processes and sites of manuscript production, transmission and dissemination (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, ENGL 481 (if taken in the same topic).  
Prerequisite(s):  
- Minimum third-year standing; or  
- permission of the program.

MEDI 452 Units: 1.5 Hours: 3-0  
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 during the Sep-Dec term.  
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.

MIDS  Medical Science  
Division of Medical Sciences

MIDS 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.

MIDS 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, inappropiate 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.

MIDS 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.
MEST 320 - MRNE 410

530

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 200B.

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 200A, MICR 200B.

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: 403
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 BIOC 361; and
• MICR 303 or BIOC 360; and
• BIOC 300A and BIOC 300B.

MICR 470  Units: 1.5

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, BIOC 490A, BIOC 490B, BIOC 490D, BIOC 490E, BIOC 490F, BIOC 490G, BIOC 490H, BIOC 490I.
• A student should consult with the Director of 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, ecology, and conservation of North Pacific fishes. Laboratory and field topics include fish identification, stable isotope methodologies, database design and statistical analyses, and collecting/fishing techniques. A student field research project is required.
Notes:
• Credit will be granted for only one of MRNE 412, BIOL 431, BIOL 431A (if taken prior to May 2011).
• This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.
Prerequisite(s): BIOL 215.
Recommendation(s): BIOL 307 recommended prior to MRNE 412.

MRNE 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): All of BIOL 215, BIOL 225, BIOL 230.

MRNE 416  Units: 1.5 or 3.0
Coastal Community Ecology
Key ideas and concepts on how ecological and evolutionary forces shape natural communities. Using a hands-on approach, students explore key topics in community ecology including island biogeography, community succession, dispersal, marine terrestrial interactions, niche theory, climate change, and techniques to measure species diversity.
Note: Credit will be granted for only one of MRNE 416, MRNE 401 (if taken in the same topic), MRNE 402 (if taken in the same topic).
Prerequisite(s):
• BIOL 215; and
• STAT 253 or STAT 260.

MRNE 418  Units: 1.5 or 3.0
Marine Behavioural Ecology
The diversity of behaviours exhibited by intertidal animals. Key concepts and principles of behavioural ecology based on observations in the field. Students carry out an extensive, multi-component, group-oriented research project with a focus on marine invertebrates.
Note: Credit will be granted for only one of MRNE 418, MRNE 401 (if taken in the same topic), MRNE 402 (if taken in the same topic).
Prerequisite(s): BIOL 215.
Recommendation(s): STAT 255 or STAT 260, and a course in vertebrate or invertebrate zoology recommended prior to MRNE 418.

MRNE 420  Units: 1.5 or 3.0
Marine Phycology
A survey of the marine algae, with emphasis on the benthic forms, in the vicinity of the Bamfield Marine Sciences Centre. Includes lectures, laboratory periods, field collection, identification and observation. Emphasis will be placed on the study of living specimens in the laboratory and in the field.
Note: This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.

MRNE 421  Units: 1.5 or 3.0
Terrestrial and Freshwater Conservation
Modern theory and practice in conservation ecology as applied to terrestrial and freshwater habitats. Emphasis on field experience, supplemented by lectures including global biodiversity, ecosystem services, links between conservation and livelihoods, legislation protecting habitats and species, and local and global solutions. Independent research projects include biodiversity surveys, environmental impact assessments, and restoration techniques.
Note: Credit will be granted for only one of MRNE 421, MRNE 401 (if taken in the same topic), MRNE 402 (if taken in the same topic).
Prerequisite(s): BIOL 215.

MRNE 425  Units: 1.5
Ecological Adaptations of Seaweeds
Morphological, physiological, genetic and reproductive adaptations of seaweeds to their natural and human-altered environments.
Note: This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.
Prerequisite(s): All of BIOL 215, BIOL 225, BIOL 230.

MRNE 430  Units: 1.5 or 3.0
Marine Ecology
An analytical approach to biotic associations in the marine environment. Opportunities will be provided for study of the intertidal realm in exposed and protected areas and of beaches and estuaries in the vicinity of the Bamfield Marine Sciences Centre, plankton studies and investigations of the subtidal and benthic environments by diving and dredging are envisaged.
Notes:
• Credit will be granted for only one of MRNE 430, BIOL 406.
• This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.

MRNE 435  Units: 1.5 or 3.0
Introduction to Biological Oceanography
An introduction to the biology of the oceans, with supporting coverage of relevant physics and chemistry. Emphasis will be placed on plankton biology, community structure and life histories, and influencing environmental factors. Collections will be made from sheltered inlets, through Barkley Sound to offshore waters. Involves both field and laboratory studies of plankton organisms.
Note: This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.

MRNE 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 marine populations. Intertidal and subtidal communities will be examined, with emphasis on the biota of the Barkley Sound region.
Note: This is a field course offered at the Bamfield Marine Sciences Centre for upper level Biology credit. Please visit www.bamfieldmsc.com for more information.
Prerequisite(s): All of BIOL 215, BIOL 225, BIOL 230.

MRNE 440  Units: 1.5 or 3.0
Biology of Marine Birds
A study of the interrelationship of birds and the marine environment; the systematics and ecological relationships, behaviour, life histories, movement and conservation of marine birds; census techniques and methods of studying marine birds in the field will be treated utilizing seabirds and marine-associated birds in the Barkley Sound region. Seabird identification, classification, morphology, plumages and molt will be examined in the laboratory.
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

Music
School of Music
Faculty of Fine Arts

Courses that include instrumental or vocal instruction are available only to students registered in the BMus program. Instruction for these courses will be provided by the faculty of the School of Music.

BMus students who fail to maintain a course load of at least 9 units (12 in the case of performance majors) will be required to withdraw from any course in the MUS 140-440 (or 145-445) series in which they are registered.

MUS 101A

Units: 1.5  Hours: 3-0
Language of Music

An introduction to tonal music, including two-part species counterpoint and the basics of four-part harmony and voice leading.

Note: Students who have knowledge of the rudiments of music at a level equivalent to that of Royal Conservatory Advanced Rudiments may request permission to register in the course.

Prerequisite(s): Permission of the school.

MUS 101B

Units: 1.5  Hours: 3-0
Language of Music

A continuation of 101A, focusing on four-part harmony and voice leading, and on the analysis of simple tonal compositions.

Prerequisite(s):
• MUS 101A; or
• permission of the school.

MUS 105

Units: 2.0  Hours: 2-0
Introduction to Composition

Designed to enhance one’s understanding of and development in compositional systems, processes and techniques through written exercises and assignments related to 20th century musical idioms.

Note: Open to all students.

MUS 108

Units: 1.5  Hours: 3-0
African Hand Drumming

Hands-on introduction to African drumming and percussion. Instruments include drums, bells, shakers and xylophones. No prior playing experience necessary; all instruments are provided.

Notes:
• Credit will be granted for only one of MUS 108, MUS 208 (if taken in the same topic).
• Not open to BMus students and cannot be used as a music elective.

MUS 109

Units: 1.5  Hours: 3-0
Great Film Music

From Jaws to Jedi; Batman to Bond, Great Film Music examines the role of music in American movies from the 1930s to present day. The course will help students develop an awareness of the impact and intent of music in relation to film. Open to all students.

Note: Credit will be granted for only one of MUS 109, MUS 391 (if taken in the same topic).

MUS 111

Units: 1.5  Hours: 3-0
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.

Notes:
• Credit will be granted for only one of MUS 111, MUS 100, MUS 100A, MUS 101A, MUS 101B.
• No background in music required.

Not open to BMus students and cannot be used as a music elective.

MUS 115

Units: 3.0  Hours: 3-0
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.

Notes:
• Credit will be granted for only one of MUS 115, MUS 110, MUS 110A, MUS 110B, MUS 120A, MUS 120B, MUS 220A, MUS 220B.
• No background in music required.

Not open to BMus students and cannot be used as a music elective.

MUS 120A

Units: 1.5  Hours: 3-1
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.

Note: Credit will be granted for only one of MUS 120A, MUS 110, MUS 110A.

MUS 120B

Units: 1.5  Hours: 3-1
History of Music II

The development of Western art music from circa 1580 to circa 1770.

Note: Credit will be granted for only one of MUS 120B, MUS 110, MUS 110A.

MUS 131

Units: 1.5  Hours: 3-0
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.

Note: Credit will be granted for only one of MUS 131, ME 101.

MUS 140

Units: 2.0  Hours: 0-1
Individual Tuition

Lessons in instrument or voice.

Prerequisite(s): Admission to BMus program.

MUS 142

Units: 1.5  Hours: 3-0
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.

MUS 143

Units: 1.0  Hours: 0-5

Formerly: 141, 141A, 141B, 141C, 141D, 141E, 141F.

Individual Tuition: Secondary area

Lessons in a secondary instrument, voice, or conducting, in exceptional cases.

Note: Credit will be granted for only four of MUS 143, MUS 141, MUS 141A, MUS 141B, MUS 141C, MUS 141D, MUS 141E, MUS 141F.

Prerequisite(s): Permission of the school.

MUS 170A

Units: 0.5  Hours: 2-1

Formerly: 170.

Basic Musicianship IA

Beginning sight-singing, dictation and corresponding keyboard skills.

Note: Credit will be granted for only one of MUS 170A, MUS 170.

Corequisite(s): MUS 101A.

MUS 170B

Units: 0.5  Hours: 2-1

Formerly: 170.

Basic Musicianship IB

Continuation of MUS 170A.

Note: Credit will be granted for only one of MUS 170B, MUS 170.

Prerequisite(s): MUS 170A.

Corequisite(s): MUS 101B.

MUS 172

Units: 1.5  Hours: 1.5-0

Fundamentals of Collaborative Piano

Principles of ensemble playing for pianists.

Prerequisite(s): Admission to BMus program with principal instrument of piano.

MUS 180A

Units: 2.0  Hours: 0-5

Formerly: MUS 180.

University Orchestra

Rehearses and performs orchestral repertoire from the Baroque to the present.

Notes:
• Credit will be granted for only one of MUS 180A, MUS 180.
• Open to all students by audition.

MUS 180B

Units: 2.0  Hours: 0-5

Formerly: MUS 180.

University Wind Symphony

Rehearses and performs advanced repertoire for winds, brass and percussion.

Notes:
• Credit will be granted for only one of MUS 180B, MUS 180.
• Open to all students by audition.

MUS 180C

Units: 2.0  Hours: 0-3

Formerly: MUS 180.

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 180C, MUS 180.
• Open to all students.
MUS 180D - MUS 256B

COURSE LISTINGS MUS

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 rehearses 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 (Sonica Lab), Opera Ensemble, Brass Choir, Vocal Jazz and Collaborative Piano.

MUS 189  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 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 II
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: MUS 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  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.

Prerequisite(s): MUS 131 or ME 101.

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 220, 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 254A  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 256A  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.
MUS 270A - MUS 309

MUS 270A  Units: 0.5  Hours: 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.
Corequisite(s): MUS 201A.

MUS 270B  Units: 0.5  Hours: 2-1
Formerly: MUS 270.
Basic Musicianship IIB
A continuation of 270A.
Notes:
• Credit will be granted for only one of MUS 270B, MUS 270.
• All components must be completed in order to pass the course.
Prerequisite(s): MUS 270A.
Corequisite(s): MUS 201B.

MUS 280A  Units: 2.0  Hours: 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 280.
• Open to all students by audition.

MUS 280B  Units: 2.0  Hours: 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 280.
• Open to all students by audition.

MUS 280C  Units: 2.0  Hours: 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 280.
• Open to all students by audition.

MUS 280D  Units: 2.0  Hours: 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 280.
• Open to all students by audition.

MUS 280E  Units: 2.0  Hours: 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 280.
• Open to all students.

MUS 280F  Units: 2.0  Hours: 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 280.
• Open to all students by audition. Previous choral experience and strong music skills are required.

MUS 280G  Units: 2.0  Hours: 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 288.
• Open to all students by audition.

MUS 281  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 289  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 301A  Units: 1.5  Hours: 3-0
Language of Music
Prerequisite(s):
• MUS 101B and MUS 220B; or
• permission of the school.

MUS 301B  Units: 1.5  Hours: 3-0
Language of Music
Prerequisite(s):
• MUS 301A; or
• permission of the school.

MUS 304  Units: 2.0  Hours: 1-1
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  Units: 3.0  Hours: 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 20; and
• admission to BMus program in Composition and Theory; or
• permission of the school.

MUS 306  Units: 1.5  Hours: 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 20; or
• permission of the school.

MUS 307  Units: 1.5  Hours: 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 20; or
• permission of the school.

MUS 308  Units: 1.5  Hours: 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  Units: 1.5  Hours: 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.
### MUS 316A
**Units:** 1.5  **Hours:** 3-0  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** Credit will be granted for only one of MUS 316A, MUS 308 (if taken in the same topic). Not open to BMus students and cannot be used as a music elective.

### MUS 316B
**Units:** 1.5  **Hours:** 3-0  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** Credit will be granted for only one of MUS 316B, MUS 308 (if taken in the same topic). Not open to BMus students and cannot be used as a music elective.

### MUS 319
**Units:** 1.5  **Hours:** 3-0  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** Credit will be granted for only one of MUS 319, MUS 320 (if taken in the same topic). Open to all students.

### MUS 320
**Units:** 1.5  **Hours:** 3-0  **Formerly:** 320A, 320B, 320C  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** Credit will be granted for only two of MUS 320, MUS 320A, MUS 320B, MUS 320C. May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units. Open to all students.

### MUS 322
**Units:** 1.5 or 3.0  **Hours:** 3-0  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** May be taken more than once for credit in different topics.

### MUS 323
**Units:** 1.5 or 3.0  **Hours:** 3-0  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** May be taken more than once for credit in different topics.

### MUS 324
**Units:** 1.5 or 3.0  **Hours:** 3-0  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** Credit will be granted for only one of MUS 324, MUS 325A.

### MUS 325
**Units:** 1.5  **Hours:** 3-0  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** Credit will be granted for only one of MUS 325, MUS 325A.

### MUS 328A
**Units:** 1.5  **Hours:** 3-0  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** Credit will be granted for only one of MUS 328A, MUS 329A.

### MUS 328B
**Units:** 1.5  **Hours:** 3-0  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** Credit will be granted for only one of MUS 328B, MUS 329B.

### MUS 331
**Units:** 1.5  **Hours:** 3-0  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** Credit will be granted for only one of MUS 331, MUS 331A.

### MUS 332
**Units:** 1.5  **Hours:** 3-0  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** Credit will be granted for only one of MUS 332, MUS 332A.

### MUS 333
**Units:** 1.5  **Hours:** 3-0  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** Credit will be granted for only one of MUS 333, MUS 333A.

### MUS 334
**Units:** 1.5  **Hours:** 3-0  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** Credit will be granted for only one of MUS 334, MUS 334A.

### MUS 335
**Units:** 1.5  **Hours:** 3-0  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** Credit will be granted for only one of MUS 335, MUS 335A.

### MUS 336
**Units:** 1.5  **Hours:** 1-0  **Prerequisite(s):** MUS 101B and MUS 120A; or permission of the school.  **Note:** Credit will be granted for only one of MUS 336, MUS 336A.
MUS 347B Units: 1.5 Hours: 1.5-0
Formerly: 347.
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 improvisatory 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 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 354, MUS 464, MUS 205, MUS 355, 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 356C 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.
Recommendation(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 201B; 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 applications in music education, musical theatre, creativity in the music classroom, improvisation in the music classroom, guitar in the secondary music classroom.
Notes:
• Credit will be granted for only one of MUS 431, ME 209B.
• Offered in alternate years.
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 songs, games and dances related to the primary curriculum (grades K–2), folk and art music, plus preliminary song analysis skills and the beginning of a categorized, annotated, retrievable music collection.
Notes:
• Credit will be granted for only one of MUS 432A, ME 350, ME 400A.
• Knowledge of music rudiments equivalent to RCM Preliminary Rudiments required.
Corequisite(s): MUS 433A.

MUS 432B Units: 1.5 Hours: 3-0
Kodály Level 2: Pedagogy and Music Literature
A continued study of the Kodály-inspired concept of music education strategies and techniques for teaching rhythmic and tonal skills, elements and musical attitudes. Focused study of intermediate curriculum (grades 3–5, including older beginners in these grades); folk and art music. Continuation of song analysis skills and of the categorized, annotated and retrievable music collection.
Note: Credit will be granted for only one of MUS 432B, EDCI 487 (if taken in the same topic).
Prerequisite(s):
• MUS 432A or ME 350; and
• MUS 433A; or
• permission of the school.
Corequisite(s): MUS 433B.

MUS 432C Units: 1.5 Hours: 3-0
Kodály Level 3: Pedagogy and Music Literature
Kodály concept of music education strategies and techniques for developing rhythmic and tonal skills, elements, and musical attitudes. Focused study of curriculum beyond grade 5, plus non-school situations; folk and art music. Completion of categorized, annotated, retrievable music collection, suitable for teaching all levels.
Prerequisite(s):
• MUS 432B and MUS 433B; or
• permission of the school.
Corequisite(s): MUS 433C.

MUS 433A Units: 1.5 Hours: 3-0
Kodály Level 1: Musicianship, Conducting and Ensemble
Beginning level vocal- and aural-centred musicianship skill development, emphasizing the use of relative solmization and rhythm syllables. Includes conducting techniques and choral singing. Daily in-class performance is expected.
Notes:
• Credit will be granted for only one of MUS 433A, ME 319 (if taken prior to August 2014).
• Knowledge of music rudiments equivalent to RCM Preliminary Rudiments required.
Corequisite(s): MUS 432A.

MUS 433B Units: 1.5 Hours: 3-0
Kodály Level 2: Musicianship, Conducting and Ensemble
Intermediate level vocal- and aural-centred musicianship skill development emphasizing the use of relative solmization and rhythm syllables. Includes conducting techniques and choral singing. Daily in-class performance is expected.
Notes:
• Credit will be granted for only one of MUS 433B, EDCI 487 (if taken in the same topic).
• Students who completed ME 319 in May-Aug 2013 or May-Aug 2014 may request permission to register in the course.
Prerequisite(s):
• MUS 433A and MUS 432A; or
• permission of the school.
Corequisite(s): MUS 432B.
MUS 433C - MUS 480E

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: MUS 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: MUS 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 208B; 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 208B; 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.
Grading Projects in Music History

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.
Previous choral experience and strong music skills are required.

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 345.
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 345.
Grading: COM, F.
**NURS 360**

**Units:** 1.5  
**Professional Practice VI: Nursing Research**  
Building on Professional Practice II, III, and IV, participants will enhance their understanding of nursing scholarship and their abilities to comprehend, critique, and utilize nursing research. Participants critically reflect on various scholarly works and research methodologies. Participants experience ways to critically examine their practice in relation to nursing research and to pose research questions for evidence-informed practice.

**NURS 370**

**Units:** 4.5  
**Consolidated Practice Experience III**  
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.  
**Note:** CPE Workshops are required for College-University Transfer BSN Program students.

**Prerequisite(s):**  
- For College-University Transfer BSN Program students (Aurora College and Selkirk College only):  
- All of NURS 341, NURS 342, NURS 350, NURS 351.  
- For College-University Transfer BSN Program students (Victoria campus):  
- All of NURS 341, NURS 342, NURS 350, NURS 360.

**Grading:** COM, F.

**NURS 390**

**Units:** 1.5 or 3.0  
**Directed Studies**  
Directed readings, research projects or special studies in a specified area of interest. A proposal is developed in consultation with a faculty member and includes a plan for the evaluation of the student’s work. The proposal must receive the approval of the Director or designee before students are permitted to register.  
**Notes:**  
- May be taken more than once for credit in different topics with permission of the school to a maximum of 4.5 units.  
- Offered as resources permit.

**NURS 400**

**Units:** 1.5  
**Academic Writing for Nurses**  
Elective online credit course, gives students practice writing academic genres: summaries, analyses, arguments, abstracts and literature reviews. Students refresh grammar and APA skills and share and improve their writing through peer review and revision. Scaffolded assignments, drafting, revision, and self-reflective exercises assist students to develop writing voice and build confidence. This course is directed to undergraduate nursing students to improve academic writing.  
**Note:** Credit will be granted for only one of NURS 400, NURS 300, NURS 390 (if taken in the same topic), NURS 480 (if taken in the same topic).

**NURS 405**

**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.

**Prerequisite(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.

**Corequisite(s):**  
- For Post-diploma and College-University Transfer BSN Program students (Aurora College & Selkirk College only):  
- NURS 430.

**Grading:** COM, F.

**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 intersect with communities, organizations and health systems. Students analyze and utilize evidence-informed data to influence change, promote inter-professional collaboration to enhance continuity, address challenges and deliver safe, ethical, quality care, foster social justice, empowerment, and culturally competent practice, and provide leadership.  
**Note:** Credit will be granted for only one of NURS 456, NURS 351, NURS 431.

**Prerequisite(s):** NURS 350 and NURS 370.

**Corequisite(s):** NURS 430.

**Grading:** COM, F.
**NURS 470**  Units: 4.5
*Consolidated Practice Experience IV*
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.

**Note:** CPE Workshops are required for College-University Transfer BSN Program Students.

**Prerequisite(s):** NURS 370.

**Grading:** COM, F.

**NURS 475**  Units: 4.5
*Consolidated Practice Experience V*
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.

**Note:** CPE Workshops are required for College-University Transfer BSN Program Students.

**Prerequisite(s):**
- For College-University Transfer BSN Program students (Aurora College & Selkirk College only):
  - All of NURS 360, NURS 370, NURS 430, NURS 431.
- For College-University Transfer BSN Program students (Victoria only):
  - All of NURS 360, NURS 370, NURS 425, NURS 430, NURS 456.

**Pre- or Corequisite(s):** NURS 470.

**Grading:** COM, F.

**NURS 480**  Units: 1.5 or 3.0
*Special Topics*
Topics of current interest or concern to groups of students.

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

**NURS 481C**  Units: 1.5
*Nursing Practice in Hospice Palliative Care*
Explores nursing practice in hospice palliative care. Historical, theoretical, personal, and professional perspectives are presented for ongoing examination and analysis in relation to their impact on and guidance for nursing practice. Central to this exploration is a growing understanding of the human experience of persons living their dying and how we as nurses choose to engage with and serve hospice palliative care patients. It is our goal that, through examination of these various dimensions, students will be guided to practise with persons living their dying in ways that uphold human dignity and honour human uniqueness.

**NURS 482**  Units: 1.5
*Pharmaceutical Knowledge for Nursing Practice*
A systematic approach to develop knowledge of pharmaceutical, herbal and homeopathic interventions. Students will have opportunities to explore populations of interest and local, national, and/or global issues related to pharmaceutical interventions and marketing. Students will work collaboratively to develop and disseminate nursing knowledge.

**Note:** In the on-campus course, online work complements in-classroom instruction. In the online course, conferencing tools will be used to augment required learning activities, readings and assignments.

**NURS 483**  Units: 1.5
*Teaching and Learning in Nursing Practice*
Considers pedagogies that are consistent with a human science paradigm and health promotion perspective. In addition, students are expected to develop their unique approaches to teaching and learning within these perspectives. Focuses on pedagogical considerations involved in health promotion nursing practice.

**NURS 484**  Units: 1.5
*Nursing with Aboriginal Peoples in Canada*
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.

**NURS 487**  Units: 1.5
*Health Care Law*
Designed to allow students to develop an understanding of the origin and sources of the law as it applies to the Canadian health care system. Stimulates an appreciation for legal terminology, reasoning, and processes as well as the basic principles of law which apply to and govern the delivery of health care services in Canada. Designed to develop an ability to identify the legal aspects of health care practice, information systems and management as well as an ability to determine when and how to use legal counsel effectively.

**Note:** Credit will be granted for only one of NURS 487, HINF 330, HINF 491 (if taken in the same topic).

**NURS 488**  Units: 1.5
*Gendering Health Care Practices in Nursing*
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 relationships of power, knowledge, and society to better understand gendering health care practices in nursing.

**NURS 490**  Units: 1.5 or 3.0
*Directed Studies*
Directed readings, research projects or special studies in a specified area of interest. A proposal is developed in consultation with a faculty member and includes a plan for the evaluation of the student’s work. The proposal must receive the approval of the Director or designate before students are permitted to register.

**Notes:**
- May be taken more than once for credit in different topics with permission of the school to a maximum of 4.5 units.
- Offered as resources permit.

**NURS 491**  Units: 4.5
*Nursing Practice VIII: Transitions*
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.

**Note:** CPE Workshops are required for College-University Transfer BSN Program Students.

**Prerequisite(s):** NURS 470.

**Pre- or Corequisite(s):** NURS 475.

**Grading:** COM, F.

**NURS 493A**  Units: 1.5
*Community Health Nursing*
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 in relation to specific health issues are explored and critiqued.

**Prerequisite(s):**
- For College-University Transfer BSN Program students:
  - completion of Term 6; and
  - permission of the department.

**NURS 493C**  Units: 1.5
*Lived Experience of Health in Aging*
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.

**Prerequisite(s):**
- For College-University Transfer BSN Program students:
  - completion of Term 6; and
  - permission of the department.
### NURS 495 - PAAS 150

#### 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.

**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.

**Prerequisite(s):**

- • Limited to 25 students per section.
- •  Permission of the department.
- •  Credit will be granted for only one of PAAS 118, PAAS 110, CHIN 149.
- •  Credit will be granted for only one of PAAS 118, PAAS 110, CHIN 100A.
- •  Credit will be granted for only one of PAAS 118, PAAS 110, CHIN 100B.
- •  Credit will be granted for only one of PAAS 118, CHIN 100, CHIN 100A, CHIN 100B, CHIN 149.
- •  Credit will be granted for only one of PAAS 118, CHIN 100, CHIN 100A, CHIN 100B, CHIN 149.
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- •  Credit will be granted for only one of PAAS 118, CHIN 100, CHIN 100A, CHIN 100B, CHIN 149.
- •  Credit will be granted for only one of PAAS 118, CHIN 100, CHIN 100A, CHIN 100B, CHIN 149.

**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 100A.
- •  Limited to 25 students per section.
- •  Permission of the department.

**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.
<table>
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<th>Course Code</th>
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| **PAAS 151** | Units: 1.5 | Hours: 3-0 | Formerly: CHIN 201B
Modem Chinese Culture
A survey of Chinese culture from the mid-19th century to the present. Contemporary culture patterns will be placed in traditional perspective, while relevant political, economic and social contexts will also be considered. Emphasizing the effects of modern events on cultural life, particularly literature, the arts, religion and education system.
**Note:** Credit will be granted for only one of PAAS 151, CHIN 201, CHIN 201B.

| **PAAS 152** | Units: 1.5 | Hours: 3-0 | Essentials of Chinese Civilisation (in Chinese)
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 201A, 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 201A.

| **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.
**Pre-or Corequisite(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. Focuses on both contemporary and classic films from Japan, China, Taiwan and Indonesia.

| **PAAS 204** | Units: 1.5 | Hours: 3-0 | Also: RS 208
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 208.

| **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 | Ghosts and Spirits
Ghosts and spirits in literature, drama and cinema from the Asia-Pacific. Explores how these texts interact with philosophical and religious belief systems.

| **PAAS 208** | Units: 1.5 | Hours: 3-0 | 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 | Formerly: PACI 281
Introductory Special Topics in Pacific and Asian Studies
Introduces selected problems in Pacific Studies.
**Notes:**
- Credit will be granted for only one of PAAS 209, PACI 281 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.

| **PAAS 220** | 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 220, CHIN 220, CHIN 410.
- Not open to non-native speakers.
**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 222** | Units: 1.5 | Hours: 3-1 | Formerly: SEA 200A, half of 200
Intermediate Indonesian-Malay I
A continuation of 212 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 222, 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 225  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 practice 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 and Japan, including Confucianism, Daoism, Buddhism and Shinto.
Prerequisite(s): PAAS 204 or RS 200B.

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 200B.

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 249, 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, 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 340, 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+, JAPA 250 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+, JAPA 250 with a minimum grade of B+, JAPA 311 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 346 - Units: 1.5 - Hours: 3-0
Formerly: PAAS 344
Intermediate Japanese
A continuation of PAAS 340, aimed at a balanced development of language skills. Focuses primarily on listening, speaking, reading, and writing skills.
Note: Credit will be granted for only one of PAAS 346, PAAS 344.
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 347 - Units: 1.5 - Hours: 3-0
Formerly: PAAS 351, 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
Formerly: CHIN 304
Masterworks of Chinese Fiction
A selection from the Chinese tradition of fiction and theatre, with a focus on the great novels, short stories and dramas of 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.
PAAS 358  Units: 1.5  Hours: 3-0
Formerly: CHIN 325
Screening the Nation: Nationalism, Ideology, and Politics in Chinese Cinema
Provides a theoretical and thematic framework for the analysis of films from Mainland China from the 1930s to the present.
Note: Credit will be granted for only one of PAAS 358, CHIN 325.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

PAAS 363  Units: 1.5  Hours: 3-0
The Buddhist Tradition I
Covers the development of Indian Buddhism from a doctrinal and historical perspective, beginning with the historical Buddha (c. 500 BCE) and ending with the period of Buddhism’s first transmission to Tibet (c. 800 C.E.). Examines the philosophical perspectives found in the texts of a number of prominent schools including the Theravada, Sarvastivada, Madhyamaka and Yogacara.
Note: Credit will be granted for only one of PAAS 363, RS 303 (if taken in the same topic).

PAAS 364  Units: 1.5  Hours: 3-0
Formerly: PACI 328A
Indigenous Societies and Colonial Relations in Oceania
Studies indigenous societies and cultures of the Pacific Islands and their links to the world system. Material on Fiji, Tonga, Hawaii, New Zealand and other parts of the region provides a basis to examine classical and current issues.
Note: Credit will be granted for only one of PAAS 364, PACI 328A.
Prerequisite(s): Minimum second-year standing.

PAAS 370  Units: 1.5  Hours: 3-0
Formerly: SEA 302B
Indonesian and Pacific Literature
Explores the literatures of Indonesia and the Pacific Islands in the context of social change and popular cultural expression.
Note: Credit will be granted for only one of PAAS 370, SEA 202, SEA 302, SEA 302B.
Prerequisite(s):
• Minimum third-year standing; or
• permission of the department.

PAAS 372  Units: 1.5  Hours: 3-0
Formerly: SEA 324
Southeast Asian Cinema
A survey of trends in the cinemas of Indonesia, Thailand, the Philippines and Malaysia/Singapore.
Note: Credit will be granted for only one of PAAS 372, SEA 324.
Prerequisite(s):
• Minimum third-year standing; or
• permission of the department.

PAAS 373  Units: 1.5  Hours: 3-0
Also: THEA 328
Formerly: SEA 320
The Theatre of Indonesia
Examines trance dances, traditional puppet theatres of Java and Bali, folk theatres of Java, Bali and Sumatra and national Indonesian language-art theatre and drama.
Note: Credit will be granted for only one of PAAS 373, SEA 320, THEA 328.
Prerequisite(s):
• Minimum third-year standing; or
• permission of the department.

PAAS 380  Units: 1.5  Hours: 3-0
Formerly: PACI 321A
Japanese Economy, Politics and Culture
Examines various aspects of the history of Japan, with emphasis on the complex, changing relationship of the economy, politics, culture and ideas.
Note: Credit will be granted for only one of PAAS 380, PACI 321A.
Prerequisite(s):
• Minimum third-year standing; or
• permission of the department.

PAAS 385  Units: 1.5  Hours: 3-0
Formerly: JAPA 359
Love and Sex in Japanese Culture
A seminar on love and sex in Japan, from earliest times to the present day. Readings include fiction, drama and poetry.
Note: Credit will be granted for only one of PAAS 385, JAPA 359 (if taken in the same topic).
Prerequisite(s):
• Minimum third-year standing; or
• permission of the department.

PAAS 386  Units: 1.5  Hours: 3-0
Formerly: JAPA 302A and 302B
Pre-modern Japanese Literature in Translation
Surveys through materials in English translation Japanese literature from the earliest times to the eve of the Meiji Restoration. Major literary trends will be examined including poetry, literary diaries, zuihitsu, Noh drama, puppet theatre and popular fiction.
Note: Credit will be granted for only one of PAAS 386, JAPA 302A, JAPA 302B.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

PAAS 388  Units: 1.5  Hours: 3-0
Formerly: JAPA 303A and 303B
Modern Japanese Literature in Translation
Japanese literature from the Meiji Restoration to the present day in English translation. Focuses on thematic and stylistic developments of various genres of Japanese literature.
Note: Credit will be granted for only one of PAAS 388, JAPA 302A, JAPA 303A, JAPA 303B.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

PAAS 393  Units: 1.5  Hours: 3-0
Formerly: JAPA 324A
Humanism in Japanese Cinema to the 1960s
Humanism and Existentialism as sources of social critique in post-war Japanese film, through the late 1960s.
Note: Credit will be granted for only one of PAAS 393, JAPA 324A.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

PAAS 394  Units: 1.5  Hours: 3-0
Also: THEA 312
Formerly: JAPA 320A
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 PAAS 394, JAPA 320A, THEA 312.
Prerequisite(s):
• Minimum second-year standing; or
• permission of the department.

PAAS 397  Units: 1.5 or 3.0
Field School in Pacific and Asian Studies
Opportunity for students from PAAS and the broader university community to gain direct, thematic research experience in Asia.
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 6 units.

PAAS 398  Units: 1.5  Hours: 3-0
Asia-Pacific Experience Research Project
The academic component for students in an exchange, study abroad term, co-op placement or internship in the Asia-Pacific region. Students create a research and analysis project based on their exchange experience, aspects of which are determined in advance in consultation with a departmental instructor.
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 4.5 units.

PAAS 399  Units: 1.5  Hours: 3-0
Formerly: LING 396
Also: LING 396
Formerly: JAPA 396
Sociolinguistic Issues in Japanese
Examines the Japanese language in its social context. A wide range of sociolinguistic topics will be covered, including non-verbal communication and types of Japanese spoken outside of Japan. Attention will be given to linguistic, dialectal, and stylistic variation in speech communities, and to sociolinguistic considerations such as class, gender, and social setting.
Note: Credit will be granted for only one of PAAS 399, JAPA 396, LING 396.
Prerequisite(s): Minimum second-year standing.
PAAS 400 - PAAS 430

PAAS 400  Units: 1.5  Hours: 3-0
Formerly: PACI 490A, half of 490
Advanced Research Seminar
Leads to the research and writing of a major paper on a theme relevant to the Asia-Pacific.
Note: Credit will be granted for only one of PAAS 400, PACI 490A.
Prerequisite(s): One of PAAS 300, PAAS 301, PAAS 302, PAAS 304, PACI 325, PACI 390, PACI 392.

PAAS 403  Units: 1.5  Hours: 3-0
Capitalist Economy and the Asia-Pacific
Examines the current situation of the Asia-Pacific under the rubric of globalization with an emphasis on the changing nature of capitalist economy as well as relevant theories.
Prerequisite(s): Minimum third-year standing.

PAAS 404  Units: 1.5  Hours: 3-0
Asian Horror Cinema
Examines Asian horror cinema as a reaction/response to social change and trauma through representative works from China, Hong Kong, Japan, Korea, Taiwan and/or Thailand.
Note: No knowledge of Asian languages required.
Prerequisite(s): Minimum third-year standing, or permission of the department.

PAAS 406  Units: 1.5  Hours: 3-0
Ideology and Cultural Conflict in the Asia-Pacific
Examines cultural conflict in literature, theatre, film, music and graphic arts.
Prerequisite(s): Minimum third-year standing, or permission of the department.

PAAS 409  Units: 1.5  Hours: 3-0
Globalization, Cosmopolitanism and Asian-Pacific Cultures
Explores the ways in which cultural writers, filmmakers and popular musicians in the Asia-Pacific region attempt to make sense of their worlds and construct identities in literature, film and songs.
Prerequisite(s): Minimum third-year standing, or permission of the department.

PAAS 410  Units: 3.0  Hours: 3-0
Formerly: CHIN 420
Advanced Mandarin for Native Speakers of Chinese
Intended for literate speakers of Chinese. Reading and discussion from the Chinese literary and cultural traditions.
Notes:
- Credit will be granted for only one of PAAS 410, CHIN 420 (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department to a maximum of 6 units.
- Not open to non-native speakers.
Prerequisite(s): Minimum third-year standing, or permission of the department.

PAAS 411  Units: 1.5 or 3
Formerly: CHIN 480
Directed Readings in Chinese Language
Extensive readings chosen in consultation with the instructor.
Notes:
- Credit will be granted for only one of PAAS 411, CHIN 480 (if taken in the same topic).
- May be taken more than once for credit with permission of the department.
- Not open to native speakers of Chinese.
Prerequisite(s):
- PAAS 311 with a minimum grade of A- or CHIN 349B with a minimum grade of A-; or
- permission of the department.

PAAS 412  Units: 1.5  Hours: 3-0
Formerly: 310, half of CHIN 349, 349A
Understanding Chinese Media
Develops students’ proficiency in the language of Chinese online media, newspapers, magazines, film, and television, through exercises in reading and listening comprehension. Students will also refine translation skills.
Notes:
- Credit will be granted for only one of PAAS 412, PAAS 310, CHIN 349, CHIN 349A, CHIN 400.
- Not open to native speakers.
Prerequisite(s):
- One of PAAS 310 with a minimum grade of B, PAAS 311 with a minimum grade of B, PAAS 318 with a minimum grade of B, CHIN 249 with a minimum grade of B, CHIN 249B with a minimum grade of B; or
- permission of the department.

PAAS 413  Units: 1.5  Hours: 3-0
Formerly: 311, half of CHIN 349, 349B
Effective Communication in Chinese
Advances students’ abilities in communication in Chinese, both oral (including everyday conversation, work-related discussions, and formal presentations) and written (including reports and correspondence).
Notes:
- Credit will be granted for only one of PAAS 413, PAAS 311, CHIN 349, CHIN 349B, CHIN 400.
- Not open to native speakers.
Prerequisite(s):
- One of PAAS 210 with a minimum grade of B, PAAS 211 with a minimum grade of B, PAAS 318 with a minimum grade of B, CHIN 249 with a minimum grade of B, CHIN 249B with a minimum grade of B; or
- permission of the department.

PAAS 414  Units: 1.5  Hours: 3-0
Formerly: 312, CHIN 310A
Classical Chinese Prose
Introduces the key features of grammar, syntax and usage of literary Chinese, employing intensive study of a set of readings in the language. Readings will be of literary texts ranging from pre-Han to the Song dynasty.
Note: Credit will be granted for only one of PAAS 414, PAAS 312, CHIN 310A.
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 415  Units: 1.5  Hours: 3-0
Chinese Narrative
Studies traditional Chinese narrative literature through reading of early historiographic writing, narrative poetry, poetic history, ancient-style prose, drama, novel and fiction. Traditional Chinese narrative theory is introduced.
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 416  Units: 1.5  Hours: 3-0
Formerly: JAPA 403A, JAPA 403B
Seminar in Modern Japanese Literature
Intended for advanced students prepared to read literary texts in modern Japanese. Course content may include contemporary fiction, drama and/or poetry, and may vary from year to year. May be taken by native speakers.
Notes:
- Credit will be granted for only one of PAAS 416, JAPA 403A (if taken in the same topic), JAPA 403B (if taken in the same topic).
- May be taken more than once for credit in different topics with permission of the department.
Pre- or Corequisite(s):
- One of PAAS 331 with a minimum grade of A-, PAAS 332 with a minimum grade of A-, PAAS 341 with a minimum grade of A-, PAAS 342 with a minimum grade of A-, JAPA 312 with a minimum grade of A-; JAPA 313 with a minimum grade of A-; or permission of the department.
PAAS 432  Units: 1.5 or 3.0
Formerly: JAPA 480
Directed Readings in Japanese
Designed for advanced students prepared to read extensively in Japanese. Readings will be assigned by the instructor in consultation with the participating students.
Notes:
• Credit will be granted for only one of PAAS 432, JAPA 480 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department.
Pre-requisite(s): One of PAAS 331 with a minimum grade of A-, PAAS 332 with a minimum grade of A-, PAAS 341 with a minimum grade of A-, PAAS 342 with a minimum grade of A-, JAPA 312 with a minimum grade of A-, JAPA 313 with a minimum grade of A; or permission of the department.

PAAS 451  Units: 1.5  Hours: 3-0
Asian Mega-Cities and Urban Regions
A comparative multi-disciplinary survey of urban transition in Asia. Several case studies introduce patterns and processes which challenge conventional theories of urbanization, and highlight implications for the future of urban societies in Asia.
Pre-requisite(s):
• Minimum third-year standing; or
• permission of the department.

PAAS 455  Units: 1.5  Hours: 3-0
Formerly: CHIN 307
Authors in Contemporary Chinese Literature
A study of works of fiction, drama and/or film on a single topic or by a single major figure from the 20th and 21st centuries. Chinese and English versions of all primary texts are available.
Note: Credit will be granted for only one of PAAS 455, CHIN 461.
Pre-requisite(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.
Pre-requisite(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.
Pre-requisite(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 histionography on a single theme from earliest times to the Qing Dynasty. Readings are in Chinese.
Pre-requisite(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.
Note: Credit will be granted for only one of PAAS 459, CHIN 461.
Pre-requisite(s):
• For non-native speakers:
  • PAAS 318; or
  • permission of the department.
• For native speakers:
  • No prerequisites.

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.
Pre-requisite(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.
Pre-requisite(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.
Pre-requisite(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.
Pre-requisite(s):
• Minimum third-year standing; or
• permission of the department.

PAAS 480  Units: 1.5  Hours: 3-0
Formerly: PACI 422
Seminar on Japan
Note: Credit will be granted for only one of PAAS 480, PACI 422.
Pre-requisite(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.
Pre-requisite(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.
Notes:
• Credit will be granted for only one of PAAS 485, JAPA 358 (if taken in the same topic).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
Pre-requisite(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 shinpa, 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).
Pre-requisite(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.
Pre-requisite(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 200B; 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.
Prerequisite(s):
• PAAS 400 or PACI 490A; and
• declared Honours in Pacific and Asian Studies.

PHIL 100 Units: 3.0 Hours: 3-0
Introduction to Philosophy
Central works in the history of Western philosophy, with a principal goal of fostering the capacity to think logically and critically. Questions will include: Does God exist? Is knowledge possible? Do humans have free will? What is justice? Figures studied may include: Plato, Aristotle, Descartes, Leibniz, Berkeley, Hume, Kant, Mill and Nietzsche.

PHIL 173 Units: 1.5 Hours: 3-0
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 207A 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 225  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 assisted suicide and euthanasia.

Note: Credit will be granted for only one of 225, 290 (if taken as section A01 in Sep-Dec 2008, section A01 in Sep-Dec 2010, section A01 in Sep-Dec 2011, or as section A02 in Jan-Apr 2014, or as section A01 in Jan-Apr 2016, or as section A01 in Sep-Dec 2016).

PHIL 226  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 228  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 229  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.

Note: Consult annual Departmental Handbook for details in any given year.

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?

Note: Credit will be granted for only one of PHIL 240, PHIL 242.

PHIL 251  Units: 1.5  Hours: 3-0 or 2-0-1
Knowledge, Certainty and Skepticism
An introduction to central concepts, issues and theories in epistemology (the theory of knowledge). Topics will be drawn from the following list: knowledge; skepticism; evidence; rational belief; doubt; justification; certainty.

Note: Credit will be granted for only one of PHIL 251, PHIL 250.

PHIL 252  Units: 1.5  Hours: 3-0 or 2-1
Introduction to Metaphysics
An investigation of the ultimate nature of reality. Historical and contemporary writings deal with such topics as: substance; monism vs. pluralism; universals vs. particulars; realism vs. nominalism; mind and matter; God; causation and change; possibility and necessity; space and time.

Note: Credit will be granted for only one of PHIL 252, PHIL 250.

PHIL 256  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?

Note: Credit will be granted for only one of PHIL 256, PHIL 260.

PHIL 260  Units: 1.5  Hours: 3-0
Philosophy of Religion
A consideration of some of the conclusions that have emerged from a philosophical examination of such religious questions as: the existence of God; survival after death; the problem of evil; the significance of religious ignorance, etc. Class discussion will be much emphasized.

Note: Credit will be granted for only one of PHIL 260, PHIL 214.

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.

Note: Credit will be granted for only one of PHIL 261, PHIL 214.

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.

Note: Credit will be granted for only one of PHIL 301, PHIL 421.

Prerequisite(s):
•  4.5 units of PHIL courses; or
•  permission of the department.

PHIL 303  Units: 1.5  Hours: 3-0
Aristotle
A study of one or more of the philosophical writings of Aristotle.

Note: Credit will be granted for only one of PHIL 303, PHIL 422.

Prerequisite(s):
•  4.5 units of PHIL courses; or
•  permission of the department.

PHIL 305  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 and Jewish traditions from the 5th to the 12th century CE.

Note: Credit will be granted for only one of PHIL 305A, PHIL 245, PHIL 305.

Prerequisite(s):
•  4.5 units of PHIL courses; or
•  permission of the department.

PHIL 305B  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.

Note: Credit will be granted for only one of PHIL 305B, PHIL 245, PHIL 305.

Prerequisite(s):
•  4.5 units of PHIL courses; or
•  permission of the department.

Recommendation(s): PHIL 305A recommended prior to PHIL 305B

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.

Prerequisite(s):
•  4.5 units of PHIL courses; or
•  permission of the department.

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.

Note: Credit will be granted for only one of PHIL 308, PHIL 310.

Prerequisite(s):
•  4.5 units of PHIL courses; or
•  permission of the department.
PHIL 309  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.
Note: Credit will be granted for only one of PHIL 309, PHIL 310.
Prerequisite(s):
  • PHIL 306 or PHIL 308; or
  • permission of the department.
Recommendation(s): PHIL 308 recommended prior to PHIL 309.

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.
Prerequisite(s):
  • PHIL 211; or
  • permission of the department.

PHIL 314  Units: 1.5  Hours: 3-0
19th-Century Philosophy
An examination of one or more figures or themes in 19th-century Philosophy.
Prerequisite(s):
  • 4.5 units of PHIL courses; or
  • permission of the department.

PHIL 316  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.
Prerequisite(s):
  • Minimum second-year standing; or
  • permission of the department.

PHIL 333  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 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 334  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.

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.

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 335, PHIL 302.
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.
Prerequisite(s):
  • PHIL 232; or
  • permission of the department.

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):
  • 4.5 units of PHIL courses; 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 340  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.
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<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
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| PHIL 356 | 1.5 | 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):**
1. 4.5 units of PHIL courses; or
2. permission of the department.

| PHIL 358 | 1.5 | 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):**
1. 4.5 units of PHIL courses; or
2. permission of the department.

| PHIL 362 | 1.5 | 3-0 | Philosophy of Mind
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)? |

**Note:** Credit will be granted for only one of PHIL 362, PHIL 342A.

**Prerequisite(s):**
1. 4.5 units of PHIL courses; or
2. permission of the department.

| PHIL 370 | 1.5 | 3-0 | Theoretical Logic
Treatment and justification of formal logic from a theoretical point of view: ideal formal languages developed, and their relationship to natural languages discussed. Syntactic and semantic theories formalized for the analysis of complex deductive arguments. The meta-theory of formal logic, relating the syntactic theories and the semantic theories, developed. Topics may include consistency, compactness, soundness and completeness. |

**Note:** Credit will be granted for only one of PHIL 370, PHIL 304A.

**Prerequisite(s):**
1. PHIL 203 or MATH 122; or
2. permission of the department.

| PHIL 371 | 1.5 | 3-0 | Logic
Studies a particular branch of formal logic. Topics may include set theory, incompleteness and undecidability, modal or other non-classical logics. |

**Note:** Credit will be granted for only one of PHIL 371, PHIL 304B.

**Prerequisite(s):**
1. PHIL 370; or
2. permission of the department.

| PHIL 375 | 1.5 | 3-0 | Philosophy of Mathematics
Introduces problems in the philosophy of mathematics. Topics may include the nature of mathematical objects, the status of the infinite in mathematics, the relationship between mathematics and natural science/physical reality. |

**Note:** Credit will be granted for only one of PHIL 375, MATH 375.

**Prerequisite(s):**
1. One of PHIL 203, PHIL 304A, PHIL 370, MATH 122, MATH 360.

| PHIL 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:**
1. Credit will be granted for only one of PHIL 379, PHIL 381, GRS 379, GRS 380, CLAS 379.
2. Does not presuppose a background in either Greek and Roman studies or Philosophy.

**Recommendation(s):**
1. Minimum third-year standing recommended.

| PHIL 383 | 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 PHIL 383, GRS 380, CLAS 380.

**Recommendation(s):**
1. Minimum third-year standing recommended.

| PHIL 390 | 1.5-3.0 | 3-0 | Topics in Philosophy
Investigations of a selected philosophical topic. |

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

**Prerequisite(s):**
1. 6 units of PHIL courses; or
2. permission of the department.

| PHIL 391 | 1.5 or 3.0 | 3-0 | Directed Studies in Philosophy
Under the supervision of a faculty member and with the approval of the Chair of the department. |

**Note:** Credit will be granted for only one of PHIL 391, PHIL 348 (if taken in the same topic).

**Prerequisite(s):**
1. 4.5 units of PHIL courses; or
2. permission of the department.

| PHIL 420 | 1.5 | 3-0 | Advanced Topics in Philosophy of Science
Investigation of the methodology, epistemology and ontology of science. Topics may include the logic of explanation, the logic of confirmation, the rationality of theory acceptance, the rationality of scientific revolutions, the unity of science, or the reality of theoretical entities. |

**Note:** Credit will be granted for only one of PHIL 420, PHIL 222A, PHIL 320.

**Prerequisite(s):**
1. PHIL 356 or
2. permission of the department.

| PHIL 424 | 1.5 | 3-0 | Advanced Studies in Ancient Philosophy
Investigation of central figures and/or topics in ancient philosophy. Philosophical figures in the ancient world from the time of the pre-Socratics through to the Hellenistic and Neo-Platonic schools may be considered. Topics may include the nature of reality, theories of truth, ethical theories, psychological issues, political theory, or issues in logic and theories of meaning. |

**Prerequisite(s):**
1. One of PHIL 301, PHIL 303, PHIL 307; or
2. permission of the department.

| PHIL 425 | 1.5 | 3-0 | Advanced Studies in Plato
Investigation of problems and topics in the philosophy of Plato including questions, issues and controversies related to Plato’s metaphysics, epistemology, ethics, political philosophy, moral psychology, cosmology, or his theories of language and perception. May also include Plato’s influence on successors in ancient philosophy. |

**Prerequisite(s):**
1. One of PHIL 301, PHIL 303, PHIL 307; or
2. permission of the department.

| PHIL 426 | 1.5 | 3-0 | Major Figures in Ancient Philosophy
Investigation of one or more major figures in ancient philosophy. |

**Note:** Credit will be granted for only one of PHIL 426, PHIL 490 (if taken in the same topic).

**Prerequisite(s):**
1. One of PHIL 301, PHIL 303, PHIL 307; or
2. permission of the department.

| PHIL 427 | 1.5 | 3-0 | Advanced Studies in Early Modern Philosophy
Investigation of a central topic or major figure in the early modern period of philosophy (1500-1799). |

**Note:** Credit will be granted for only one of PHIL 427, PHIL 490 (if taken in the same topic).

**Prerequisite(s):**
1. One of PHIL 306, PHIL 308, PHIL 309; or
2. permission of the department.
PHIL 428 Units: 1.5 Hours: 3-0
Advanced Social and Political Philosophy
Investigation of problems in contemporary social and political philosophy. Topics may include: theories of distributive justice, the relationship between law and morality, theories of democracy, the nature of rights, liberty, political legitimacy, community and culture, interrelationships among forms of economic, class, racial and gender oppression.
Prerequisite(s):
• One of PHIL 335, PHIL 336, PHIL 339; or
• permission of the department.

PHIL 429 Units: 1.5 Hours: 3-0
Advanced Studies in Rationalism and the Enlightenment
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.
Note: Credit will be granted for only one of PHIL 428, PHIL 490 (if taken in the same topic).
Prerequisite(s):
• One of PHIL 306, PHIL 308, PHIL 309; or
• permission of the department.

PHIL 430 Units: 1.5 Hours: 3-0
Advanced Biomedical Ethics
Investigation of issues in the philosophy of law. Topics may include: the relationship between law and morality, the nature and foundations of legal obligation; theories of international law; theories of human rights; the relationship between international law and global justice.
Note: Credit will be granted for only one of PHIL 436, PHIL 490 (if taken in the same topic).
Prerequisite(s):
• PHIL 336 or PHIL 339; or
• permission of the department.

PHIL 431 Units: 1.5 Hours: 3-0
Advanced Aesthetics
Investigation of issues in the philosophy of art. Topics may include art and ethics, philosophy of music, philosophy of literature, interpretation of artworks and ontology of artworks.
Prerequisite(s):
• PHIL 240; and
• 1.5 units of 300- or 400-level PHIL courses; or
• permission of the department.

PHIL 432 Units: 1.5 Hours: 3-0
Investigation of contemporary issues in metaphysics.
Note: Credit will be granted for only one of PHIL 450, PHIL 432.
Prerequisite(s):
• PHIL 332; or
• permission of the department.

PHIL 433 Units: 1.5 Hours: 3-0
Advanced Social and Political Philosophy
Investigation of problems in contemporary social and political philosophy. Topics may include: theories of distributive justice, the relationship between law and morality, theories of democracy, the nature of rights, liberty, political legitimacy, community and culture, interrelationships among forms of economic, class, racial and gender oppression.
Prerequisite(s):
• One of PHIL 335, PHIL 336, PHIL 339; or
• permission of the department.

PHIL 434 Units: 1.5 Hours: 3-0
Investigation of concepts, arguments and theories advanced by such central figures as David Hume and his contemporary Thomas Reid. Topics may include knowledge, probability, causation, skepticism, certainty, reason, universals, free will, language and communication, justice and morals.
Note: Credit will be granted for only one of PHIL 429, PHIL 490 (if taken in the same topic).
Prerequisite(s):
• One of PHIL 306, PHIL 308, PHIL 309; or
• permission of the department.

PHIL 435 Units: 1.5 Hours: 3-0
Advanced Ethics
An advanced investigation of contemporary debates in ethical theory, including issues in normative ethics and metaethics.
Prerequisite(s):
• One of PHIL 335, PHIL 337, PHIL 338; or
• permission of the department.

PHIL 436 Units: 1.5 Hours: 3-0
Advanced Philosophy of Law
Investigation of contemporary issues in the philosophy of law. Topics may include: the relationship between law and morality, the nature and foundations of legal obligation; theories of international law; theories of human rights; the relationship between international law and global justice.
Note: Credit will be granted for only one of PHIL 436, PHIL 490 (if taken in the same topic).
Prerequisite(s):
• PHIL 336 or PHIL 339; or
• permission of the department.

PHIL 437 Units: 1.5 Hours: 3-0
An advanced investigation of selected topics in biomedical ethics. Content will vary, but will usually include such topics as informed consent, experimentation, professional/client and professional/professional relationship, allocation of resources, administrative procedures, etc. Methodology will include the use of video tape role plays and student presentation/analysis.
Prerequisite(s):
• PHIL 331; or
• permission of the department.

PHIL 438 Units: 1.5 Hours: 3-0
Advanced Theory of Perception
A study of philosophical issues that pertain both to the psychology of perception and the theory of knowledge. The respective merits of realist, representationalist and phenomenalist theories of perception will come under examination.
Note: Credit will be granted for only one of PHIL 453, PHIL 418.
Prerequisite(s):
• 9 units of PHIL courses; or
• permission of the department.

PHIL 439 Units: 1.5 Hours: 3-0
Advanced Studies in Scottish Philosophy
Investigation of the concepts, arguments and theories advanced by such central figures as David Hume and his contemporary Thomas Reid. Topics may include knowledge, probability, causation, skepticism, certainty, reason, universals, free will, language and communication, justice and morals.
Note: Credit will be granted for only one of PHIL 429, PHIL 490 (if taken in the same topic).
Prerequisite(s):
• One of PHIL 306, PHIL 308, PHIL 309; or
• permission of the department.

PHIL 440 Units: 1.5 Hours: 3-0
Advanced Aesthetics
Investigation of issues in the philosophy of art. Topics may include art and ethics, philosophy of music, philosophy of literature, interpretation of artworks and ontology of artworks.
Prerequisite(s):
• PHIL 240; and
• 1.5 units of 300- or 400-level PHIL courses; or
• permission of the department.

PHIL 441 Units: 1.5 Hours: 3-0
Formerly: 416
Advanced Epistemology
An advanced philosophical investigation of human knowledge and its relation to reality.
Note: Credit will be granted for only one of PHIL 451, PHIL 442.
Prerequisite(s):
• PHIL 335; or
• permission of the department.

PHIL 442 Units: 1.5 Hours: 3-0
Formerly: part of 461
Advanced Philosophy of Language
Investigation of contemporary issues in philosophy of language. Topics may include truth, meaning and reference. Authors may include Frege, Wittgenstein, Quine, Davidson, Dummett, Kripke, Putnam and Tarski.
Note: Credit will be granted for only one of PHIL 462, PHIL 334, PHIL 461.
Prerequisite(s):
• PHIL 316 or PHIL 334; or
• permission of the department.

PHIL 443 Units: 1.5 Hours: 3-0
Advanced Ethics
An advanced investigation of contemporary debates in ethical theory, including issues in normative ethics and metaethics.
Prerequisite(s):
• One of PHIL 335, PHIL 337, PHIL 338; or
• permission of the department.

PHIL 444 Units: 1.5 Hours: 3-0
Advanced Studies in Rationalism and the Enlightenment
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.
Note: Credit will be granted for only one of PHIL 428, PHIL 490 (if taken in the same topic).
Prerequisite(s):
• One of PHIL 306, PHIL 308, PHIL 309; or
• permission of the department.

PHIL 445 Units: 1.5 Hours: 3-0
Advanced Metaphysics
Investigation of contemporary issues in metaphysics.
Note: Credit will be granted for only one of PHIL 450, PHIL 432.
Prerequisite(s):
• PHIL 352; or
• permission of the department.

PHIL 446 Units: 1.5 Hours: 3-0
Advanced Topics in Philosophy
Advanced investigations of a selected philosophical topic.
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s):
• 3 units of 300- or 400-level PHIL courses; or
• permission of the department.

PHIL 447 Units: 1.5 or 3.0 Hours: 3-0
Directed Studies in Philosophical Topics
Under the supervision of a faculty member and with the approval of the Chair of the department.
Note: Credit will be granted for only one of PHIL 491, PHIL 448 (if taken in the same topic).
Prerequisite(s):
• 3 units of 300- or 400-level PHIL courses; or
• permission of the department.

PHYS 102A Units: 1.5 Hours: 3-0
Introductory algebra-based mechanics. Life Science Physics
Formerly: PHYS 110, PHYS 112, PHYS 120, PHYS 122
Note: Credit will be granted for only one of PHYS 102A, PHYS 102.
Prerequisite(s):
• One of MATH 100, MATH 102, MATH 109 recommended prior to or in conjunction with PHYS 102A.

PHYS 102A Units: 1.5 Hours: 3-0
Introductory algebra-based mechanics. Life Science Physics
Formerly: PHYS 110, PHYS 112, PHYS 120, PHYS 122
Note: Credit will be granted for only one of PHYS 102A, PHYS 102.
Prerequisite(s):
• One of MATH 100, MATH 102, MATH 109 recommended prior to or in conjunction with PHYS 102A.

PHYS 102A Units: 1.5 Hours: 3-0
Introductory algebra-based mechanics. Life Science Physics
Formerly: PHYS 110, PHYS 112, PHYS 120, PHYS 122
Note: Credit will be granted for only one of PHYS 102A, PHYS 102.
Prerequisite(s):
• One of MATH 100, MATH 102, MATH 109 recommended prior to or in conjunction with PHYS 102A.
PHYS 102B - PHYS 290

PHYS 102B  Units: 1.5  Hours: 3-3
Formerly: part of PHYS 102

General Physics II
Introductory algebra-based survey of physics including heat, sound, wave motion, light, electricity, magnetism, and modern physics. Life Science applications.
Note: Not open for credit to students registered in or with credit in any of PHYS 102, PHYS 111, PHYS 112, PHYS 125, PHYS 130.
Prerequisite(s): PHYS 110.
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.
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
Introduction to 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.

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 280  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): 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
Formerly: 428
Solid State Physics I
Physics of solids including crystal structure and symmetry, thermal, electrical, elastic, and optical properties of solids.

Note: Credit will be granted for only one of PHYS 328, PHYS 428.

Pre- or Corequisite(s): All of PHYS 323, PHYS 326, PHYS 328.

PHYS 340 • Units: 1.5 • Hours: 3-0-1
Also: EOS 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 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: 424, CSC 424
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 - POLI 211

PHYS 423 Units: 1.5 Hours: 3-0
Quantum Mechanics II
Further development of the theory and applications, angular momentum, linear vector spaces, perturbation theory, scattering.
Note: Intended for Honours students.
Prerequisite(s): All of PHYS 321A, PHYS 323, MATH 301, MATH 346.

PHYS 424 Units: 1.5 Hours: 3-0
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.
Prerequisite(s):
• PHYS 423; or
• permission of the department.

PHYS 425 Units: 1.5 Hours: 2-3
Topics in Electronics Instrumentation
Applications of electronics in physics instrumentation.
Prerequisite(s):
• PHYS 214 and PHYS 216; and
• one of MATH 301, MATH 330B, MATH 438.

PHYS 426 Units: 1.5 Hours: 3-1
Fluid Mechanics
Flow kinematics, vorticity, the Navier-Stokes equations, Bernoulli's theorem, irrotational flow, viscous flow, dynamic similarity. Application to aerodynamics, water waves, low Reynolds number (very viscous) flow and other selected topics.
Prerequisite(s): PHYS 217 and PHYS 321A.
Pre- or Corequisite(s): MATH 346.

PHYS 427 Units: 1.5 Hours: 3-0
Also: EOS 427
Geophysics
Principles of seismology, gravity, geomagnetism, heat flow, and how they contribute to our understanding of whole Earth structure and plate tectonics.
Notes:
• Credit will be granted for only one of PHYS 427, EOS 427.
• Normally offered in alternate years.
Students are advised to consult the department to determine when the course is offered.
Prerequisite(s): PHYS 321A and PHYS 326.
Pre- or Corequisite(s): MATH 346.

PHYS 429A Units: 1.5 Hours: 0-3
Honours Laboratory
Introduction to research, with several research-oriented experiments and with instruction on experimental techniques and theory of measurement.
Note: Normally open only to fourth-year Honours students, others by permission of the department.
Prerequisite(s):
• Minimum fourth-year standing; or
• permission of the department.

PHYS 432 Units: 1.5 Hours: 3-0
Medical Physics
Introduction to medical physics: production and measurement of x-rays and charged particles for nuclear medicine, interaction of radiation with biological materials, radiation dosimetry, radiation safety, physics of medical imaging, magnetic resonance imaging.
Prerequisite(s): Either PHYS 313 or PHYS 314, or BME 335 and MATH 204.

PHYS 438 Units: 1.5 Hours: 3-0
Solid State Physics II
Nanoscale physics, including semiconductor nanostructures and devices, nanomagnetism and spintronics, nanophotonics, molecular electronics, and superconductivity.
Prerequisite(s): PHYS 328.

PHYS 441 Units: 1.5 Hours: 3-0
Also: EOS 431
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.
Prerequisite(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 446A Units: 0 Hours: 2-0
Formerly: part of PHYS 460
Colloquium I
Weekly physics and astronomy colloquium.
Grading: COM, N, F

PHYS 446B Units: 0 Hours: 2-0
Formerly: part of PHYS 460
Colloquium II
Weekly physics and astronomy colloquium.
Prerequisite(s): PHYS 460A
Grading: COM, N, F

PHYS 480 Units: 1.5 Hours: 3-0
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.
Prerequisite(s): Permission of the department.

PHYS 490 Units: 1.0-3.0
Directed Studies
Prerequisite(s): Permission of the department.

PHYS 499 Units: 1.5 Hours: 0-3
Honours Thesis
A research project conducted under the direction of faculty.
Notes:
• Not open for credit to students with credit in PHYS 429B or ASTR 429.
• Normally only open to students declared in an Honours program offered by the department.

POLI

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, Québécois 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 Units: 1.5 Hours: 3-0-1
European Integration and the European Union
An introduction to the study of the European integration process and the basic structures and processes of the European Union, including an examination of selected policies.
POLI 217 - Units: 1.5 - Hours: 3-0-1
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.

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

POLI 233 - Units: 1.5 - Hours: 3-0-1
Contemporary Political Problems
An examination of one or more contemporary political problems, such as economic inequality, environmental degradation, or ethnic-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.

POLI 240 - Units: 1.5 - Hours: 3-0-1
International Politics
An introduction to the study and practice of international politics. Topics covered include the historical evolution of the international system, the major theoretical approaches to the study of international politics, state and non-state actors, and key contemporary issues in the areas of security and political economy.

POLI 300A - Units: 1.5 - Hours: 3-0-1
Formerly: 301
Ancient and Medieval Political Thought
A survey of the main themes and assumptions of political theory in ancient Greece and medieval Europe, including study of Plato’s Republic and Aristotle’s Politics.

Note: Credit will be granted for only one of POLI 300A, POLI 301, POLI 300 (if taken prior to Sep 1982 - Apr 1983).

POLI 300B - Units: 1.5 - Hours: 3-0
Formerly: half of 300
Early Modern Political Thought
An examination of basic texts and persistent themes in Western political thought from the Renaissance to the Enlightenment, including study of texts by such key thinkers as Machiavelli, Hobbes, Locke, Hume and Kant.

Note: Credit will be granted for only one of POLI 300B, POLI 300.

POLI 300C - Units: 1.5 - Hours: 3-0
Formerly: half of 300
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.

Recommendation(s): POLI 300A or POLI 300B recommended prior to POLI 300C.

POLI 305 - Units: 1.5 - Hours: 3-0
Democracy and Diversity
Examines the challenges that cultural and national diversity pose to liberal democracy. The analytical focus will be on both the normative desirability of recognizing cultural or national differences and on the political and legal ramifications of granting group and minority rights.

POLI 306 - Units: 1.5 - Hours: 3-0
Introduction to Marxism
An overview of the thought of Karl Marx and Frederick Engels, focusing on their philosophical origins, key concepts and ideas of their historical materialism, critique of political economy, political theory and philosophy. The development of Marxism after Marx and Engels, particularly in the tradition of Western Marxism, will be traced in the case of each concept and idea.

Note: Credit will be granted for only one of POLI 306, POLI 406.

POLI 308 - Units: 1.5 - Hours: 3-0
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).

POLI 309 - Units: 1.5 - Hours: 3-0
Democracy and Disobedience
Political thought and case studies about organized disobedience to law and policy as a form of political protest; connection between disobedience and legal and social change in contemporary states.

POLI 311 - Units: 1.5 - Hours: 3-0
Governments and Politics in Europe
Historical backgrounds to, institutional framework for, and players involved in, political conflict in European countries. Consideration will be given to contemporary policy issues and the process of European integration.

POLI 313A - Units: 1.5 - Hours: 3-0
Formerly: half of 313
U.S. Politics: Parties, Elections, and Social Movements
An analysis of the political system of the United States, with an emphasis on elections, parties, political participation, and social movements.

Note: Credit will be granted for only one of POLI 313A, POLI 313.

POLI 313B - Units: 1.5 - Hours: 3-0
Formerly: half of 313
U.S. Politics: Public Policy, the Constitution, and Civil Liberties
An analysis of constitutional politics and public policy in the United States, with a particular focus on issues related to civil rights and civil liberties.

Note: Credit will be granted for only one of POLI 313B, POLI 313.

POLI 313C - Units: 1.5 - Hours: 3-0
Indigenous Politics and the U.S. Political System
An analysis of the relations between American Indian Nations and other native peoples with the United States of America.

POLI 317 recommended prior to POLI 318.

POLI 318 - Units: 1.5 - Hours: 3-0
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.

POLI 319 - Units: 1.5 - Hours: 3-0
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.

POLI 320 - Units: 1.5 - Hours: 3-0
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.

POLI 321 - Units: 1.5 - Hours: 3-0
Introduction to 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.

POLI 327 - Units: 1.5 - Hours: 3-0
Formerly: 317
Government and 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 - POLI 365

<table>
<thead>
<tr>
<th>Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>POLI 329</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>The Political Foundations of International Law</td>
</tr>
<tr>
<td><strong>POLI 332</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>Urban Politics</td>
</tr>
<tr>
<td><strong>POLI 335</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>Gender and Politics</td>
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<td><strong>POLI 336</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>The Modern State</td>
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<tr>
<td><strong>POLI 338</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>Approaches to Political Analysis (Seminar Course)</td>
</tr>
<tr>
<td><strong>POLI 339</strong></td>
<td>1.5</td>
<td>3-0</td>
<td>The Empirical Analysis of Politics (Seminar Course)</td>
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<td><strong>POLI 340</strong></td>
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### Notes
- **POLI 329**: Required for Honours students, preferably in their third year; recommended for students considering graduate studies in Political Science or Public Administration.
- **POLI 332**: Formerly: 332B
- **POLI 335**: 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**: 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.
- **POLI 338**: 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.
- **POLI 339**: Survey of empirical 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.
- **POLI 340**: The historical development of the modern states system with reference to its changing social, economic, and political environments, and to related theoretical developments.
- **POLI 341**: 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**: The nature and function of international and regional governmental and non-governmental organizations.
- **POLI 344**: The politics of international economic relations in trade, investment, finance and macroeconomic policies from a variety of theoretical perspectives.
- **POLI 345**: 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**: Formerly 446
- **POLI 347**: 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**: 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.
- **POLI 349**: 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**: Also: ADMN 311
- **POLI 351**: 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 352**: 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 353**: 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 354**: An analysis of the Canadian policy-making process, using case studies to examine alternative theoretical perspectives.
POLI 366 - 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 - 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 - 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 - 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 - Chinese Politics
An exploration of the political, economic and social transformations in China, with 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 - 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 382 - 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 - 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 390 - 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 - 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 - Contemporary Themes in Political Thought
A seminar course covering major themes in contemporary political thought focusing especially on the interaction between theories of modernity and concepts of political identity and community.
Note: Credit will be granted for only one of POLI 402, POLI 302.

POLI 410 - 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, policymaking 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 about 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
Governance in the Global Political Economy
International and transnational arrangements governing economic practices and interactions among countries in trade, investment, finance, money 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-civil 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
Directed 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.
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 Hours: 3-0
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 Hours: 3-0
Beginners’ Portuguese II
A continuation of 100A, with emphasis on the acquisition of basic skills. Vocabulary and grammatical concepts will be expanded.

PORT 260 Units: 1.5 Hours: 3-0
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.

PSYC 100 Units: 1.5 Hours: 3-0
Formerly: half of 100
Introductory Psychology I
An introduction to concepts, theories and research findings of modern psychology. Topics may include psycholgy research methods, biological bases of behaviour, perception, development, consciousness, learning and cognition.

Note: Credit will be granted for only one of PSYC 100A, PSYC 100B.
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**PSYC 300A - Statistical Methods in Psychology**

Introduction to statistical methods, including descriptive and inferential statistics. Focuses on hypothesis testing.

**PSYC 300B - Statistical Methods in Psychology II**

Continued study of statistical methods, with an emphasis on advanced techniques.

**PSYC 317 - Sensation and Perception**

Study of sensory systems, perception, and decision-making.

**PSYC 320 - Evolutionary Psychology**

An overview of evolutionary psychology, including its historical development and current research.

**PSYC 325 - Environmental Psychology**

Focuses on the impact of environmental factors on human behavior.

**PSYC 330 - Personality**

Introduction to personality theories and their applications.

**PSYC 332 - Health Psychology**

Examines health behavior from a psychological perspective.

**PSYC 333 - Consumer Psychology**

Focuses on consumer behavior and decision-making processes.

**PSYC 334 - Organizational Psychology**

Study of psychological principles in the workplace.

**PSYC 338 - Behavioural Interventions: Children and Adults**

Focuses on the application of psychological principles to behavioral interventions in children and adults.
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 333B.
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 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 376 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 201; or  
• permission of the department.

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  
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 387 Units: 1.5 Hours: 3-0  
Advanced Interpersonal Relationships  
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 388 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 389 Units: 1.5 or 3.0 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 400A Units: 1.5 Hours: 3-0  
Advanced Statistical Methods: The General Linear Model  
An introduction to advanced statistical methods 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):  
• Either PSYC 100A and PSYC 100B (this set of prerequisites will only be accepted through summer 2017); or PSYC 231; and  
• PSYC 201.

PSYC 401 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 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.

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 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.

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 339, and PSYC 335 or PSYC 336.

Pre- or Corequisite(s):
• PSYC 300B; or
• permission of the department.

PSYC 435G Units: 1.5 Hours: 3-0

Autism: Theory and Practice
An academic and practical introduction to the social, biological and cognitive aspects of autism spectrum disorder (ASD). The first half of the course will introduce core theories and behaviours of autism. In the second half of the course, students will have an opportunity to apply this knowledge by working individually with children and young adults with autism spectrum disorder (ASD).

Prerequisite(s):
• All of PSYC 100A, PSYC 100B, PSYC 201; and one of PSYC 335, PSYC 336, PSYC 342.

PSYC 442 Units: 1.5 Hours: 3-0

Formerly: 342, 235

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 450 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

Formerly: part of PSYC 413A, PSYC 413B, PSYC 413C, PSYC 413D, PSYC 413E

Topics in Advanced Cognitive Psychology
Detailed analysis of a specific topic in cognitive psychology will be presented. The topic will vary with the course instructor but specializations include human memory, cognitive control, decision making, visual processes, and embodied cognition.

Note: Credit will be granted for only one of PSYC 451A, PSYC 413A, PSYC 413B, PSYC 413C, PSYC 413D, PSYC 413E.

Prerequisite(s):
• All of PSYC 100A, PSYC 100B, PSYC 315 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 451A, 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 processes, 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
Formerly: PSYC 451B, PSYC 423
Advanced Biological Psychology
Extensive, research-oriented examination of contemporary topics in biological psychology. Topics may include the biopsychology of motivation, memory, neural plasticity and changes in function after brain injury.
Note: Credit will be granted for only one of PSYC 451D, PSYC 415B, PSYC 423.
Prerequisite(s):
• PSYC 300A or STAT 255; and
• two of STAT 315D, 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 365, 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
Formerly: 361, half of 430
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 365; 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 the 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.
Note:
• 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.
PSYC 499 - RS 450

Religious Studies

Religious Studies Program
Faculty of Humanities

RS 200A
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.

RS 200B
Introduction to Asian Religions
A survey of the sources, beliefs and practices of Hinduism,
Buddhism, Sikhism and the Chinese religions. The traditions
will be studied in their cultural and political contexts from both
historical and contemporary perspectives.

RS 301
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.

RS 302
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.

RS 303
Religious Traditions I
An examination of the origins and early development of a
major world religion (e.g. Hinduism, Buddhism,
Confucianism, Judaism, Christianity, Islam).

RS 304
Religious Traditions II
A survey of the development and contemporary
manifestation of a major world religion (e.g. Hinduism,
Buddhism, Confucianism, Judaism, Christianity, Islam)

RS 305
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.

RS 306
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.

RS 307
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.

RS 308
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
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
Selected Topics in Religious Studies
Application of critical and analytic methods in Religious
Studies to a particular religious topic. Topics may include:
religion and death; religion and environment.

Note: May be taken more than once for credit in different
topics with permission of the program to a maximum of 6
units.

Prerequisite(s): Minimum fourth-year standing; or
permission of the program.

RS 403
Studies in Religion and Society
Course study based on events at or organized by the Centre
for Studies in Religion and Society, including weekly lectures
by Centre Fellows, daily discussions, distinguished speaker
series, faculty symposia and interdisciplinary research
projects.

Note: May be taken more than once for credit in different
topics with permission of the program to a maximum of 6
units.

Prerequisite(s): RS 200A and RS 200B; and
RS 301 or RS 302; or
permission of the program.

RS 450
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.
RS 490 - SENG 371

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.

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), CWE (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 programming 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, CSC 265.

Prerequisite(s): CSC 115 or CSC 116.

SENG 275 Units: 1.5 Hours: 3-2

Software Testing

An introduction to the testing of large-scale systems. Software specification, unit testing, integration testing, test driven development, black box testing, code inspection, model-based testing, software defect tracking and tools for automated testing. A software project gives experience with larger scale testing.

Prerequisite(s): SENG 265.

SENG 310 Units: 1.5 Hours: 3-2

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.
SOFTWARE PROCESS AND MANAGEMENT

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).

Prerequisite(s):
• SENG 265; and
• minimum fourth-year standing.

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 350.

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):
• SENG 275; and
• one of SENG 321, SENG 371, CENG 356.

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).

Prerequisite(s):
• SENG 265; and
• minimum fourth-year standing.

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 350.

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):
• SENG 275; and
• one of SENG 321, SENG 371, CENG 356.

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).

Prerequisite(s):
• SENG 265; and
• minimum fourth-year standing.

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 350.

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):
• SENG 275; and
• one of SENG 321, SENG 371, CENG 356.

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).

Prerequisite(s):
• SENG 265; and
• minimum fourth-year standing.

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 350.

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):
• SENG 275; and
• one of SENG 321, SENG 371, CENG 356.

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).

Prerequisite(s):
• SENG 265; and
• minimum fourth-year standing.
SENG 474 - SJS 392

SENG 474  Units: 1.5  Hours: 3-1
Data Mining
An introduction to data mining. Data preparation, model building, and data mining techniques such as clustering, decisions trees and neural networks will be discussed and applied to case studies. Data-mining software tools will be reviewed and compared.
Prerequisite(s):
•  SENG 265, and
•  MATH 210 or MATH 211, and
•  one of STAT 252, STAT 254, STAT 255, STAT 260, and
•  minimum third-year standing.

SENG 475  Units: 1.5  Hours: 3-1.5
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, or
•  permission of the department.

SENG 480A  Units: 1.5  Hours: 3-0*
Formerly: 480
Topics in Software Engineering
Presents material in an emerging field or one not covered in regular offerings. Topics depend primarily on the interests of the instructor.
Prerequisite(s):
•  permission of the department.

SENG 480B  Units: 1.5  Hours: 3-0*
Formerly: 480
Topics in Software Engineering
Presents material in an emerging field or one not covered in regular offerings. Topics depend primarily on the interests of the instructor.
Prerequisite(s):
•  permission of the department.

SENG 480C  Units: 1.5  Hours: 3-0*
Formerly: 480
Topics in Software Engineering
Presents material in an emerging field or one not covered in regular offerings. Topics depend primarily on the interests of the instructor.
Prerequisite(s):
•  SENG 265, and
•  MATH 210 or MATH 211, and
•  one of STAT 252, STAT 254, STAT 255, STAT 260, and
•  minimum third-year standing.

SENG 480D  Units: 1.5  Hours: 3-0*
Formerly: 480
Topics in Software Engineering
Presents material in an emerging field or one not covered in regular offerings. Topics depend primarily on the interests of the instructor.
Prerequisite(s): Permission of the department.

SENG 480E  Units: 1.5  Hours: 3-0*
Formerly: 480
Topics in Software Engineering
Presents material in an emerging field or one not covered in regular offerings. Topics depend primarily on the interests of the instructor.
Prerequisite(s): Permission of the department.

SENG 499  Units: 1.5  Hours: 1-9
Design Project II
The student is required to pursue a team-based 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 299 or SENG 350, and
•  ENGR 002, and
•  minimum fourth-year standing in the Faculty of Engineering, or
•  permission of the department.

Social Justice Studies
Interdisciplinary Programs

SJS 100  Units: 1.5  Hours: 3-0
Introduction to Theories of Social Justice
An interdisciplinary, team-taught study focusing on the central theoretical frameworks utilized by scholars. Introduces key thinkers associated with social justice studies.

SJS 200  Units: 1.5  Hours: 3-0
Introduction to the Practice of Social Justice
An interdisciplinary, team-taught approach to the practice 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.

SJS 390  Units: 1.5  Hours: 3-0
Honours Thesis
A major engineering design and research project under the supervision of a faculty member. The work involves independent study of the current literature and independent research and design. At the end of the term, each student submits a report and discusses the findings in an oral presentation.
Note: Normally taken over two terms. This course may only be taken once replacing two technical electives, one of which can be SENG 499.
Prerequisite(s):
•  Topics information will be provided by the program office.

Special Topics in Social Justice Studies: Method and Theory
Interdisciplinary investigation of a selected topic that emerges from the study of issues in theory and method in social justice studies.

Social Justice Studies
Special Topics in Social Justice Studies: Substantive Issues
Interdisciplinary investigation of a selected topic that emerges from the study of substantive issues in social justice studies.

Notes:
•  May be taken more than once for credit in different topics with permission of the program.

SJS 392  Units: 1.5  Hours: 3-0
Special Topics in Social Justice Studies: Method and Theory
Interdisciplinary investigation of a selected topic that emerges from the study of issues in theory and method in social justice studies.

Notes:
•  May be taken more than once for credit in different topics with permission of the program.

SJS 392  Units: 1.5  Hours: 3-0
Special Topics in Social Justice Studies: Substantive Issues
Interdisciplinary investigation of a selected topic that emerges from the study of substantive issues in social justice studies.

Notes:
•  May be taken more than once for credit in different topics with permission of the program.

SJS 392  Units: 1.5  Hours: 3-0
Special Topics in Social Justice Studies: Method and Theory
Interdisciplinary investigation of a selected topic that emerges from the study of issues in theory and method in social justice studies.

Notes:
•  May be taken more than once for credit in different topics with permission of the program.

SJS 392  Units: 1.5  Hours: 3-0
Special Topics in Social Justice Studies: Substantive Issues
Interdisciplinary investigation of a selected topic that emerges from the study of substantive issues in social justice studies.

Notes:
•  May be taken more than once for credit in different topics with permission of the program.
**SLST 101** Units: 1.5 Hours: 3-0
**Beginning Russian I**
For students with no previous knowledge of Russian. Covers the basics of Russian grammar, reading and conversation at the beginner’s level resulting in an ability to communicate in selected typical situations. Introduction to various aspects of everyday Russian life and culture through the language.

**Prerequisite(s):**
- SLST 100 or RUSS 100A
- permission of the department.

**SLST 102** Units: 1.5 Hours: 3-0
**Beginning Russian II**
Continuation of the development of basic reading, writing and conversational skills. Introduction to various aspects of everyday Russian life and culture through the language.

**Prerequisite(s):**
- SLST 101 or RUSS 100A; or
- permission of the department.

**SLST 111** Units: 1.5 Hours: 3-0
**Beginning Ukrainian I**
Introduction to the essential points of grammar and basic vocabulary for everyday interaction, as well as reading and writing.

**Prerequisite(s):**
- SLST 111 or UKR 100A; or
- permission of the department.

**SLST 112** Units: 1.5 Hours: 3-0
**Beginning Ukrainian II**
Expands knowledge and skills acquired in SLST 111. Progress toward command of the spoken and written language.

**Prerequisite(s):**
- SLST 111 or UKR 100A; or
- permission of the department.

**SLST 160** Units: 1.5 Hours: 3-0
**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
**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
**Intermediate Russian I**
Expands and enhances spoken and written knowledge and skills. Grammatical features, vocabulary, sentence structure and insight into Russian life and culture.

**Note:** Credit will be granted for only one of SLST 201, RUSS 200, RUSS 200A.

**Prerequisite(s):**
- One of SLST 102, RUSS 100, RUSS 100B; or
- permission of the department.

**SLST 202** Units: 1.5 Hours: 3-0
**Intermediate Russian II**
Furthers knowledge of grammar and vocabulary at the intermediate level with continued reading, writing, listening and speaking in Russian while learning about Russian life and culture.

**Note:** Credit will be granted for only one of SLST 202, RUSS 200, RUSS 200B.

**Prerequisite(s):**
- SLST 201 or RUSS 200A; or
- permission of the department.

**SLST 203** Units: 1.5 Hours: 3-0
**Pronunciation and Colloquial Russian**
Focuses on Russian pronunciation, phonetics and intonation as well as colloquial language. Aims to build a foundation for confidence in spoken Russian. Proverbs and sayings, tongue-twisters, nursery rhymes, songs and cartoons provide an insight into Russian popular culture.

**Note:** Credit will be granted for only one of SLST 203, RUSS 203.

**Prerequisite(s):**
- One of SLST 101, RUSS 100, RUSS 100A; or
- permission of the department.

**SLST 210** Units: 1.5 Hours: 3-0
**Special Topics**

**Note:** May be taken more than once for credit in a different topic with permission of the department to a maximum of 4.5 units.

**SLST 300** Units: 1.5 Hours: 3-0
**Slavic Cultural Studies**
Provides case studies in the cultural history of Slavic and other Eastern European countries in which students analyze texts, films, media, as well as visual and material objects and spaces from a variety of approaches and perspectives.

**Note:** No knowledge of Russian or Ukrainian is required.

**SLST 301** Units: 1.5 Hours: 3-0
**Advanced Russian**
For advanced-to-interactive students of Russian. Focus on understanding advanced grammar features and developing communication skills while learning about Russian literature and culture.

**Note:** Credit will be granted for only one of SLST 301, RUSS 300A, RUSS 302.

**Prerequisite(s):**
- One of SLST 201 and SLST 202, RUSS 200, RUSS 200A and RUSS 200B; or
- permission of the department.
SLST 303  Units: 1.5  Hours: 3-0
Formerly: RUSS 303
Russian Popular Culture (in Russian)
For advanced to intermediate students of Russian. Focuses on improving mastery of the spoken language and comprehension and study of Russian popular culture in the original language.
Note: Credit will be granted for only one of SLST 303, RUSS 300B, RUSS 302, RUSS 303.
Prerequisite(s):
• One of SLST 201 and SLST 202, RUSS 200, RUSS 200A and RUSS 200B; or
• permission of the department.

SLST 345  Units: 1.5  Hours: 3-0
Also: HSTR 345
The Eastern Front in the First and Second World Wars
Examines the military, political, and social aspects of the Eastern Front in Europe during both World Wars. Aims to analyze the Eastern Front’s difference from the warfare in the West, and how this specificity explains the origins of revolutionary violence and genocide.
Note: Credit will be granted for only one of SLST 345, SLST 410 (if taken as section A02 in Sep-Dec 2014), HSTR 340 (if taken as section A02 in Sep-Dec 2014), HSTR 345.

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
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.
Note:
• 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.
Note:
• 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.
Note:
• Credit will be granted for only one of SLST 363, SLAV 377, HIST 377, HSTR 353.
• No knowledge of Russian 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.
Note:
• 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.

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.
Note:
• 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
Note:
• 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.
Note:
• 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 460  Units: 1.5  Hours: 3-0
History and Memory in Eastern European Cultures
A study of the construction of historical memory through literary and artistic representations of the past in several Eastern European nations. Focus on the role of historical novels in the cultural work of modern nationalism and cinematic treatment of the 20th-century wars and ethnic conflicts.
Note: No knowledge of Russian required.

SLST 461  Units: 1.5  Hours: 3-0
Formerly: RUSS 461
Putin’s Russia
An exploration of Russian culture and politics under the controversial leadership of Vladimir Putin. Topics may include Putin’s rise to power, the Pussy Riot scandal, LGBT rights under Putin, the Sochi Olympics and Russian-Ukrainian conflict.
Note:
• Credit will be granted for only one of SLST 461, SLST 410 (if taken in the same topic).
• No knowledge of Russian required.
Directed Studies of the department. An oral examination covering the topic covered are: service design, integrated marketing Customer Experience Management Formerly: SMGT 415 Units: 1.5 Hours: 3-0

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

Service Management

Peter B. Gustavson School of Business

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

SMGT 415 Units: 1.5 Hours: 3-0
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 quality, QFD and the House of Quality, service capacity planning and waiting line management, service control and service quality improvement.

Note: Credit will be granted for only one of SMGT 416, HSM 416.

Prerequisite(s):
• All of COM 315, COM 316, COM 321, COM 322, COM 331, COM 341, COM 351, COM 361, COM 362, COM 371; or
• permission of the school.

Corequisite(s): SMGT 415 and SMGT 417.

SMGT 417 Units: 1.5 Hours: 3-0
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 417.

SOCI

Sociology

Department of Sociology

Faculty of Social Sciences

Students may enrol in courses numbered 300 and above only if satisfied.

Note: Credit will be granted for only one of SOCI 401A, SOCI 401B, SOCI 401C.

Recommended prior to SOCI 206, SOCI 307, SOCI 313, and SOCI 401.

Sociology of Family Relationships

Examines the dynamics of family relationships over the life course. Topics include: the formation of intimate relationships; becoming a parent; parent-child relationships and their influence on children's social and emotional development; and the ways in which families respond to tensions and conflict within relationships, focusing on the effects of separation and divorce and adult children's return to the "empty nest".

Note: Credit will be granted for only one of SOCI 205, SOCI 305, SOCI 305A.

Recommended prior to SOCI 305B, SOCI 343, and SOCI 433.
**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 victimology. 
Note: Credit will be granted for only one of SOCI 206, SOCI 301, SOCI 306.  

**SOCI 210**  
Units: 1.5  
Hours: 3-0  
Classical Social Theorizing  
An examination of the emergence of Sociology, emphasizing the founding ideas and theorists. Outlines the main ideas, concepts, and schools of thought that compose the history of the discipline, as well as the social and historical context from which it developed. In this course, emphasis is placed on developing students’ abilities to theorize the social world. 
Note: Credit will be granted for only one of SOCI 210, SOCI 209, SOCI 300, SOCI 308.  
Pre- or Corequisite(s): SOCI 100A and SOCI 100B.  

**SOCI 211**  
Units: 1.5  
Hours: 3-0  
Introduction to Sociological Research  
Introduction to the key concepts, strategies, and techniques of social research, including conceptualization and measurement, research design, sampling, the collection and analysis of qualitative and quantitative data. 
Note: Credit will be granted for only one of SOCI 211, SOCI 209, SOCI 375, SOCI 375A, SOCI 375B.  
Pre- or Corequisite(s): SOCI 100A and SOCI 100B.  

**SOCI 215**  
Units: 1.5  
Hours: 3-0  
Class and Social Inequality  
Introductory examination of the shifting patterns, determinants, and consequences of social inequality, with an emphasis on class, gender, race/ethnicity, region and domination/resistance. The course also surveys key theories of inequality in global and comparative perspective. 
Recommendation(s): Recommended prior to SOCI 315, SOCI 331, and SOCI 436.  

**SOCI 220**  
Units: 1.5  
Hours: 3-0  
Formerly: 320  
Media and Contemporary Society  
Explores the relationship between information technology, society and the individual. Emphasizes how mass communications, popular culture, and social media platforms (e.g. Facebook, Google, Instagram, Twitter, Snapchat, Tinder, Pinterest, LinkedIn, YouTube, etc.) influence our relationships with friends, family members, society, and ourselves. Examines various collectivities including virtual communities and social networks and how they shape contemporary relationships. 
Note: Credit will be granted for only one of SOCI 220, SOCI 320, SOCI 390 (if taken in the same topic).  

**SOCI 271**  
Units: 1.5  
Hours: 3-1  
Formerly: 371, 371A  
Introduction to Social Statistics  
Descriptive statistics, probability distributions, statistical inference, including estimation and significance tests, and an introduction to bivariate analysis. Computer assisted analysis of sociological data.  
Notes: 
- Credit will be granted for only one of SOCI 271, SOCI 371, SOCI 371A.  
- See “Credit Limit - Beginning Level Statistics Courses”.  
Pre- or Corequisite(s): SOCI 100A and SOCI 100B.  

**SOCI 281**  
Units: 1.5  
Hours: 3-0  
Formerly: 381  
Sociology of Genders  
Introduction to sociological perspectives on genders. Examines both the gendering of everyday social interactions and the role of genders in structuring major social institutions. Topics may include the relation of genders to sexuality, bodies, work, race and ethnicity, sports, media, education, politics, violence, and/or other ways of organizing social interactions. Intersections between genders and other forms of social inequalities will be considered. 
Note: Credit will be granted for only one of SOCI 281, SOCI 381.  

**SOCI 285**  
Units: 1.5  
Hours: 3-0  
Health Over the Life Course  
Notions of health, wellness and who is deserving of health care are socially-constructed concepts. An examination of some of the main sociological ways of conceptualizing and studying health across the life course, leading into the social factors and institutions that shape individual health trajectories. Concludes with a discussion of interventions to promote equitable health across the life course.  
Recommendation(s): Recommended prior to SOCI 382, SOCI 389, and SOCI 435.  

**SOCI 305B**  
Units: 1.5  
Hours: 3-0  
Formerly: part of 305  
Families and Social Change  
Considers the relationship between families and society, looking at continuity and change in contemporary Canadian family forms in the context of other cultures and periods. Emphasizes how social, economic and demographic changes in Canadian society have reshaped family forms and practices over the past century; discusses current family trends and evaluates their social policy implications. 
Note: Credit will be granted for only one of SOCI 305B, SOCI 305.  
Recommendation(s): SOCI 205 recommended prior to SOCI 305B.  
Recommended prior to SOCI 443.  

**SOCI 307**  
Units: 1.5  
Hours: 3-0  
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. 
Note: Credit will be granted for only one of SOCI 307, SOCI 301.  
Recommendation(s): SOCI 202 recommended prior to SOCI 307.  
Recommended prior to SOCI 401.  

**SOCI 309**  
Units: 1.5  
Hours: 3-0  
Contemporary Social Theorizing  
An examination of major modes of theorizing that are influential in contemporary sociology. Covers important developments in social theory over the past 50 years and concepts such as power, ideology, rationality, social structure, agency, freedom, identity, gender, postcolonialism, and globalization. Emphasis is placed on developing students’ abilities to theorize contemporary social issues. 
Prerequisite(s): SOCI 210.  

**SOCI 310**  
Units: 1.5  
Hours: 3-0  
Religion in Society  
Cultural, social, and institutional impacts of religion in modern societies. Foundational and classical approaches to religion are considered, along with contemporary phenomena pertaining to the social role of religious institutions and beliefs. These may include millenarian and evangelical movements, denominational religion in the Anglo-American context, popular religious movements, liberation theology, cults, and the process of secularization.  

**SOCI 312**  
Units: 1.5  
Hours: 3-0  
White-Collar Crime  
An examination of the neglected problem of white-collar crime. Topics include corporate crime, financial fraud, occupational crime, cybercrime, worker safety, environmental crime, consumer victimization, professional misconduct, and the corruption of science. 
Recommendation(s): SOCI 100A and SOCI 100B recommended prior to SOCI 312.  

**SOCI 313**  
Units: 1.5  
Hours: 3-0  
Formerly: 401  
Sociology of Law  
The interrelationships of law and other social institutions, socio-economic origins and class interests of legal functionaries, and law as social conflict are analyzed in Canadian and cross-cultural contexts. 
Note: Credit will be granted for only one of SOCI 313, SOCI 401.  
Prerequisite(s):  
- 1.5 units of 300- or 400-level SOCI course; or  
- permission of the department.  
Recommendation(s): SOCI 202, and SOCI 306 or SOCI 307 recommended prior to SOCI 313.
SOCI 316 - SOCI 388

SOCI 316  Units: 1.5  Hours: 3-0
Social Movements
A study of social movements in the making of modernity and its ongoing transformations. Exploration of how movements arise and are maintained, of why certain kinds of movements emerge in specific contexts, and of what impact they have upon socio-political relations and cultural discourses, both globally and locally. Specific social movements such as feminism, ecology, gay and lesbian liberation, Aboriginal activism, the peace movement, labour, socialism, and religious fundamentalism will be examined.

SOCI 318  Units: 1.5  Hours: 3-0
Formerly: 418
Social Change
Inquiry into the social structures, cultural practices, and political economic transitions associated with social change, emphasizing ethical-political underpinnings and implications. Topics include reform and revolution, globalization "from above" and "from below," and changing conceptions of social justice and community.
Note: Credit will be granted for only one of SOCI 318, SOCI 418.
Recommendation(s): SOCI 215 recommended prior to SOCI 318. Recommended prior to SOCI 419.

SOCI 321  Units: 1.5  Hours: 3-0
Work, Employment and Society
Explores the sociology of work and occupations, followed by a historical overview of work in human societies, methods of training people for work, and the sociological study of the world of work in the 21st century. Also examines current employment patterns and trends, the nature of labour markets, the gendered arrangements of work, the organization and management of work, the conditions of unions and industrial relations, and the personal context of work.

SOCI 326  Units: 1.5  Hours: 3-0
Social Networks
The major models, methods, and findings of network analysis. The following areas may be discussed: friendship, social influence and status, small groups, communication and diffusion of information, corporate and community organization, social and economic mobility, and computer analysis of network data.
Prerequisite(s): SOCI 211.

SOCI 327  Units: 1.5  Hours: 3-0
International Perspectives on Inequities in Health and Health 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  Units: 1.5  Hours: 3-0
Politics and Society
An introduction to key topics such as parties and movements, changing electoral arrangements, welfare states, reform and revolution, political violence and terrorism, policymaking, state formation, nationalism and imperialism.
Note: Credit will be granted for only one of SOCI 331, SOCI 330.
Recommendation(s): SOCI 215 recommended prior to SOCI 331. Recommended prior to SOCI 436.

SOCI 335  Units: 1.5  Hours: 3-0
Racialization and Ethnicity
Examines theory and research in the area of ethnic and race relations. Topics include: French-English duality, demography of ethnic and racial groups, ethnic and racial inequality, international migration, identity and multiculturalism, racism, Indigenous and non-Indigenous relations, and ethnic conflict.
Recommendation(s): SOCI 215 recommended prior to SOCI 335. Recommended prior to SOCI 436.

SOCI 345  Units: 1.5  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  Units: 1.5  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 374  Units: 1.5  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  Units: 1.5  Hours: 3-0
Formerly: half of 375, 375B
Quantitative Research Methods
Introduces quantitative research techniques in sociological research, particularly survey research. Topics may include: research design, measurement, questionnaire construction, data collection methods, sampling theory, and data analysis techniques.
Note: Credit will be granted for only one of SOCI 376, SOCI 375, SOCI 375B.
Prerequisite(s): SOCI 211 and SOCI 271.

SOCI 382  Units: 1.5  Hours: 3-0
Sociology of Sexualities
Examination of sociological, theoretical and historical perspectives on sexualities. Topics may include: medicalization of sexualities; research methods in the study of sexualities; sexualities of children and teens; heterosexualities; lesbian, gay and queer sexualities; bisexualities, asexualities, pansexualities, and polyamoury; trans sexualities; sexually transmitted infections; consent; sex for sale; sex positivity. Intersections between sexualities and other forms of social inequalities will be considered.
Recommendation(s): SOCI 281 recommended prior to SOCI 382. Recommended prior to SOCI 435.

SOCI 383  Units: 1.5  Hours: 3-0
Feminisms in Theory and Practice
An examination of new feminist thinking through a contemporary sociological lens. Topics may include: food and the politics of fat, prostitution, militarism, troubling the boundaries between nature and culture, Indigenous women’s organizing around climate change, ecological feminisms, feminist economics, materialism, epistemologies and ontologies. Contemporary feminisms challenge social convention.
Prerequisite(s):
- 1.5 units of 300- or 400-level SOCI course; or permission of the department.

SOCI 385  Units: 1.5  Hours: 3-0
Sociology of Aging
An overview of the sociology of aging, including theoretical perspectives, methodological challenges, and substantive topic areas such as the gendered nature of aging, cultural comparisons, families and intergenerational relations, and health and healthcare.
Recommendation(s): SOCI 285 recommended prior to SOCI 385. Recommended prior to SOCI 445.

SOCI 388  Units: 1.5  Hours: 3-0
Sociology of Food and Eating
Examines what you eat and where it comes from through various lenses including gender, justice, power, animal rights and ecology. The examination moves beyond criticism and explores progressive social movements that are changing how we see food.
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.
SOC 389  Units: 1.5  Hours: 3-0
Formerly: 488
Death and Dying
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.

SOC 390  Units: 1.5  Hours: 3-0*
Special Topics in Sociology
Presentation of current interests of various faculty members. * Contact hours may vary depending on the topic.
Notes:
• May be taken more than once for credit to a maximum of 3 units.
• Students interested in this course should inquire at registration when the course is to be offered and what the substantive presentation will involve.

SOC 431  Units: 1.5  Hours: 3-0
Issues in Social Theorizing
In-depth study of issues in social theory. Topics may include particular theories, theorists, current issues and debates.
Notes:
• Credit will be granted for only one of SOCI 431, SOCI 402, SOCI 412, SOCI 481.
• May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• SOCI 210; and
• minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.
Recommendation(s): SOCI 309 recommended prior to SOCI 431.

SOC 432  Units: 1.5  Hours: 3-0
Issues in Health and Aging
In-depth examination of contemporary issues relating to the sociology of health and aging. Topics may include: widowhood, caregiving and social support, housing and long term care, dementia and personhood, intergenerational relationships, ethnicity and immigration, indigeneity, elder abuse, and technology.
Notes:
• Credit will be granted for only one of SOCI 432, SOCI 445.
• May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.
Recommendation(s): SOCI 285, and SOCI 345 or SOCI 385 recommended prior to SOCI 432.

SOC 433  Units: 1.5  Hours: 3-0
Issues in Demography and Families
In-depth examination of contemporary population trends and their effects on human well-being, issues relating to families, and social policy responses. Topics may include: population growth, sustainable development, and the environment; population aging; dating and mating, marriage, cohabitation and divorce; new reproductive technologies; parenting, work and family life, stress and violence, population and immigration, indigenous families, urbanization and human crowding.
Notes:
• Credit will be granted for only one of SOCI 433, SOCI 340, SOCI 342, SOCI 443.
• May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.
Recommendation(s): SOCI 205, and SOCI 305B or SOCI 343 recommended prior to SOCI 433.

SOC 434  Units: 1.5  Hours: 3-0
Issues in Deviance, Crime, Law and Social Control
Notes:
• Credit will be granted for only one of SOCI 434, SOCI 401.
• May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.
Recommendation(s): SOCI 202, and SOCI 206 and/or SOCI 307 recommended prior to SOCI 434.

SOC 435  Units: 1.5  Hours: 3-0
Issues in Gender, Sexuality and Trans Communities
Note: May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.
Recommendation(s): SOCI 281 and/or SOCI 382 recommended prior to SOCI 435.

SOC 436  Units: 1.5  Hours: 3-0
Issues in Sociology and Social Justice
In-depth examination of sociology’s relationship with social control, public policy, social reform and social activism. Topics may include community service and/or experiential learning opportunities.
Notes:
• Credit will be granted for only one of SOCI 436, SOCI 450.
• May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.
Recommendation(s): SOCI 215, and one of SOCI 315, SOCI 331, SOCI 335, SOCI 355 recommended prior to SOCI 436.

SOC 437  Units: 1.5  Hours: 3-0
Issues in Environmental Sociology and Climate Change
In-depth examination of sociological explanations of the causes and social consequences of environmental degradation and climate change with a focus on solutions and alternatives. Topics may include: social movements around environmental justice, climate change and climate justice, alternative and diverse economies including food sovereignty, “fair trade” and ethical consumption, and ecological feminisms.
Notes:
• Credit will be granted for only one of SOCI 437, SOCI 465.
• May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.

SOC 438  Units: 1.5  Hours: 3-0
Issues in Contemporary Sociology
Note: May be taken more than once for credit in different topics to a maximum of 3 units.
Prerequisite(s):
• Minimum third-year standing; and
• declared Honours or Major in Sociology; or
• permission of the department.

SOC 471  Units: 1.5  Hours: 3-1
Intermediate Social Statistics
An introduction to multivariate relationships, including multiple regression and correlation, analysis of variance and covariance and other topics of the general linear model. Computer-assisted analysis of sociological data.
Notes:
• Credit will be granted for only one of SOCI 471, SOCI 371B, SOCI 372.
• If space permits, other students may be permitted to register.
Prerequisite(s):
• SOCI 271 or SOCI 371A, and
• Admission to BA program in Sociology, or admission to MA program in Leisure Service Administration; or
• permission of the department.

SOC 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.

SOC 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 Honours 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 200B Units: 1.5 Hours: 3-0
Introduction to the Critical Analysis of Social Welfare in Canada
Students critically analyze the current and historical development of Canadian social welfare policy, and explore the impact of economic and social restructuring trends on patterns of exclusion, structural inequities and increased needs for social protection. Students will become familiar with the ways that systems of oppression have intersected to produce a particular focus on some social problems and not others.

SOCW 304 Units: 3.0 or 4.5
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 with the ways that systems of oppression have intersected to produce a particular focus on some social problems and not others.

SOCW 304A Units: 3.0 or 4.5
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
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 skills that are effective, participatory and collaborative.
Notes:
• Credit will be granted for only one of SOCW 312, SOCW 323.
• On-campus component required.
Pre- or Corequisite(s): SOCW 311.

SOCW 319 Units: 1.5
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 350A 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.

COURSE LISTINGS SOCW

SOCW 200A - SOCW 350B 577
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 with 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 494A.
• 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.
Students may be required to complete a Ministry of Children and Family Development or Indigenous Delegated Authority Partial Delegation Exam prior to or during their practicum placement. Non-BC students may be required to meet the requirements applicable in other jurisdictions.
Prerequisite(s):
• 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
  • SOCW 350A and SOCW 354.
• 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 475; and
  • SOCW 469 or SOCW 471.
• 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

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 a Ministry of Children and Family Development or Indigenous Delegated Authority Partial Delegation Exam prior to or during their practicum placement. Non-BC students may be required to meet the requirements applicable in other jurisdictions.
Prerequisite(s):
• For students admitted to Child Welfare Specialization:
  • One of SOCW 301, SOCW 318, SOCW 319; and
  • SOCW 304 or SOCW 304A; 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: INP, COM, N, F
### SOCW 404A - SOCW 471
#### COURSE LISTINGS

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCW 404A</td>
<td>4.5</td>
<td>Child Welfare Specialization: Child Welfare Practicum&lt;br&gt;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 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 all of SOCW 350A, SOCW 350B, SOCW 354, SOCW 356 SOCW 391, SOCW 491, SOCW 492. 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: INP, COM, N, F.</td>
</tr>
<tr>
<td>SOCW 413</td>
<td>1.5</td>
<td>Critical Social Work Practices&lt;br&gt;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 and SOCW 304 or SOCW 304A.</td>
</tr>
<tr>
<td>SOCW 433</td>
<td>1.5</td>
<td>Working with Trauma&lt;br&gt;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.</td>
</tr>
<tr>
<td>SOCW 435</td>
<td>1.5</td>
<td>Critical Perspectives in Mental Health Practice&lt;br&gt;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.</td>
</tr>
<tr>
<td>SOCW 451</td>
<td>1.5</td>
<td>Indigenous Policy Analysis in Social Work&lt;br&gt;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.</td>
</tr>
<tr>
<td>SOCW 452</td>
<td>1.5</td>
<td>Teaching and Learning for Social Change&lt;br&gt;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.</td>
</tr>
<tr>
<td>SOCW 460</td>
<td>1.5 or 3.0</td>
<td>Special Topics in Social Work and Social Welfare&lt;br&gt;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.</td>
</tr>
<tr>
<td>SOCW 465</td>
<td>1.5</td>
<td>Interdisciplinary Practice with Children and Families&lt;br&gt;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.</td>
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<tr>
<td>SOCW 469</td>
<td>1.5</td>
<td>Re-defining Abilities in the Context of Theory and Practice&lt;br&gt;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.</td>
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<tr>
<td>SOCW 471</td>
<td>1.5</td>
<td>Addictions in Society: Theory, Practice and Policy&lt;br&gt;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.</td>
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</table>
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 • 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.

SOCW 493  Units: 1.5  Hours: 3-0
Cultural Considerations in Indigenous Practice
An opportunity to explore all aspects of Indigenous social work practice in the field of addictions. Students will explore their own conceptual and philosophical orientation to Indigenous social work practice.
Prerequisite(s): SOCW 491.

SOCW 494  Units: 1.5  Hours: 3-0
Critical Thinking in Social Work Practice
An opportunity to explore the critical thinking skills required for effective practice in the field of social work.
Prerequisite(s): SOCW 311.

SOCW 495  Units: 1.5  Hours: 3-0
Advanced Standing Program
An opportunity for students to continue their education in the field of social work.
Prerequisite(s): SOCW 494.

SPAN 108  Units: 1.5  Hours: 3-0
The First Global Culture (in English)
An overview of the Overseas explorations, 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 - SPAN 305

**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, Eva 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**  
**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.  
**Note:** May be taken more than once for credit in different topics with permission of the department.

**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**  
Review 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.  
**Prerequisites:**  
- 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 250A, SPAN 249, SPAN 250.  
**Prerequisites:**  
- 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.  
**Prerequisites:** SPAN 250A.

**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.  
**Prerequisites:**  
- Either Spanish 12, or SPAN 100A and SPAN 100B, or permission of the department.  
**Corequisites:** SPAN 250A.

**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 304**  
Units: **1.5**  
Hours: **3-0**  
**Indigenous Latin America, Social Justice, Environment (in English)**  
Focuses on globally relevant social and environmental issues being addressed by Indigenous peoples in countries such as Bolivia, Brazil, Guatemala, Mexico and Peru. In-depth study of themes including decolonization, education, and social mobilization. Lectures, film excerpts, guest speakers, student presentations and thought-provoking dialogue.  
**Note:** Credit will be granted for only one of SPAN 304, SPAN 305 (if taken in the same topic).  
**Prerequisite(s):** Minimum second-year standing.

**SPAN 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.

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**Notes:**

- Credit will be granted for only one of SPAN 249, SPAN 250, SPAN 250A, SPAN 250B.  
- Credit will be granted for only one of SPAN 250B, SPAN 249, SPAN 250.  
- Credit will be granted for only one of SPAN 250A, SPAN 249, SPAN 250.  
- Not open to students with credit in SPAN 280.
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.

SPAN 350A  Units: 1.5  Hours: 3-0
Formerly: first half of 350
Advanced Composition, Translation and Stylistics I
Emphasis on the mastery of Spanish grammar and syntax through translation, composition and readings.
Note: Credit will be granted for only one of SPAN 350A, SPAN 350.
Prerequisite(s):
• Either SPAN 249, or SPAN 250A and SPAN 250B with a minimum GPA of 4.0; or
• permission of the department.

SPAN 350B  Units: 1.5  Hours: 3-0
Formerly: second half of 350
Advanced Composition, Translation and Stylistics II
A continuation of 350A, with continued emphasis on the mastery of Spanish grammar and syntax through translation, composition and readings.
Note: Credit will be granted for only one of SPAN 350B, SPAN 350.
Prerequisite(s):
• SPAN 350A; or
• permission of the department.

SPAN 355  Units: 1.5  Hours: 3-0
Advanced Communicating in Spanish
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.
Corequisite(s): SPAN 350B.

SPAN 370  Units: 1.5  Hours: 3-0
Spanish Literature from Origins to 1700
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.
Prerequisite(s):
• 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; or
• permission of the department.

SPAN 375  Units: 1.5  Hours: 3-0
Spanish Literature Since 1700
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.
Prerequisite(s):
• 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; or
• permission of the department.

SPAN 380  Units: 1.5  Hours: 3-0
The Invention of Spanish America, 1492 to 1900
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.
Prerequisite(s):
• 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; or
• permission of the department.

SPAN 385  Units: 1.5  Hours: 3-0
The Rise of Modern Latin American Literature, 1900-present
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.
Prerequisite(s):
• 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; or
• permission of the department.

Intermediate Directed Reading
Specified reading project determined by the student, the instructor and the chair of the department; written assignments are required.
Note: May be taken more than once for credit in different topics with permission of the department.
Prerequisite(s):
• SPAN 250B with a minimum grade of B-; or
• permission of the department.

SPAN 395  Units: 1.5  Hours: 3-0
Topics in Spanish Culture
Explores the artistic, literary, intellectual, social and political trends in Spain from the Middle Ages to the present.
Notes:
• May be taken more than once for credit in different topics with permission of the department.

SPAN 408A  Units: 1.5  Hours: 3-0
Topics in Spanish Culture
Explores the artistic, literary, intellectual, social and political trends in Spain from the Middle Ages to the present.
Notes:
• May be taken more than once for credit in different topics with permission of the department.

SPAN 408B  Units: 1.5  Hours: 3-0
Topics in Latin American Culture
Explores the artistic, literary, intellectual, social and political trends in Latin America.
Notes:
• May be taken more than once for credit in different topics with permission of the department.

SPAN 417  Units: 1.5  Hours: 3-0
Global Perspectives in the Spanish-speaking World
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.
Pre- or Corequisite(s):
• SPAN 350A; or
• permission of the department.

SPAN 450A  Units: 1.5  Hours: 3-0
Advanced Grammar and Syntax
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.
Note: Credit will be granted for only one of SPAN 450A, SPAN 450.
Prerequisite(s): SPAN 350A and SPAN 350B.

SPAN 460  Units: 1.5  Hours: 3-0
Hispanic Poetry
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.
Note: Open to native and near-native speakers.
Pre- or Corequisite(s):
• SPAN 350A; or
• permission of the department.

SPAN 469  Units: 1.5  Hours: 3-0
Special Topics in Hispanic Literatures
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.
• Open to native and near-native speakers.
Pre- or Corequisite(s):
• SPAN 350A; or
• permission of the department.

SPAN 470  Units: 1.5  Hours: 3-0
Medieval Literature
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.
Notes:
• Credit will be granted for only one of SPAN 470, SPAN 470A, SPAN 470B.
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Open to native and near-native speakers.
Pre- or Corequisite(s):
• SPAN 350A; or
• permission of the department.
SPAN 471B  Units: 1.5  Hours: 3-0
Formerly: 471
Miracle Stories of the Marian Tradition
A 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  Units: 1.5  Hours: 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  Units: 1.5  Hours: 3-0
Formerly: 473
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  Units: 1.5  Hours: 3-0
Formerly: 473
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  Units: 1.5  Hours: 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  Units: 1.5  Hours: 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  Units: 1.5  Hours: 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  Units: 1.5  Hours: 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 479A  Units: 1.5  Hours: 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 482  Units: 1.5  Hours: 3-0
Formerly: 481, 481A, 481B
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  Units: 1.5  Hours: 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.
SPAN 483B - SPAN 490C

SPAN 483B Units: 1.5 Hours: 3-0
Fiction from the "Boom" to the Present
Novels and short stories from the 1950s to the present. Discussion of each work within the national and/or regional context.
Notes:
• Credit will be granted for only one of SPAN 483B, SPAN 483D.
• Open to native and near-native speakers.
Pre- or Corequisite(s):
• SPAN 350A; or
• permission of the department.

SPAN 483C Units: 1.5 Hours: 3-0
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: Open to native and near-native speakers.
Pre- or Corequisite(s):
• SPAN 350A; or
• permission of the department.

SPAN 484A Units: 1.5 Hours: 3-0
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.

SPAN 484C Units: 1.5 Hours: 3-0
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 "plantation complex" and the "Great Rebellions" of the 18th to the evolution of Latin American identities, the Brazilian contribution of Indigenous, European and African cultures to the newly created nations focussing on Argentina, Colombia, México and Perú.
Notes:
• Credit will be granted for only one of SPAN 484D, HISTR 471, HISTR 376B.
• Given in English.

SPAN 484D Units: 1.5 Hours: 3-0
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, HISTR 471, HISTR 376B.
• Given in English.

SPAN 484E Units: 1.5 Hours: 3-0
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 Mari/Yuyogu to "Che" Guevara, a half-century of the Castro brothers and the long history of guerilla 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, HISTR 468, HISTR 376C.
• Given in English.

SPAN 485A Units: 1.5 Hours: 3-0
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.

SPAN 490C Units: 1.5 Hours: 3-1
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.
Pre- or Corequisite(s):
• SPAN 350B; or
• permission of the department.

SPAN 486 Units: 1.5 Hours: 3-0
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.

SPAN 487 Units: 1.5 Hours: 3-0
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'Albérni 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.

SPAN 490A Units: 1.5 Hours: 3-0
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 490A, SPAN 425.
• Open to native and near-native speakers.
Prerequisite(s):
• SPAN 249 or SPAN 250B; or
• permission of the department.

SPAN 489B Units: 1.5 Hours: 3-0
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 490B, SPAN 426.
• Open to native and near-native speakers.
Prerequisite(s):
• SPAN 350B; or
• permission of the department.
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 underground, exile, humour, or revolutions.

Note: Credit will be granted for only one of SPAN 491, ITAL 491.

Prerequisite(s):
- Minimum third-year standing; or
- permission of the department.

Recommendation(s): Recommended for Honours in Hispanic Studies, Majors and Minors in Italian Studies.

SPAN 495 Units: 1.5 or 3.0
Formerly: 430

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.

SPAN 499 Units: 1.5

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.

Statistics

Statistics
Department of Mathematics and Statistics
Faculty of Science

STAT 123 Units: 1.5 Hours: 3-1

Data Science

A manage of computational and inferential thinking that enables analysts to use data to make good decisions. Introduces and develops the foundational skills required to tackle complex data science projects. Topics covered include R programming, data visualization in R, data wrangling, statistical foundations and introductory regression modelling.

Note: Cannot be counted towards the 3-unit credit limit for lower-level statistics courses.

Not open for credit to students with credit in 300- or 400-level STAT course.

Prerequisite(s):
- One of MATH 120, Pre-calculus 12 with a minimum grade of C+ (67%), Principles of Mathematics 12 with a minimum grade of C+ (67%); or
- permission of the department.

STAT 252 Units: 1.5 Hours: 3-0

Statistics for Business

Descriptive statistics, probability, random variables, discrete and continuous probability distributions, random sampling and sampling distributions, point and interval estimation, hypothesis testing, statistical inference for comparing samples from two populations, simple linear regression, contingency tables. Examples will be taken from business applications. Students will be expected to analyze data using computing facilities.

Notes:
- Credit will be granted for only one of STAT 252, STAT 255.
- Not open to students registered in or with credit in one of 254, 250, 260.

See "Credit Limit - Beginning Level Statistics Courses".

Prerequisite(s): MATH 122 or MATH 151.

STAT 254 Units: 1.5 Hours: 3-0-1

Probability and Statistics for Engineers

Probability axioms, properties of probability, counting techniques, conditional probability, independence, random variables, discrete and continuous probability distributions, expectation, variance, binomial, hypergeometric, negative binomial, Poisson, uniform, normal, gamma and exponential distributions; discrete and continuous joint distributions; independent random variables, expectation of functions of random vectors, covariance, random samples and sampling distributions, central limit theorem; point and interval estimation; hypothesis testing; linear regression and correlation.

Notes:
- Credit will be granted for only one of STAT 254, STAT 250, STAT 260.
- See "Credit Limit - Beginning Level Statistics Courses".

Prerequisite(s): Admission to BEng program.

Corequisite(s): MATH 200.

STAT 255 Units: 1.5 Hours: 3-0

Statistics for Life Sciences I

Descriptive statistics; probability; random variables and probability distributions; expectation; binomial, Poisson, and normal distributions; random sampling and sampling distributions; point and interval estimation; classical hypothesis testing and significance testing. Statistical examples and applications from life sciences will be emphasized.

Notes:
- Credit will be granted for only one of STAT 255, STAT 252.
- Not open to students registered in or with credit in one of 254, 250, 260.

See "Credit Limit - Beginning Level Statistics Courses".

Prerequisite(s): Intended primarily for students in Biochemistry, Microbiology, Biology, and Environmental Studies.

Pre-requisite(s): One of STAT 252, STAT 254, STAT 255, STAT 260.

STAT 256 Units: 1.5 Hours: 3-1-0

Statistics for Life Sciences II

Estimation and hypothesis testing; analysis of variance and the design of experiments; regression and correlation; analysis of categorical data; distribution-free procedures. Statistical examples and applications from life sciences will be emphasized.

Notes:
- Credit will be granted for only one of STAT 256, STAT 251, STAT 261.
- Intended primarily for students in Biochemistry, Microbiology, Biology, and Environmental Studies.

Pre-requisite(s): One of STAT 252, STAT 254, STAT 255, STAT 260.

STAT 260 Units: 1.5 Hours: 3-0

Introduction to Probability and Statistics I

Descriptive statistics; elementary probability theory; random variables, discrete and continuous probability distributions, expectation, joint, marginal and conditional distributions; linear functions of random variables; random sampling and sampling distributions; point and interval estimation; classical hypothesis testing and significance testing. The mathematical foundations of statistical inference will be introduced and illustrated with examples from a variety of disciplines.

Notes:
- Credit will be granted for only one of STAT 260, STAT 250, STAT 254.
- See "Credit Limit - Beginning Level Statistics Courses".

Pre-requisite(s): One of MATH 101, MATH 103, MATH 140, MATH 208.

STAT 261 Units: 1.5 Hours: 3-1-0

Introduction to Probability and Statistics II

Estimation and hypothesis testing; normal sampling distribution theory; analysis of variance and the design of experiments; regression and correlation; analysis of categorical data; distribution-free procedures. The mathematical foundations of statistical inference will be introduced and illustrated with examples from a variety of disciplines.

Note: Credit will be granted for only one of STAT 261, STAT 251, STAT 256.

Pre-requisite(s):
- STAT 254 or STAT 260; and
- one of MATH 101, MATH 103, MATH 140, MATH 208.

STAT 350 Units: 1.5 Hours: 3-0

Mathematical Statistics I

Discrete and continuous probability models, random variables and their distributions, mathematical expectation, moment generating functions, sums of random variables, limit theory, and sampling distributions. Emphasis on the probability theory needed for 450.

Pre-requisite(s):
- One of STAT 252, STAT 254, STAT 255, STAT 260; and
- MATH 200 or MATH 205.
STAT 353 Units: 1.5 Hours: 3-0
Applied Regression Analysis
An outline of linear regression theory with applications; multiple linear regression, polynomial regression, model adequacy checking, variable transformation, variable selection, indicator variable, diagnostics for leverage and influential observations, multicollinearity problem, model selection, stepwise regression, prediction and inference
Prerequisite(s):
• STAT 256 or STAT 261; and
• one of MATH 110, MATH 133, MATH 211, MATH 233A; or
• permission of the department.

STAT 354 Units: 1.5 Hours: 3-0
Sampling Techniques
Principal steps in planning and conducting a sample survey. Sampling techniques including stratification, systematic sampling and multistage sampling. Practical survey designs with illustrations. Nonsampling errors.
Prerequisite(s):
• 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, SOCI 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 353; 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-to-failure data; censoring; survival, hazard rate and mean residual life functions; nonparametric estimation and comparisons of survival functions; covariates; parametric models; semi-parametric (Cox) regression model; time-dependent covariates.
Note: Students with credit for STAT 454 require permission of the department.
Prerequisite(s): STAT 350 and STAT 353.

STAT 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 105
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.
## COURSE LISTINGS THEA

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 111</td>
<td>1.5</td>
<td>3-0</td>
<td>Theatre History I: A survey of the history of western theatre from its beginnings to the Middle Ages. Early forms, conventions and styles are compared with those of the contemporary theatre. <strong>Note:</strong> Credit will be granted for only one of THEA 111, THEA 100, THEA 110.</td>
</tr>
<tr>
<td>THEA 120A</td>
<td>1.5</td>
<td>0-3</td>
<td>Formerly: THEA 120 Introduction to the Art of Acting I: An orientation to the art of acting and an introduction to the actor's creative process. <strong>Note:</strong> Credit will be granted for only one of THEA 120A, THEA 120. Prerequisite(s): THEA 120A.</td>
</tr>
<tr>
<td>THEA 120B</td>
<td>1.5</td>
<td>0-3</td>
<td>Formerly: THEA 120 Introduction to the Art of Acting II: A continuation of the Art of Acting I. <strong>Note:</strong> Credit will be granted for only one of THEA 120B, THEA 120A. Prerequisite(s): THEA 120A.</td>
</tr>
<tr>
<td>THEA 122</td>
<td>1.5</td>
<td>0-3</td>
<td>The Acting Experience: An examination of the fundamentals of the art of acting through self-exploration, improvisation, character and scene study. <strong>Note:</strong> Not open to students registered in or with credit in any of THEA 120, THEA 120A, THEA 120B, THEA 121.</td>
</tr>
<tr>
<td>THEA 132A</td>
<td>1.5</td>
<td>0-3</td>
<td>Formerly: THEA 132 Exploring Theatre Through Dramatic Process I: A course designed for students interested in the improvisational nature of theatre as it applies to working spontaneously or through text with an emphasis on collective creation. <strong>Note:</strong> Credit will be granted for only one of THEA 132A, THEA 132, THEA 181. Recommendation(s): Recommended for students considering careers in alternative theatre practices, theatre for social change, health education, museum education and young audiences, teaching, recreation, counselling, child and youth care.</td>
</tr>
<tr>
<td>THEA 132B</td>
<td>3.0</td>
<td>0-3</td>
<td>Formerly: THEA 132 Exploring Theatre Through Dramatic Process II: A continuation of the explorations of improvisation and collective creation. <strong>Note:</strong> Credit will be granted for only one of THEA 132B, THEA 132, THEA 181. Prerequisite(s): THEA 132A.</td>
</tr>
<tr>
<td>THEA 150</td>
<td>1.5</td>
<td>3-0</td>
<td>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.</td>
</tr>
<tr>
<td>THEA 205</td>
<td>3.0</td>
<td>0-3</td>
<td>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 program(s). <strong>Note:</strong> 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.</td>
</tr>
<tr>
<td>THEA 206</td>
<td>1.5</td>
<td>3-0</td>
<td>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.</td>
</tr>
<tr>
<td>THEA 218</td>
<td>1.5</td>
<td>0-4.5-0</td>
<td>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. <strong>Notes:</strong> • Credit will be granted for only one of THEA 218, THEA 220, THEA 221. • Not open to students with credit in THEA 218 or THEA 222. Intended for students not pursuing the Performance Focus. Enrolment limited. Prerequisite(s): • THEA 105; and • either all of THEA 111, THEA 120A, THEA 132A, or THEA 112 and THEA 120.</td>
</tr>
<tr>
<td>THEA 230</td>
<td>1.5</td>
<td>0-4.5-0</td>
<td>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 program(s). <strong>Note:</strong> 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.</td>
</tr>
<tr>
<td>THEA 225</td>
<td>1.5</td>
<td>0-4.5-0</td>
<td>Introduction to Stage Movement: Development of a basic movement vocabulary for the stage. <strong>Notes:</strong> • 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; or • admission to BFA program with Performance Focus.</td>
</tr>
<tr>
<td>THEA 226</td>
<td>1.5</td>
<td>0-3</td>
<td>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.</td>
</tr>
<tr>
<td>THEA 226A</td>
<td>1.5</td>
<td>0-4.5-0</td>
<td>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.</td>
</tr>
<tr>
<td>THEA 219</td>
<td>1.5</td>
<td>0-4.5-0</td>
<td>Acting II (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. <strong>Notes:</strong> • Credit will be granted for only one of THEA 219, THEA 220, THEA 221. • Not open to students with credit in THEA 219 or THEA 222. Intended for students not pursuing the Performance Focus. Enrolment limited. Prerequisite(s): • THEA 218; or • either all of THEA 111, THEA 120A, THEA 132A, or THEA 112 and THEA 120.</td>
</tr>
<tr>
<td>THEA 222</td>
<td>1.5</td>
<td>0-4.5-0</td>
<td>Acting II: A continuation of Theatre 219. Work in characterization and scene study. <strong>Note:</strong> Credit will be granted for only one of THEA 222, THEA 220. Prerequisite(s): THEA 221.</td>
</tr>
<tr>
<td>THEA 223</td>
<td>1.5</td>
<td>0-4.5-0</td>
<td>Introduction to Voice: Basic development of the voice. <strong>Notes:</strong> • Credit will be granted for only one of THEA 223, THEA 220. Prerequisite(s): THEA 221.</td>
</tr>
<tr>
<td>THEA 235</td>
<td>3.0</td>
<td>3-0</td>
<td>Introduction to Applied Theatre: A broad interpretive examination of the uses of theatre in a variety of educational and non-traditional settings. <strong>Notes:</strong> • Credit will be granted for only one of THEA 235, THEA 260. • Admission limited. 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.</td>
</tr>
</tbody>
</table>
### THEA 236 - THEA 238

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>THEA 236</strong> Theatre History II</td>
<td>1.5</td>
<td>3-0</td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **THEA 237** Introduction to Design I       | 1.5   | 1-3   |
| 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 238** Introduction to Design II      | 1.5   | 1-3   |
| 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 239** Theatre Laboratory             | 1.5 or 3.0 | 3.0 |
| 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 240** Acting for the Camera          | 1.5   | 3.0   |
| 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 241** Advanced Production and Management | 1.5 or 3.0 | 0-6-2 |
| 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 242** Pre-modern Japanese Theatre    | 1.5   | 3.0   |
| Surveys Japanese theatre history from earliest times until the nineteenth century. Introduction to the major forms, styles and theory of traditional Japanese theatre, including nō, kyōgen, bunraku and kabuki. Note: Credit will be granted for only one of THEA 312, JAPA 320A, PAAS 394. Prerequisite(s): • Minimum second-year standing; or • permission of the department. |

| **THEA 243** Studies in Theatre of the Ancient World | 1.5   | 3.0   |
| Theatre in ancient Greece or Rome. Notes: • Credit will be granted for only one of THEA 314, THEA 306. • May be taken more than once for credit in different topics to a maximum of 4.5 units. • Students should consult the department for the topic to be considered. Prerequisite(s): • THEA 211 or THEA 236; or • permission of the department. |

| **THEA 244** Studies in Medieval Theatre    | 1.5   | 3.0   |
| Theatre of the Middle Ages. Notes: • Credit will be granted for only one of THEA 315, THEA 307. • May be taken more than once for credit in different topics to a maximum of 4.5 units. • Students should consult the department for the topic to be considered. Prerequisite(s): • THEA 211 or THEA 236; or • permission of the department. |

| **THEA 245** Studies in the 17th and 18th centuries | 1.5   | 3.0   |
| Theatre of 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 246** Studies in the 19th-Century Theatre | 1.5   | 3.0   |
| 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. |

<p>| <strong>THEA 247</strong> Studies in Contemporary Theatre | 1.5   | 3.0   |
| 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. |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Units</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 319</td>
<td>1.5</td>
<td>3-0</td>
</tr>
<tr>
<td>Theatre of the Renaissance in Italy, France and England</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 319, THEA 308</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>May be taken more than once for credit in different topics to a maximum of 4.5 units.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>Students should consult the department for the topic to be considered.</td>
</tr>
<tr>
<td>THEA 320</td>
<td>1.5</td>
<td>0-4.5</td>
</tr>
<tr>
<td>Acting III</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>All of THEA 205, THEA 222, THEA 223, THEA 225, and either THEA 206 and THEA 236, or THEA 211.</td>
</tr>
<tr>
<td>THEA 321</td>
<td>1.5</td>
<td>0-4.5</td>
</tr>
<tr>
<td>Voice and Speech in the Theatre I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 231.</td>
</tr>
<tr>
<td>THEA 322</td>
<td>1.5</td>
<td>0-4.5</td>
</tr>
<tr>
<td>Acting IV</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>All of THEA 205, THEA 222, THEA 223, THEA 225, and either THEA 206 and THEA 236, or THEA 211.</td>
</tr>
<tr>
<td>THEA 323</td>
<td>1.5</td>
<td>0-4.5</td>
</tr>
<tr>
<td>Voice and Speech in the Theatre II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 323.</td>
</tr>
<tr>
<td>THEA 324</td>
<td>1.5</td>
<td>0-4.5</td>
</tr>
<tr>
<td>Voice and Speech in the Theatre II</td>
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<td></td>
</tr>
<tr>
<td>Prerequisite(s):</td>
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<td>THEA 324.</td>
</tr>
<tr>
<td>THEA 325</td>
<td>1.5</td>
<td>0-4.5-0</td>
</tr>
<tr>
<td>Stage Movement I</td>
<td></td>
<td>Intermediate stage movement.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 325, THEA 360.</td>
</tr>
<tr>
<td>THEA 326</td>
<td>1.5</td>
<td>0-4.5-0</td>
</tr>
<tr>
<td>Stage Movement II</td>
<td></td>
<td>A continuation of 325. Intermediate stage movement.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 326, THEA 360.</td>
</tr>
<tr>
<td>THEA 327</td>
<td>1.5</td>
<td>0-3</td>
</tr>
<tr>
<td>Introduction to Physical Theatre Creation</td>
<td></td>
<td>A practical course in collaborative methods of theatre-making and performance.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>Minimum second-year standing.</td>
</tr>
<tr>
<td>THEA 328</td>
<td>1.5</td>
<td>3-0</td>
</tr>
<tr>
<td>Theatre of Indonesia</td>
<td></td>
<td>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-art theatre and drama. Readings of plays in translation will be supplemented by videos, films, and slides of performances.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>Minimum second-year standing, or permission of the department.</td>
</tr>
<tr>
<td>THEA 329</td>
<td>1.5</td>
<td>3-0</td>
</tr>
<tr>
<td>Theatre Performance</td>
<td></td>
<td>Supervised performance in department productions.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>May be taken more than once for credit to a maximum of 3 units.</td>
</tr>
<tr>
<td>THEA 330</td>
<td>1.5</td>
<td>1-2</td>
</tr>
<tr>
<td>Directing I</td>
<td></td>
<td>Fundamental textual analysis, stage composition, movement and rhythm, methods of rehearsal procedure and basic techniques of working with the actor.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 205; and either THEA 206 and THEA 236, or THEA 211.</td>
</tr>
<tr>
<td>THEA 331</td>
<td>1.5</td>
<td>1-2</td>
</tr>
<tr>
<td>Directing II</td>
<td></td>
<td>A continuation of 331. Fundamental textual analysis, stage composition, movement and rhythm, methods of rehearsal procedure and basic techniques of working with the actor.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 205; and either THEA 206 and THEA 236, or THEA 211.</td>
</tr>
<tr>
<td>THEA 332</td>
<td>1.5</td>
<td>3-0</td>
</tr>
<tr>
<td>History of Dance in Canada</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 211, or permission of the department.</td>
</tr>
<tr>
<td>THEA 333</td>
<td>1.5</td>
<td>3-0</td>
</tr>
<tr>
<td>Theatre of Indonesia</td>
<td></td>
<td>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-art theatre and drama. Readings of plays in translation will be supplemented by videos, films, and slides of performances.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>Minimum second-year standing, or permission of the department.</td>
</tr>
<tr>
<td>THEA 334</td>
<td>1.5</td>
<td>3-0</td>
</tr>
<tr>
<td>Director and Designer Relationship II</td>
<td></td>
<td>By focusing 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 seminal creative partnership.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 234, and permission of the department.</td>
</tr>
<tr>
<td>THEA 335</td>
<td>1.5</td>
<td>3-0</td>
</tr>
<tr>
<td>History of the Broadway Musical</td>
<td></td>
<td>An examination of the Broadway Musical from its genesis in the mid-nineteenth century to the present day.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 205 and THEA 235, and either all of THEA 206, THEA 234, THEA 236, or THEA 211.</td>
</tr>
<tr>
<td>THEA 336</td>
<td>1.5</td>
<td>3-0</td>
</tr>
<tr>
<td>Theatre History III</td>
<td></td>
<td>A survey of western theatre history from Corneille to the Victorians. Introduction to library research methods in theatre history.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>Minimum second-year standing.</td>
</tr>
<tr>
<td>THEA 337</td>
<td>1.5</td>
<td>3-0</td>
</tr>
<tr>
<td>Performances in Popular Culture</td>
<td></td>
<td>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.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 211 or THEA 236, or permission of the department.</td>
</tr>
<tr>
<td>THEA 338</td>
<td>1.5</td>
<td>3-0</td>
</tr>
<tr>
<td>The Broadway Producer</td>
<td></td>
<td>An examination of the role of for-profit producers in the creation of shows on Broadway in New York City.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 205 and THEA 360.</td>
</tr>
<tr>
<td>THEA 339</td>
<td>1.5</td>
<td>3-0</td>
</tr>
<tr>
<td>Theatre of the Renaissance in Italy, France and England</td>
<td></td>
<td>The Renaissance in the theatre of Italy, France and England.</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
<td>Credit will be granted for only one of THEA 319, THEA 308.</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
<td>May be taken more than once for credit in different topics to a maximum of 4.5 units.</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
<td>Students should consult the department for the topic to be considered.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 211 or THEA 236, or permission of the department.</td>
</tr>
<tr>
<td>THEA 320</td>
<td>1.5</td>
<td>0-4.5</td>
</tr>
<tr>
<td>Acting III</td>
<td></td>
<td>A continuation of 321. The study of acting as related to specific theatrical genres, styles or periods.</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
<td>Credit will be granted for only one of THEA 321, THEA 320.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 321.</td>
</tr>
<tr>
<td>THEA 321</td>
<td>1.5</td>
<td>0-4.5</td>
</tr>
<tr>
<td>Voice and Speech in the Theatre I</td>
<td></td>
<td>Work in voice and speech as related to specific theatrical genres, styles or periods.</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
<td>Credit will be granted for only one of THEA 323, THEA 350.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>All of THEA 205, THEA 222, THEA 223, THEA 225, and either THEA 206 and THEA 236, or THEA 211.</td>
</tr>
<tr>
<td>THEA 322</td>
<td>1.5</td>
<td>0-4.5</td>
</tr>
<tr>
<td>Acting IV</td>
<td></td>
<td>A continuation of 321. The study of acting as related to specific theatrical genres, styles or periods.</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
<td>Credit will be granted for only one of THEA 322, THEA 320.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 321.</td>
</tr>
<tr>
<td>THEA 323</td>
<td>1.5</td>
<td>0-4.5</td>
</tr>
<tr>
<td>Voice and Speech in the Theatre II</td>
<td></td>
<td>A continuation of 322. Work in voice and speech as related to specific theatrical genres, styles or periods.</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
<td>Credit will be granted for only one of THEA 323, THEA 350.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 323.</td>
</tr>
<tr>
<td>THEA 324</td>
<td>1.5</td>
<td>0-4.5</td>
</tr>
<tr>
<td>Voice and Speech in the Theatre II</td>
<td></td>
<td>A continuation of 322. Work in voice and speech as related to specific theatrical genres, styles or periods.</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
<td>Credit will be granted for only one of THEA 324, THEA 350.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 323.</td>
</tr>
<tr>
<td>THEA 325</td>
<td>1.5</td>
<td>0-4.5-0</td>
</tr>
<tr>
<td>Stage Movement I</td>
<td></td>
<td>Intermediate stage movement.</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
<td>Credit will be granted for only one of THEA 325, THEA 360.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>All of THEA 205, THEA 222, THEA 223, THEA 225, and either THEA 206 and THEA 236, or THEA 211.</td>
</tr>
<tr>
<td>THEA 326</td>
<td>1.5</td>
<td>0-4.5-0</td>
</tr>
<tr>
<td>Stage Movement II</td>
<td></td>
<td>A continuation of 325. Intermediate stage movement.</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
<td>Credit will be granted for only one of THEA 326, THEA 360.</td>
</tr>
<tr>
<td>Prerequisite(s):</td>
<td></td>
<td>THEA 325.</td>
</tr>
</tbody>
</table>
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): THEA 351.

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  Units: 1.5 or 3.0  Hours: 0-3
Assisting the Scenic Designer
Assisting the scenic designer of a mainstage production.
Note: May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s): THEA 351 and THEA 352; and permission of the department.
Recommendation(s): THEA 334 recommended prior to THEA 353.

THEA 354  Units: 1.5 or 3.0  Hours: 0-3
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.
Prerequisite(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):
•  Either THEA 211, or THEA 234 and THEA 236; and
•  THEA 332; 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 in different topics to a maximum of 6 units.
Prerequisite(s): Permission of the department.

THEA 395  Units: 1.5 or 3.0
Directed Studies in Production and/or Management
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 396  Units: 1.5 or 3.0
Directed Studies in Scene Design
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 397  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 Units: 1.5 Hours: 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 Units: 1.5 Hours: 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 to a maximum of 4.5 units.

**Prerequisite(s):**
- THEA 211 or THEA 236; or
- permission of the department.

### THEA 411 Units: 1.5 Hours: 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 to a maximum of 4.5 units.

**Prerequisite(s):**
- THEA 211 or THEA 236; or
- permission of the department.

### THEA 412 Units: 1.5 Hours: 3-0
**Also: PAAS 486**

**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 butö. 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 Units: 1.5 Hours: 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 Units: 1.5 Hours: 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 Units: 1.5 Hours: 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 211 or THEA 336; and
- permission of the department.

### THEA 421 Units: 1.5 Hours: 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 Units: 1.5 Hours: 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 Units: 1.5 Hours: 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 Units: 1.5 Hours: 0-4.5
**Voice and Speech in the Theatre IV**

A continuation of 423. Advanced work in voice production and speech for the stage.

**Note:** Credit will be granted for only one of THEA 424, THEA 450.

**Prerequisite(s):** THEA 423.

### THEA 425 Units: 1.5 Hours: 0-4.5-0
**Stage Movement III**

Advanced techniques and improvisation in stage movement.

**Note:** Credit will be granted for only one of THEA 425, THEA 460.

**Prerequisite(s):** All of THEA 322, THEA 324, THEA 326.

### THEA 426 Units: 1.5 Hours: 0-4.5-0
**Stage Movement IV**

A continuation of 425. Advanced technique and improvisation in stage movement.

**Note:** Credit will be granted for only one of THEA 426, THEA 460.

**Prerequisite(s):** THEA 425.

### THEA 429 Units: 1.5
**Theatre Performance**

Supervised performance in department productions.

**Note:** May be taken more than once for credit to a maximum of 3 units; however, credit will be granted for no more than 6 units of any combination of THEA 329 and THEA 429.

**Prerequisite(s):**
- THEA 329; and
- permission of the department.

**Grading:** COM, N, F

### THEA 431 Units: 1.5 Hours: 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 Units: 1.5 or 3.0 Hours: 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 - VIRS 304

THEA 433 Units: 1.5 or 3.0 Hours: 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 Units: 3.0 Hours: 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 Units: 1.5 Hours: 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 437 Units: 1.5-6.0 Hours: 0-3 to 12
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 352; and
• permission of the department.

THEA 444 Units: 1.5 or 3.0 Hours: 0-3
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 445 Units: 1.5 to 6.0 Hours: 0-1.5 to 12
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 onto the stage.
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 465.

THEA 490 Units: 1.5 or 3.0
Graduating Project
Students in their final year may undertake a special project according to their areas of interest.
Prerequisite(s): Permission of the department.

THEA 499 Units: 1.5 or 3.0
Theatre Laboratory
Under the supervision of faculty, students will participate in projects that will include both their particular areas of interest and other aspects of the theatre.
Note: May be taken more than once for credit to a maximum of 6 units.
Prerequisite(s): Permission of the department.

VIRS

VIRS 304 Units: 6.0
Visiting International Research Studies: Human and Social Development
Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.
Notes:
• May be taken more than once for credit to a maximum of 12.0 units.
• 0.0 fee units
Prerequisite(s):
• Status as a visiting international research student; and
• permission of the department, program, or school.
Grading: INP, COM, N, F

VIRS 301 Units: 6.0
Visiting International Research Studies: Education
Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.
Notes:
• May be taken more than once for credit to a maximum of 12.0 units.
• 0.0 fee units
Prerequisite(s):
• Status as a visiting international research student; and
• permission of the department, program, or school.
Grading: INP, COM, N, F

VIRS 302 Units: 6.0
Visiting International Research Studies: Engineering
Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.
Notes:
• May be taken more than once for credit to a maximum of 12.0 units.
• 0.0 fee units
Prerequisite(s):
• Status as a visiting international research student; and
• permission of the department, program, or school.
Grading: INP, COM, N, F

VIRS 303 Units: 6.0
Visiting International Research Studies: Fine Arts
Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.
Notes:
• May be taken more than once for credit to a maximum of 12.0 units.
• 0.0 fee units
Prerequisite(s):
• Status as a visiting international research student; and
• permission of the department, program, or school.
Grading: INP, COM, N, F

VIRS 304 Units: 6.0
Visiting International Research Studies: Interdisciplinary Programs
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  Units: 6.0
Visiting International Research Studies: Humanities
Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.
Notes:
• May be taken more than once for credit to a maximum of 12.0 units.
• 0.0 fee units
Prerequisite(s):
• Status as a visiting international research student; and
• permission of the department, program, or school.
Grading: INP, COM, N, F.

VIRS 306  Units: 6.0
Visiting International Research Studies: Law
Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.
Notes:
• May be taken more than once for credit to a maximum of 12.0 units.
• 0.0 fee units
Prerequisite(s):
• Status as a visiting international research student; and
• permission of the department, program, or school.
Grading: INP, COM, N, F.

VIRS 307  Units: 6.0
Visiting International Research Studies: Science
Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.
Notes:
• May be taken more than once for credit to a maximum of 12.0 units.
• 0.0 fee units
Prerequisite(s):
• Status as a visiting international research student; and
• permission of the department, program, or school.
Grading: INP, COM, N, F.

VIRS 308  Units: 6.0
Visiting International Research Studies: Social Sciences
Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.
Notes:
• May be taken more than once for credit to a maximum of 12.0 units.
• 0.0 fee units
Prerequisite(s):
• Status as a visiting international research student; and
• permission of the department, program, or school.
Grading: INP, COM, N, F.

VIRS 309  Units: 6.0
Visiting International Research Studies: Peter B. Gustavson School of Business
Visiting international students participate in undergraduate research in Canada under the supervision of UVic instructors.
Notes:
• May be taken more than once for credit to a maximum of 12.0 units.
• 0.0 fee units
Prerequisite(s):
• Status as a visiting international research student; and
• permission of the department, program, or school.
Grading: INP, COM, N, F.

WRIT 305 - WRIT 303

WRIT 100  Units: 3.0  Hours: 3-0
Introduction to Writing
A non-historical survey of the basic structures in poetry, playwriting, screenwriting, creative non-fiction and fiction that involves the students in the writing and criticism of compositions in all five genres.
Note: Credit will be granted for only one of WRIT 100, CW 100.

WRIT 102  Units: 1.5  Hours: 3-0
Formerly: 103, 104.
Introduction to Professional Nonfiction
Introduces students to the theory and practice of journalism, as well as media history and analysis.
Note: Credit will be granted for only one of WRIT 102, WRIT 101, WRIT 103, WRIT 104.

WRIT 109  Units: 1.5  Hours: 3-0
The Writer’s World in Books and Film
This course 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 of B; or
• all of THEA 105, THEA 111, THEA 112, THEA 120 with a minimum GPA of 3.0.

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 219  Units: 1.5  Hours: 3-0
Narrative and Mythic Structure in Film Writing
A course in global cinema examining archetypal and mythic structure in classic narrative film writing.
Prerequisite(s): Minimum second-year standing.

WRIT 302  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 303  Units: 1.5  Hours: 0-3
Poetry Workshop
A seminar 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.
<table>
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<th>Hours</th>
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<td><strong>WRIT 320</strong></td>
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<td>Writing Minor, not both.</td>
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<td><strong>WRIT 321</strong></td>
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<td>Issues in Journalism</td>
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<td><strong>WRIT 322</strong></td>
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<td>3-0-1</td>
<td>Magazine Publishing</td>
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</table>
WRIT 324  Units: 1.5  Hours: 2-1
Writing Interactive Narrative
A workshop/seminar in writing for digital media, hyper-literature, video games, interactive installations and experiences.
Prerequisite(s):
• 3 units from WRIT 201, WRIT 202, WRIT 203, WRIT 204, WRIT 215, WRIT 218, WRIT 322, WRIT 326; or
• permission of the department.

WRIT 325  Units: 1.5  Hours: 3-0-1
Writing for Theatrical Production Workshop
A workshop/seminar focusing on bringing a script from the page to the stage and including a staged reading by students.
Note: Class size is limited.
Prerequisite(s):
• WRIT 203; or
• permission of department.

WRIT 326  Units: 1.5  Hours: 1-2
Media Production for Writers
A practice-based course for writers and artists that explores digital audio, photography and video production.
Prerequisite(s): Minimum second-year standing.

WRIT 329  Units: 1.5  Hours: 3-0
International Film Writing
A lecture course surveying film writing in a representative group of films.
Prerequisite(s): Minimum second-year standing.

WRIT 330  Units: 1.5  Hours: 3-0
Media and Culture
A lecture course surveying theories and controversies in mass media and popular culture from a writer's perspective.
Note: May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
Prerequisite(s): Minimum second-year standing.

WRIT 331  Units: 1.5  Hours: 3-0
Formerly: 231.
A Study of Narrative
A lecture course that studies the elements of narrative in fiction, drama, screenwriting, poetry and creative nonfiction.
Note: Credit will be granted for only one of WRIT 331, WRIT 231.
Prerequisite(s): Minimum second-year standing.

WRIT 335  Units: 1.5  Hours: 3-0
Forms and Techniques in Short Creative Nonfiction
A lecture course surveying short forms of creative nonfiction.
Prerequisite(s): Minimum second-year standing.

WRIT 336  Units: 1.5  Hours: 3-0
Forms and Techniques in Long Creative Nonfiction
A lecture course surveying long forms of creative nonfiction.
Prerequisite(s): Minimum second-year standing.

WRIT 340  Units: 1.5  Hours: 3-0
Formerly: 240.
Elements of Style
A lecture course exploring the effective use of stylistic elements in literary writing of all genres.
Note: Credit will be granted for only one of WRIT 340, WRIT 240.
Prerequisite(s): Minimum second-year standing.

WRIT 350  Units: 1.5  Hours: 3-0
Formerly: 200.
The Theory and Practice of Literary Creation
A lecture course surveying the nature of the creative process.
Note: Credit will be granted for only one of WRIT 350, WRIT 200.
Prerequisite(s): Minimum second-year standing.

WRIT 353  Units: 1.5  Hours: 3-0
Formerly: 230.
Writing a Sense of Place
A lecture course surveying writers who have made the natural world and a sense of place strong elements in one or more works.
Note: Credit will be granted for only one of WRIT 353, WRIT 230.
Prerequisite(s): Minimum second-year standing.

WRIT 390  Units: 3.0
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 for work which can not be completed as part of a regular course.
Notes:
• Credit will be granted for only one of WRIT 390, CW 390.
• Students who have completed 4.5 units of workshop credit, third- or fourth-year standing, an A average in the area of specialization may request permission to register in the course.
Prerequisite(s): Permission of the department.

WRIT 391  Units: 1.5
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 for work which can not be completed as part of a regular course.
Notes:
• Credit will be granted for only one of WRIT 391, CW 391.
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Students who have completed 4.5 units of workshop credit, third- or fourth-year standing, an A average in the area of specialization may request permission to register in the course.
Prerequisite(s): Permission of the department.

WRIT 390 - WRIT 412 595
COURSE LISTINGS WRIT
WRIT 415    Units: 1.5    Hours: 3-0
Literary Adaptation
A lecture course in the theory and craft of adapting prose narratives for the screen or stage.
Notes:
• Credit will be granted for only one of WRIT 415, WRIT 412 (if taken in Sep-Dec 2015).
• May be taken more than once for credit in different topics with permission of the department to a maximum of 3 units.
Prerequisite(s): Minimum second-year standing.

WRIT 416    Units: 1.5    Hours: 0-3
Advanced Creative Nonfiction Workshop
A workshop in which the students are instructed in the writing of creative nonfiction.
Notes:
• May be taken more than once for credit with permission of the department to a maximum of 3 units.
• Normally class size is limited.
Prerequisite(s): 3 units of WRIT 316.

WRIT 418    Units: 1.5    Hours: 0-3
Advanced Screenwriting Workshop
A workshop in writing for the screen.
Notes:
• May be taken more than once for credit with permission of the department to a maximum of 3 units.
• Normally class size is limited.
Prerequisite(s):
• Either 3 units of WRIT 318, or 1.5 units of WRIT 318 and 1.5 units of WRIT 320; or
• permission of department.

WRIT 420    Units: 1.5    Hours: 0-3
Film Writing and Production Workshop
An advanced workshop in narrative film writing and the techniques of film production. Focuses on script analysis, screen-directing technique and film production.
Prerequisite(s): WRIT 320.

WRIT 440    Units: 1.5    Hours: 3-0
The Writing Business
A lecture course that prepares students for careers as writers.
Prerequisite(s): Minimum second-year standing.

WRIT 490    Units: 3.0
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 for work which can not be completed as part of a regular course.
Notes:
• Credit will be granted for only one of WRIT 490, CW 490.
• Students who have completed 7.5 units of workshop credit, third- or fourth-year standing, an A average in the area of specialization may request permission to register in the course.
Prerequisite(s): Permission of the department.

WRIT 491    Units: 1.5
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 for work which can not be completed as part of a regular course.
Notes:
• Credit will be granted for only one of WRIT 491, CW 491.
• May be taken more than once for credit in different topics to a maximum of 3 units.
• Students who have completed 7.5 units of workshop credit, third- or fourth-year standing, an A average in the area of specialization may request permission to register in the course.
Prerequisite(s): Permission of the department.