Faculty of Arts and Science
Calendar 2011-2012

Academic Calendar
Advisor Reference Version

This book belongs to:

__________________________________________

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Faculty of Arts and Science
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Calendar 2011-2012

ONE HUNDRED AND SEVENTY FIRST SESSION

Timetable Information
Not every course listed in this Calendar is offered every year. For the most up-to-date information on course offerings, students are advised to view the 2011-2012 course timetable on SOLUS or consult with the appropriate department.

Curriculum Changes
Students should be aware that course offerings and program requirements change from time to time. Departments work in conjunction with the Faculty Curriculum Committee to ensure that changes in the curriculum are made with the least amount of disruption to continuing students.

Enrolment Limits and Cancellation of Underenrolled Courses
The University reserves the right to limit enrolment in any class which becomes oversubscribed, even if the course description does not indicate a limited enrolment. As well, underenrolled courses may be cancelled.

Contents
Introduction ii
Definitions v
Academic Calendar Dates vii
Admission Regulations 1
Academic Regulations 12
Appeal Regulations 32
Dual and Second Degree Regulations 40
Department Information 44
Academic Degree Programs 77
Degree Plans 81
Certificates 164
Course Lists 166
Courses of Instruction 176
Index 336

Mailing Address
Queen’s University
Kingston, Ontario
Canada K7L 3N6
**Introduction**

The purpose of this *Calendar* is to provide details for programs offered by the Faculty of Arts and Science of Queen's University. It contains information concerning admission requirements, academic regulations, programs and courses of study, study abroad, and other matters of general interest to students who are registered in, or who are contemplating, a program in Arts or Science at Queen's. It is strongly suggested that students read the University's Code of Conduct on the internet at www.queensu.ca/secretariat/senate/policies, and familiarize themselves with the statement of Student Responsibility and the Faculty's Regulations.

Students who are contemplating an Arts or Science program at Queen's might wish to consult the 2011-2012 *Viewbook*, a booklet published by the University that deals with admission requirements for all Faculties and Schools, the University's facilities and services (including residences), and entrance scholarships and financial assistance. Other publications of interest to prospective students are available at department offices or from the Faculty Office.

Communications regarding academic matters pertaining to Arts and Science programs should be directed to:

Office of the Associate Dean (Studies)  
Faculty of Arts and Science  
F200 Mackintosh-Corry Hall, Queen's University  
Kingston, Ontario  
K7L 3N6

Telephone  613-533-2470  
Fax  613-533-2467  
E-Mail  mailto:artsci@queensu.ca  
www.queensu.ca/artsci/

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**SOLUS**

SOLUS, the Student Online University System provides students with a portal to, amongst other services, review their current academic standing, determine fees owing, register in or drop courses, participate in Plan selection (first years only), and to review their progress towards a degree. More information on SOLUS may be obtained from the Office of the University Registrar.
How to use the Arts and Science Calendar

The Arts and Science Calendar is divided into a number of sections, which are described in detail below:

Admission Regulations
The Admission Regulations govern the admission of students into the Faculty of Arts and Science, whether directly from high school, from another postsecondary institution, or from another Faculty or School within Queen’s University.

Academic Regulations
The Academic Regulations govern student conduct and academic progression within the Faculty. Attention is drawn in particular to Academic Regulation 1 (Academic Integrity); 2 (Enrolment and Registration Priorities); 10 (System of Grading); 13 (Academic Standing) and 16 (Requirements for Graduation). Students must comply with all the academic regulations of the Faculty, as well as those Senate Policies that govern student conduct and academic progression within the University as a whole. Senate Policies may be found at: http://www.queensu.ca/secretariat senate/policies/

Appeal Regulations
The Appeal Regulations govern the process by which students may appeal decisions regarding academic integrity and other academic matters. These might include: the grade received in an assignment, exam or course; to add or drop a course after the academic deadline; to waive a requirement to withdraw; or to request aegrotat or credit standing in a course. Student’s attention is also drawn to the Senate policy on Students’ Appeals, Rights and Discipline (SARD), available from the Senate website at: http://www.queensu.ca/secretariat senate/policies/

Dual and Second Degree Regulations
These regulations outline the special regulations for a student who is attempting more than one undergraduate degree within the Faculty of Arts and Science, either concurrently with a degree from another Faculty or School (Dual Degree) or consecutively when the first degree was obtained either from Queen’s University or elsewhere (Second Degree). This section also contains information on the degree upgrade process, wherein a student holding a General (3-year) undergraduate degree from the Faculty of Arts and Science at Queen’s may upgrade it to an Honours (4-year) degree.

Departmental Chapters
Each Department or other academic unit that offers Plans or other academic programs through the Faculty of Arts and Science is listed in the Calendar. The Departmental chapters contain contact information for the department, a brief overview of the department or unit’s academic mission, and useful information for students regarding departmental policies, Plans and other study opportunities.

Degree Programs
This section of the Calendar outlines the basic requirements for all Degree Programs offered by the Faculty of Arts and Science. These requirements are reproduced within the Academic Advisement Tool on SOLUS, under the “Total Unit Count” and (when applicable) “Other Program Requirements” headings. The “Total Unit Count” counts all courses required for the degree, both elective and Plan components. The “Other Program Requirements” appears if students have failed to achieve other breadth or minimum requirements, or have exceeded the maximum number of courses allowed in a certain category.

Degree Plans
All Degree Programs in the Faculty of Arts and Science require courses to be chosen from one or more Plans. This section of the calendar outlines the detailed requirements for each Plan, and indicates in which degree program(s) they may be used. The Department or other academic unit responsible for the administration of the Plan is also listed. Students should, in the first instance, contact this department if they require further information. Each Plan is divided into six sections. Sections 1 through 4 are reproduced within the Academic Advisement Tool on SOLUS in much the same format as may be found in this Calendar:

1. Core Courses: These are required courses in the Plan, for which there is little or no choice in the course that must be taken. Each line lists the courses that must be taken to fulfill the requirement. Individual courses are separated by an “or” statement, an “and” statement (comma) or an “and/or” statement (semicolon). Brackets may also be used in some cases to collect course requirements. Each requirement line is reproduced within the Academic Advisement Tool.

2. Option Courses: These are required courses in the Plan, but there is significant choice allowed in the course(s) that may be taken. Again, each requirement line is reproduced within the Academic Advisement Tool. Quite often the list of courses is quite long, so more general notation is used, such as “6.0 units from HIST at the 200-level”, which means that any course in History at the 200-level may meet this particular requirement.

Course Lists
Some departments allow lists of courses in many different subjects to meet a requirement. Such lists are too long to be written out in full on SOLUS, so appear as a course list in the Calendar. For example, GPHYPhysical is a course list of all the courses that may be used to fulfill the physical geography requirements of a Geography or Environmental Sciences Plan. The detailed course lists are arranged alphabetically in the Calendar following the Plans section and should be used in conjunction with the Plans section of the Calendar and the Academic Advisement Tool on SOLUS.

Option Lists
In some cases, there are two or more sets of options listed, and there is a choice of fulfilling one of these sets of options to achieve the Plan requirements. This is known as an option list. For example, the Economics Major Plan requires a student to complete either a Thesis or Seminar Option. In the Academic Advisement Tool, all the possible option lists appear, and courses fill in on all option lists until all the requirements of one option list are met. Once the requirements of one option list are fulfilled, all the remaining option lists disappear from the report.

3. Supporting Courses: these are courses from other disciplines that are usually required as prerequisites to upper-year courses within the Plan. Supporting courses are listed in the Academic Advisement Tool again much as they appear in the Calendar. Supporting courses may be shared with the core, option or supporting requirements of any other Arts and Science Plan when students are following major-minor or medial Plan combinations.
4. Other Requirements: These are other course requirements that must be met in addition to, and are shared with, the core, option and supporting components of a Plan. Such requirements might include a minimum number of units at a certain year level, a minimum or maximum number of courses allowable from a certain course list, or other breadth requirements. The other requirements section in the Academic Advisement report only appears when students have failed to meet the requirement in question, or if they have broken a maximum rule. Once the requirement is fulfilled, it disappears from the report.

5. Substitutions: In a few cases, Plans have option requirements that cannot be programmed automatically into SOLUS. In these cases, alternate choices are listed in the Substitutions portion of the Plan requirements. If a student believes a substitution is warranted in their Plan, they should contact the Department administering that Plan and request a manual exception to be entered.

6. Notes: this section contains other useful information or academic advice pertaining to a Plan.

Course Lists
This section of the Calendar contains the detailed lists of courses that may be used to fulfill the various Plan requirements. It should be used in conjunction with the Degree Plans section of the Calendar and the Academic Advisement Tool in SOLUS.

Courses of Instruction
This section of the Calendar contains details of all courses offered through the Faculty of Arts and Science. A course entry may contain the following items:

1. Course number. Courses are numbered as follows:

   Courses numbered from P01 to P09 are pre-university level courses offered at the discretion of the Department, and are primarily intended for students who do not have Ontario 4U equivalent standing in the subject. Unless otherwise indicated, these courses are offered for credit as electives in any degree program.

   Courses numbered P10 to P99 are intended primarily as electives and normally do not lead to further courses in the subject, unless under special conditions laid down by the Department.

   Courses numbered 100 to 199 are introductory courses, normally taken in first year. They may be differentiated by method and/or intention, but all lead to further work.

   Courses numbered 200 to 299 are normally taken in the second year and usually require a previous course in the subject. They are standard second-year courses for all plans.

   Courses numbered 300 to 399 are normally taken in the third year and have prerequisites determined by the Departments. They are required in the third year of four-year programs, but are not necessarily required in three-year programs.

   Courses numbered 400 to 499 are normally taken in fourth year and are primarily intended as senior courses in the four-year programs. However, they are open to all students who meet the prerequisites.

   Courses numbered 500 to 590 are reading or undergraduate thesis courses.

   Courses numbered 591 to 593 are general examinations in the honours programs.

   Course numbers for independent study include the following: 594/3.0 – 3.0-unit course; 595/6.0 - 6.0-unit course; 596/12.0 - 12.0-unit course; 597/18.0 – 18.0-unit course; 598/9.0 – 9.0-unit course.

   When a course number is changed, the former number for the course will appear under Exclusions or Equivalency following the course description for five years subsequent to the change. Students who take longer than five years to complete a degree plan are advised to consult departmental academic advisers to ensure that the courses they select do not duplicate work previously completed.

2. Course Weights: follow the course number and are separated by a stroke, for example, HIST 121/6.0 or CISC 121/3.0. Some courses have weights that are percentages or multiples of 3.0, for example, MUSC 363/1.5 or MICR 499/9.0 or BIOL 537/12.0.

3. Course Title

4. Course components and number of contact hours per week: L = Lecture; T = Tutorial; P = Practical (Lab); S = Seminar

5. Course Description

6. Notes: when present, these indicate if the course is available at the Bader International Study Centre, if it is available through correspondence/online or if there are any fees or special requirements associated with the course.

7. Recommendations: when present, these may include recommended high school background or other courses that are recommended prerequisites for the course. However, the student is not obliged to hold these prerequisites in order to register in the course.

8. Prerequisite statements: many courses have prerequisites, that is previously completed courses or other requirements that must be met before a student may enroll in a course. Students who do not meet these requirements will not be allowed to register on SOLUS for the course.

9. Exclusion statements: some courses have exclusions, that is a list of one or more other courses whose content overlaps sufficiently that only one of them may be used as credit towards a degree program. Students will not be allowed to register on SOLUS in two courses that exclude one another. If a student does complete both courses, only one will be counted towards the degree Program. In such a case, the Academic Advisement Report on SOLUS will indicate an exclusion warning.

10. One-way Exclusion statements: a few courses, particularly language acquisition courses, must be taken in the correct order if credit is to be given for both. A One-way Exclusion indicates that a student may not register in the course if they have already completed one or more of the courses listed in the one-way exclusion statement. Registration will be blocked on SOLUS. However, the student may take the courses in the opposite order, i.e. they may first take the course listed on the one-way exclusion statement followed by the course in question. Courses listed on One-way exclusions, if taken in the correct order, will both be credited towards the requirements of a degree Program.
### Definitions

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>admission</td>
<td>the Faculty’s acceptance of an applicant as a student</td>
</tr>
<tr>
<td>auditor</td>
<td>a student who attends a course with the consent of the instructor; formal registration required but student does not receive credit for course and is not entitled to submit exercises or write examinations</td>
</tr>
<tr>
<td>class</td>
<td>a particular offering of a given course</td>
</tr>
<tr>
<td>corequisite</td>
<td>a requirement that must be fulfilled concurrently with another course</td>
</tr>
<tr>
<td>course</td>
<td>a proscribed set of study and evaluation, used for academic credit towards a degree Program.</td>
</tr>
<tr>
<td>core</td>
<td>a course that is required, or is selected from an extremely limited list of courses, in a Plan</td>
</tr>
<tr>
<td>elective</td>
<td>a course freely chosen by the student</td>
</tr>
<tr>
<td>equivalency</td>
<td>a pair of courses of equal unit value, one of which is no longer offered, which are considered to be similar enough that one may serve interchangeably for the other in terms of prerequisites, corequisites, exclusions, and plan and program requirements. Credit will only be given for one of the pair.</td>
</tr>
<tr>
<td>exclusion</td>
<td>a list of two or more courses that are considered similar enough that credit will only be given for a defined subset of courses from that list. Usually, holding credit for an excluded course(s) will prevent registration of the remaining courses on the list</td>
</tr>
<tr>
<td>GPA (grade point average)</td>
<td>the unit-weighted average grade in a set of courses determined by the number of passed units completed:</td>
</tr>
<tr>
<td>0.0 - 23.9</td>
<td>(level 1)</td>
</tr>
<tr>
<td>24.0 - 47.9</td>
<td>(level 2)</td>
</tr>
<tr>
<td>48.0 - 83.9</td>
<td>(level 3)</td>
</tr>
<tr>
<td>84.0 and above</td>
<td>(level 4)</td>
</tr>
<tr>
<td>level in program</td>
<td>determined by the number of passed credits completed toward the requirements of the concentration, as specified by the Department</td>
</tr>
<tr>
<td>one-way exclusion</td>
<td>a course that will prevent registration if taken with or before another course</td>
</tr>
<tr>
<td>option</td>
<td>a course chosen from a limited list of courses specified in a Plan. The degree of choice may vary according to the Plan</td>
</tr>
<tr>
<td>part-time student plan</td>
<td>may do at most 3.0 credits in the Fall-Winter Session; may do at most 1.5 credits in either Fall or Winter Terms</td>
</tr>
<tr>
<td>prerequisite</td>
<td>a requirement that must be met prior to registration in a course</td>
</tr>
<tr>
<td>program</td>
<td>an approved set of courses leading to a degree</td>
</tr>
<tr>
<td>registration</td>
<td>a student’s enrolment in a course or courses</td>
</tr>
<tr>
<td>session</td>
<td>an academic period within a Term. Start and end dates for each Session are published annually under Academic Dates and Key Dates</td>
</tr>
<tr>
<td>subject</td>
<td>a defined area of study</td>
</tr>
<tr>
<td>supporting course</td>
<td>a course in a Plan that complements the area of study; some Plans have required supporting courses (e.g. mathematics courses in a Physics Plan); others do not</td>
</tr>
<tr>
<td>term</td>
<td>an academic period during the calendar year.</td>
</tr>
<tr>
<td>unit</td>
<td>the academic value of a course</td>
</tr>
</tbody>
</table>

There are three terms:  
Fall (September-December)  
Winter (January-April)  
Summer (May-August)  

Start and end dates for each Term are published annually under Academic Dates and Key Dates
Disciplines

Humanities
Art History
Classics
Drama
English Language and Literature
Film and Media
Fine Art
Gender Studies
History
Jewish Studies
Medieval Studies
Music
Philosophy
Religious Studies

Interdisciplinary Studies
Biomedical Computing
Cognitive Science
Computing and the Creative Arts
Environmental Studies
French Linguistics
Gender Studies
Geographic Information Science
German Studies
Global Development Studies
Health Studies
Linguistics
Medieval Studies
Software Design
Spanish and Latin American Studies
Stage and Screen Studies

Languages
Arabic Language
Chinese Language
English Language and Literature
French Linguistics
French Studies
German Language and Literature
Greek Language and Literature
Hebrew Language and Literature
Italian Language and Literature
Japanese Language
Latin Language and Literature
Linguistics
Spanish Language and Literature
Spanish and Latin American Studies
World Language Studies

Natural and Physical Sciences
Anatomy and Cell Biology
Biochemistry
Biology
Biomedical Computing
Chemistry
Computing
Environmental Science
Geography
Geological Sciences
Life Sciences
Mathematical Physics
Mathematics and Statistics
Microbiology and Immunology
Pathology and Molecular Medicine
Pharmacology and Toxicology
Physics and Astronomy
Physiology
Psychology
Software Design

Social Sciences
Economics and Applied Economics
Environmental Studies
Gender Studies
Geography
Global Development Studies
Health Studies
Political Studies
Psychology
Sociology
2011-2012 ASC Academic Calendar Dates

PLEASE NOTE Students must be admitted to the University before they can register in a course. Academic Calendar Dates are subject to change. Confirm dates with the Arts and Science Faculty Office before finalizing plans.

April 2011
1 Last date to apply to the University for admission for Summer Term (May-June and May-July Sessions) (on-campus and distance classes).
8 Winter Term classes end.
9-13 Winter Term pre-exam study period.
14-30 Final examinations in Winter Term classes begin/end.
15 Last date for receipt of required documentation from students seeking admission for Summer Term (May-June and May-July Sessions) to ensure that an admission decision is made before the Term begins.
22 Good Friday.
30 Winter Term ends.
30 Last date to apply to graduate in Spring 2011.

May 2011
1 Summer Term begins.
1 Tuition fees due in full for all Summer Term Sessions.
2 Last date to register in Summer Term (May-June and May-July Sessions). Students unable to register by this date must pay tuition fees in full plus a registration administration fee.
6 Students unable to register in Summer Term (May-June and May-July Sessions) by this date must appeal in writing to the Office of the Associate Dean (Studies) and pay a registration administration fee.
15 Last date to add Summer Term classes (May-June and May-July Sessions).
15 Last date to drop Summer Term classes (May-June Session) without financial penalty.
16,17 Summer Term examinations in May-June Session classes.
24 Last date to drop Summer Term classes (May-June Session).
30 Last date to apply for admission to the Upper-Year Program at the Bader International Study Centre for Fall Term.

June 2011
NOTE Spring 2011 Convocation dates will be published by the Office of the University Registrar in early November 2010. See www.queensu.ca/registrar/grad/index.html to view these dates.
1 Last date to apply to the University for admission for Summer Term (July-August Session).
1 Last date to apply to the University for admission as a part-time student for Fall Term (day, evening and distance classes).
1 Last date for Queen’s students to apply for admission to a Dual Degree Program for Fall Term.
1 Last date for Queen’s students to apply to transfer into the Faculty of Arts and Science and the School of Kinesiology and Health Studies for Fall Term.
13 Summer Term classes (May-June Session) end.
15 Last date for receipt of required documentation from students seeking admission for Summer Term (July-August Session) and Fall Term to full- or part-time study, including transfer students, to ensure that an admission decision is made before the Terms begin.
16,17 Summer Term examinations in May-June Session classes.
24 Last date to drop Summer Term classes (May-June Session).
30 Last date to apply for admission to the Upper-Year Program at the Bader International Study Centre for Fall Term.

July 2011
1 Canada Day holiday (classes will not be held).
4 Last date to register in Summer Term (July-August Session). Students registering after this date must pay tuition fees in full plus a registration administration fee.
8 Summer Term classes (July-August Session) begin.
8 Students unable to register in Summer Term (July-August Session) by this date must appeal in writing to the Office of the Associate Dean (Studies) and pay a registration administration fee.
8 Last date to add Summer Term classes (July-August Session).
8 Last date to drop Summer Term classes (July-August Session) without financial penalty.
15 First date to apply to graduate in Fall 2011 (TENTATIVE).
22 Summer Term classes (May-July Session) end.
27,28,29 Summer Term examinations in May-July Session (on-campus and distance classes).
29 Last date to drop Summer Term classes (July-August Session).

August 2011
1 Civic Holiday (classes will not be held).
12 Summer Term classes (July-August Session) end.
15,16 Summer Term examinations in July-August Session classes.
29 Returning students may begin picking up validation stickers.
31 Summer Term ends.
September 2011
1 Fall Term begins.
1 Tuition fees due in full for both Fall and Winter Terms.
1 Time period to add and drop classes begins.
4 Orientation Week begins (arrival day).
5 Labour Day.
12 Fall Term classes begin.
23 Last date to register in Fall Term. Students unable to
register by this date must appeal in writing to the
Office of the Associate Dean (Studies) and pay tuition fees in
full plus a registration administration fee.
23 Last date to add Fall Term and multi-term classes.
23 Last date to drop Fall Term classes without financial penalty.
30 Last date to apply to graduate in Fall 2011 (TENTATIVE).

October 2011
10 Thanksgiving Day (classes will not be held).
15 Last date to apply for admission to the Upper-Year
Program at the Bader International Study Centre for Winter
Term.
16 University Day.
27,28 Fall Convocation for the Faculty of Arts and Science and
the School of Kinesiology and Health Studies (TENTATIVE).

November 2011
4 Last date to drop Fall Term classes.
7 Last date to apply for an official exam conflict for the
December exam Session.
11 Remembrance Day service (classes cancelled 10:30-11:30 a.m.).
15 Last date to apply to the University for admission as a
part-time student for Winter Term.
15 First date to apply to graduate in Spring 2012
(TENTATIVE).

December 2011
1 Last date for Queen’s students to apply for admission to a
Dual Degree Program for Winter Term.
1 Last date for receipt of required documentation from
students seeking admission for Winter Term to part-time
study to ensure that an admission decision is made before
the Term begins.
2 Fall Term classes end.
3-6 Fall Term pre-exam study period.
6 Commemoration Day (academics cancelled).
7-21 Final examinations in Fall Term classes and mid-year
tests in multi-term classes.
31 Fall Term ends.

January 2012
1 Winter Term begins.
1 Tuition fees due in full for Winter term.

February 2012
20-24 Mid-term Reading Week.

March 2012
2 Last date to drop Winter Term classes.
7 Last date to apply for an official exam conflict for the
December exam Session.
15 Last date to apply for admission to the Upper-Year Program
at the Bader International Study Centre for Summer Term
(May-June Session).
19 Registration for Summer Term classes begins.

April 2012
1 Last date to apply to the University for admission for
Summer Term (May-June and May-July Sessions) (on-
campus and distance classes).
6 Good Friday.
6 Winter Term classes end.
7-11 Winter Term pre-exam study period.
12-28 Final examinations begin/end in Winter Term and
multi-term classes.
15 Last date for receipt of required documentation from
students seeking admission for Summer Term (May-June
and May-July Sessions) to ensure that an admission
decision is made before the Term begins.
30 Winter Term ends.
30 Last date to apply to graduate in Spring 2012 (TENTATIVE).

May 2012
1 Summer Term begins.
1 Tuition fees due in full for all Summer Term sessions.
7 Last date to register in Summer Term (May-June and May-
July Sessions). Students registering after this date must pay
tuition fees in full plus a registration administration fee.
7 Summer Term (May-June and May-July Sessions) (on-campus
and distance classes) begins.
11 Students unable to register in Summer Term (May-June and May-July Sessions) by this date must appeal in writing to the Office of the Associate Dean (Studies) and pay tuition fees in full plus a registration administration fee.

11 Last date to add Summer Term classes (May-June and May-July Sessions).

11 Last date to drop Summer Term classes (May-June Session) without financial penalty.

11 Last date to apply for admission to the Upper-Year Program at the Bader International Study Centre for Summer Term (June-July Session).

15 Last date to apply to the University for upper-year full-time admission for Fall Term from another post-secondary institution.

18 Last date to drop Summer Term classes (May-July Session) without financial penalty.

21 Victoria Day (classes will not be held).

**June 2012**

NOTE Spring 2012 Convocation dates will be determined in fall 2011. See www.queensu.ca/registrar/grad/index.html to view these dates.

1 Last date to apply to the University for admission for Summer Term (July-August Session).

1 Last date to apply to the University for admission as a part-time student for Fall Term (day, evening and distance classes).

1 Last date for Queen’s students to apply for admission to a Dual Degree Program for Fall Term.

1 Last date for Queen’s students to apply to transfer into the Faculty of Arts and Science and the School of Kinesiology and Health Studies for Fall Term.

15 Last date for receipt of required documentation from students seeking admission for Summer Term (July-August Session) and Fall Term to full-or part-time study, including transfer students, to ensure that an admission decision is made before the Terms begin.

18 Summer Term classes (May-June Session) end.

21,22 Summer Term examinations in May-June Session classes.

29 Last date to drop Summer Term classes (May-July Session).

30 Last date to apply for admission to the Upper-Year Program at the Bader International Study Centre for Fall Term.

**July 2012**

2 Canada Day holiday (classes will not be held).

3 Last date to register in Summer Term (July-August Session).

Students registering after this date must pay tuition fees in full plus a registration administration fee.

3 Summer Term classes (July-August Session) begin.

9 Students unable to register in Summer Term (July-August Session) by this date must appeal in writing to the Office of the Associate Dean (Studies) and pay a registration administration fee.

9 Last date to add Summer Term classes (July-August Session).

9 Last date to drop Summer Term classes (July-August Session) without financial penalty.

15 First date to apply to graduate in Fall 2012 (TENTATIVE).

27 Summer Term classes (May-July Session) end.

30 Last date to drop Summer Term classes (July-August Session).

**August 2012**

1,2,3 Summer Term examinations in May-July Session classes (on-campus and distance classes) (TENTATIVE).

6 Civic Holiday (classes will not be held).

13 Summer Term classes (July-August Session) end.

15,16 Summer Term examinations in July-August Session classes (TENTATIVE).

31 Summer Term ends.

**September 2012**

1 Fall Term begins.

2 Orientation Week begins (arrival day).

3 Labour Day.

4 Welcoming Ceremony for new students.

10 Fall Term classes begin.
Introduction

The following Admission Regulations describe the requirements for admission to the Faculty of Arts and Science. The admission requirements stated in this chapter are minimum requirements, and the standing required for admission may be higher. Preference will be given to applicants with the strongest qualifications. Admission Regulations 1 – 12 present the admission requirements for the various categories of admission. Admission Regulation 13 describes the procedures applicants must follow for admission to on-campus studies, and Admission Regulation 14 describes the procedures applicants must follow for admission to distance studies.

Entering students are ordinarily allowed no credits for previous experience or education up to the level of completion of the Ontario Secondary School Diploma or equivalent. They may, with the consent of the departments concerned, be permitted to take advanced courses or alternative courses if their previous experience and education so warrant.

All applicants should note that the Queen's University Senate Policy on Student Appeals, Rights and Discipline states that applicants seeking admission to the University or a Program at Queen's may not appeal a decision regarding an individual application, whether or not the applicant is, or has been, a student in another Program at Queen's. By extension, applicants may not appeal any regulation stated in the Admission chapter of the Faculty of Arts and Science Calendar.

The following is a summary of the Admission Regulations:

1: English Language Proficiency
2: Admission with an Ontario Secondary School Diploma
3: Admission with OSSD Equivalent Standing
4: Admission from Colleges of Applied Arts and Technology
5: Admission by Transfer
6: Admission to a Dual Degree Program
7: Admission to a Second Degree Program
8: Admission Policy for Aboriginal Candidates
9: Auditors
10: Admission Under the Mature Student Regulation
11: Part-Time Admission on Probation (Non-Degree Program)
12: Admission to Non-Degree Studies
13: Application Procedures for Distance Studies
14: Application Procedures to Study On Campus

Admission Regulation 1: English Language Proficiency

English is the language of instruction at Queen’s University and candidates must be able to communicate competently in English both orally and in writing. Therefore, applicants who have not either lived in a country in which English is the acknowledged primary language or attended an educational institution Full-Time at which the language of instruction is English for the most recent three years prior to beginning their studies at Queen’s must achieve a satisfactory score on one of the accepted tests of facility in English.

The accepted tests of facility in English and the minimally acceptable scores for each are:

(i) Test of English as a Foreign Language (TOEFL) paper-based test – an overall score of 580; TOEFL internet-based test (IBT) - an overall score of 88, including 24 on the writing section, 22 on the speaking section, 22 on the reading section, and 20 on the listening section.
(ii) International English Language Testing System (IELTS) – 7 on the Academic Module.
(iii) Canadian Academic English Language Assessment (CAEL) – an overall band of 70, with no band below 60.
(iv) Michigan English Language Assessment Battery (MELAB) – 90.

Applicants who have successfully completed the 12-week English for Academic Purposes course or the Q-Bridge Program at Queen’s School of English may have the English Language Test of Proficiency waived.

Admission Regulation 2: Admission with an Ontario Secondary School Diploma

Ontario universities support full disclosure of all marks achieved in all attempts at a secondary school course. For the current admission year the highest grade achieved will be used in calculating the admission average.

2.1 – General Requirements

Admission from an Ontario Secondary School is based on the completion of the Ontario Secondary School Diploma (OSSD) including:

(i) six 4U and 4M courses, including a minimum of three 4U courses, one of which must be ENG4U (or EAE4U or FRA4U);
(ii) a Personal Statement of Experience (PSE).

To be considered for admission to a Degree Program, students must offer a minimum overall average of 75 per cent on six 4U and 4M courses, including ENG4U and no more than three 4M courses.

2.2 – Specific Requirements

2.2.1 – Bachelor of Arts

There are no additional specific secondary school subject requirements for admission to either the B.A.(Honours) or the B.A. Program. However, Arts students who intend to take courses in science, health studies, economics or mathematics should note that most first-year courses in these subjects have specific 4U course prerequisites.

2.2.2 – Bachelor of Science

In addition to the general admission requirements listed above in 2.1, applicants must present both Advanced Functions (MHF4U) and Calculus and Vectors (MCV4U), as well as two of the following 4U courses: Biology (SBI4U), Chemistry (SCH4U) or Physics (SPH4U).

1 Admission Regulations
Applicants who have attained satisfactory grades in all five of Advanced Functions, Calculus and Vectors, Biology, Chemistry and Physics will have met the prerequisites for all of the required first-year courses in any B.Sc. Program in the Faculty of Arts and Science.

2.2.3 – Bachelor of Computing
In addition to the general admission requirements listed above in 2.1, applicants must present both Advanced Functions (MHF4U) and Calculus and Vectors (MCV4U).

2.2.4 – Bachelor of Fine Art
In addition to the general admission requirements listed above in 2.1, admission is based on a portfolio examination (Visual Art [AVI4M] is recommended).

2.2.5 – Bachelor of Music
In addition to the general admission requirements listed above in 2.1, all applicants require Royal Conservatory Grade II Rudiments and Grade VI Piano, as well as the following level of accomplishment on their major instrument:
(i) Royal Conservatory Grade IX Piano; or
(ii) Royal Conservatory Grade VIII Organ and Grade VIII Piano; or
(iii) Royal Conservatory Grade VIII Standard Orchestral or Band Instrument; or
(iv) Royal Conservatory Grade VIII Classical Guitar; or
(v) Royal Conservatory Grade VIII Voice.

All candidates are also required to audition.

2.2.6 – Bachelor of Physical and Health Education
In addition to the general admission requirements listed above in 2.1, all applicants must present 4U Biology (SB4U). Exercise Science (PSE4U) is also recommended.

2.2.7 – Bachelor of Science(Honours) - Kinesiology Specialization Plan
In addition to the general admission requirements listed above in 2.1, all applicants must present Advanced Functions (MHF4U) and 4U Biology (SB4U), plus two of the following 4U courses: Calculus and Vectors (MCV4U), Chemistry (SCH4U) or Physics (SPH4U). Exercise Science (PSE4U) is also recommended.

2.2.8 – Faculty of Arts and Science/Faculty of Education Concurrent Programs
Applicants must satisfy the admission requirements for the desired Arts and Science Degree Program as described above. Programs that may be completed concurrently with a B.Ed. include: Bachelor of Arts (Honours), Bachelor of Computing (Honours), Bachelor of Music, Bachelor of Science (Honours).

Admission Regulation 3: Admission with OSSD Equivalent Standing
The minimum admission requirements for students from educational systems outside Ontario are described below. Applicants must also meet subject requirements equivalent to those stipulated for Ontario Secondary School graduates.

3.1 – Other Canadian Provinces and Territories
Applicants may offer secondary school graduation (Grade 12) from Alberta, British Columbia, Manitoba, New Brunswick, Newfoundland, Nova Scotia, Prince Edward Island, Saskatchewan, Northwest Territories, Nunavut or the Yukon. These applicants must offer a minimum overall average of 75 per cent to be considered for admission to a Degree Program.

3.1.1 Québec
Applicants who have successfully completed the Diplôme d’Études Collégiales (DEC) are eligible to receive up to 18.0 units unspecified transfer credit. Students may request that specific courses be assessed for specified transfer credit by contacting Undergraduate Admission.

3.2 – United States
The minimum entrance requirement for candidates from the United States is high school graduation with B- standing. Applicants must provide their SAT I or ACT scores.

3.3 – Advanced Placement
A maximum of 18.0 units may be granted for Advanced Placement examinations passed with a grade of 4 or higher. Official examination results must be forwarded to Undergraduate Admission.

Although a course transfer notation, TR, shall be noted on the transcript in all cases, for the purposes of evaluation of course prerequisites and admission to Plans at the second-year level, the following Queen’s grade equivalents will be used:

<table>
<thead>
<tr>
<th>AP Grade</th>
<th>Queen’s Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>A</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
</tr>
<tr>
<td>3 or less</td>
<td>no transfer</td>
</tr>
</tbody>
</table>

In no case shall an evaluative grade be placed on the transcript for a transfer credit (see Academic Regulation 10).

3.4 – General Certificate of Education (GCE) Systems
Candidates from systems offering the General Certificate of Education must normally offer seven subjects, at least two of which must be at the Advanced Level (excluding the General Paper). To be eligible for consideration, grades at both the Advanced and Ordinary Levels must not be lower than C. A maximum of 18.0 units may be granted for A-Level courses completed with a grade of B or higher.

Although a course transfer notation, TR, shall be noted on the transcript in all cases, for the purposes of evaluation of course prerequisites and admission to Plans at the second-year level, the following Queen’s grade equivalents will be used:

<table>
<thead>
<tr>
<th>A-level Grade</th>
<th>Queen’s Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>A, A*</td>
<td>A</td>
</tr>
<tr>
<td>B</td>
<td>B</td>
</tr>
<tr>
<td>C or lower</td>
<td>no transfer</td>
</tr>
</tbody>
</table>

In no case shall an evaluative grade be placed on the transcript for a transfer credit (see Academic Regulation 10).

3.5 – Cambridge Pre-University
Candidates from systems offering the Cambridge Pre-U (Pre-University) who have completed GCSE/IGCSE (Ordinary) Levels and at least 2 Pre-U Principle Subjects, will be considered
for admission. A combination of Principal Subjects and GCE A Levels will be accepted. To be eligible for consideration, grades at the Pre-U and Ordinary Level must not be lower than C or P1. A maximum of 18.0 units may be granted for Pre-U courses completed with a grade of B (M3) or higher.

Although a course transfer notation, TR, shall be noted on the transcript in all cases, for the purposes of evaluation of course prerequisites and admission to plans at the second level, the following Queen’s grade equivalents will be used:

<table>
<thead>
<tr>
<th>Pre-U Grade</th>
<th>Queen’s Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>D1, D2, D3</td>
<td>A</td>
</tr>
<tr>
<td>M1, M2, M3</td>
<td>B</td>
</tr>
<tr>
<td>C or lower</td>
<td>no transfer</td>
</tr>
</tbody>
</table>

In no case shall an evaluative grade be placed on the transcript for a transfer credit (see Academic Regulation 10).

3.6 – International Baccalaureate (IB) System
Candidates completing the International Baccalaureate diploma may be considered for admission provided they pass six subjects, with at least three at the Higher Level (HL), and accumulate a minimum total grade of 28, exclusive of bonus points. Note that bonus points may be considered when making a conditional offer of admission, but to maintain an offer of admission bonus points will be excluded. Whether or not the IB diploma has been completed, a maximum of 18.0 units may be granted for HL courses completed with a score of 5 or greater.

Although a course transfer notation, TR, shall be notated on the transcript in all cases, for the purposes of evaluation of course prerequisites and admission to Plans at the second-year level, the following Queen’s grade equivalents will be used:

<table>
<thead>
<tr>
<th>IB Grade</th>
<th>Queen’s Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>A</td>
</tr>
<tr>
<td>6</td>
<td>B</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
</tr>
<tr>
<td>4 or lower</td>
<td>no transfer</td>
</tr>
</tbody>
</table>

In no case shall an evaluative grade be placed on the transcript for a transfer credit (see Academic Regulation 10).

3.7 – French Baccalauréat System
Candidates who successfully complete the full Baccalauréat Général diploma program may be considered for admission, and may be eligible to receive a maximum of 18.0 units for courses completed with a score of 12 or greater.

Although a course transfer notation, TR, shall be notated on the transcript in all cases, for the purposes of evaluation of course prerequisites and admission to Plans at the second-year level, the following Queen’s grade equivalents will be used:

<table>
<thead>
<tr>
<th>FB Grade</th>
<th>Queen’s Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>16-20</td>
<td>A</td>
</tr>
<tr>
<td>14-15.99</td>
<td>B</td>
</tr>
<tr>
<td>12-13.99</td>
<td>C</td>
</tr>
<tr>
<td>11.99 or lower</td>
<td>no transfer</td>
</tr>
</tbody>
</table>

In no case shall an evaluative grade be placed on the transcript for a transfer credit (see Academic Regulation 10).

3.8 – Other Countries or Educational Systems
Normally, candidates who have achieved admission level for universities in their own countries are eligible to be considered for admission. These applicants should contact Undergraduate Admission regarding specific requirements.

Admission Regulation 4: Admission from Colleges of Applied Arts and Technology
4.1 – Candidates who have Completed One Year of CAAT
Candidates who have completed a one-year CAAT program (or one year of a two-, three- or four-year CAAT program) are not eligible for consideration for admission to the first university year, unless they have also completed the OSSD including six 4U and 4M courses with no more than three 4M courses, or the final university preparatory secondary school year of another jurisdiction.

4.2 – Candidates who have Completed Two Years of CAAT
Candidates who have completed a two-year CAAT diploma program (or two years of a three- or four-year CAAT program) are eligible to be considered for admission to the first year of a Degree Program. No transfer credits will be granted. Applicants must have the equivalent to a minimum Queen’s Cumulative GPA of 2.60 to be considered for admission to a Degree Program.

4.3 – Candidates who have Completed Three or Four Years of CAAT
Candidates who have completed a three-year CAAT diploma program or a four-year CAAT degree program are eligible to be considered for admission with advanced standing and may receive up to 30.0 units in transfer credits. See Admission Regulation 5 for further information on requirements and limitations associated with upper-year admission by transfer.

Admission Regulation 5: Admission by Transfer
5.1 – General Requirements
The Faculty of Arts and Science has limited capacity to accommodate transfer students from other accredited post-secondary institutions and from other Faculties and Schools at Queen's. Consequently, the admission process is highly competitive and preference is given to those applicants with the strongest qualifications.

Due to enrolment pressure, not all Arts and Science departments are able to accommodate upper-year transfer students. Some may have admission criteria that exceed the minimum stated below. Applicants should consult Undergraduate Admission for a list of departments currently accepting upper-year transfer students. Note that once admitted, upper-year transfer students will not be permitted to transfer in subsequent years into a Plan that was closed to transfer students at the time of admission or that closes subsequently.
Transfer students with the equivalent of at least 8 one-term courses (where a one-term course is equivalent to a typical 3.0-unit course in Arts and Science) from an accredited post-secondary institution are considered for upper-year admission. Normally it is not possible to be admitted directly into Level 3 or 4 of an Arts and Science Degree Program.

Applicants with fewer than the equivalent of 8 one-term post-secondary courses (where a one-term course is equivalent to a typical 3.0-unit course in Arts and Science) may be considered for admission to first year and should consult Admission Regulations 2-4 to learn secondary school requirements. Student’s post-secondary and high school marks will be considered in the admissions assessment. Students must have the equivalent of a Queen’s Cumulative GPA of 3.20 in their post-secondary work to be considered for Full-Time admission, or the equivalent of a Queen’s Cumulative GPA of 2.60 to be considered for Part-Time admission.

Applicants wishing to complete a second undergraduate degree within the Faculty of Arts and Science at Queen’s should refer to Admission Regulation 7 as well as the Dual and Second Degrees section of this Calendar.

5.2 – Transfer from Another Accredited Post-Secondary Institution

All applicants should note the general requirements and limitations in section 5.1 above. Applicants who have not completed a degree and wish to transfer to the Faculty of Arts and Science from another accredited post-secondary institution must, as a minimum, have the equivalent of a Queen’s Cumulative GPA of 3.20 to be considered for Full-Time admission, or the equivalent of a Queen’s Cumulative GPA of 2.60 to be considered for Part-Time admission. In addition, applicants must satisfy appropriate departmental criteria that may exceed these minimums. Enrolment limitations or lack of prerequisites may result in the denial of an application to transfer.

It is the student’s responsibility to ensure their registration in the appropriate courses for the completion of the Degree Program to which they have been admitted.

Note that the B.F.A.(Hons.) and B.Mus. Programs have specialized entry requirements as outlined below.

5.2.1 – Transfer to the B.F.A (Hons.) Program from Another Accredited Post-Secondary Institution

Applicants who wish to transfer to the B.F.A.(Hons.) Program must have the equivalent of a minimum Queen’s Cumulative GPA of 2.60 and must submit, for review, a portfolio and accompanying letter of art experience and goals. Program entry level will be based on the applicant’s transfer credits and portfolio. Due to course sequencing, transfer into second year is extremely rare.

5.2.2 – Transfer to the B.Mus. Program from Another Accredited Post-Secondary Institution

Applicants who wish to transfer to the B.Mus. Program must have the equivalent of a minimum Queen’s Cumulative GPA of 1.90 to be considered, and will be required to audition if they have not successfully completed a minimum of one year of applied study at another accredited post-secondary institution. They should also have completed the equivalent of MUSC 191/6.0 with a minimum grade of C-. Academically strong students entering the second year of the B.Mus. Program without this prerequisite may be permitted to take MUSC 191/6.0 in their entering year.

5.2.3 – Transfer to the B.Cmp.(Hons.) or B.P.H.E.(Hons.) Programs or the B.Sc.(Hons.) Program – Kinesiology Plan from Another Accredited Post-Secondary Institution

Applicants who wish to transfer into the B.Cmp.(Hons.) or B.P.H.E.(Hons.) Programs or the B.Sc.(Hons.) Program must meet the same academic requirements as Queen’s students entering the degree directly into the Faculty of Health Studies.

5.2.4 – Concurrent B.Ed. Program Closed to Transfer

The Queen’s Concurrent Education Program is not available to transfer applicants from other post-secondary institutions.

For admission procedures see Admission Regulations 13.1, 13.2 and 14.1.

5.3 – Transfer from Another Faculty or School at Queen’s

All applicants should note the general requirements and limitations in section 5.1 above. Applicants who wish to transfer to the Faculty of Arts and Science from another Faculty or School at Queen’s University must, as a minimum, have a Cumulative GPA of 1.60. In addition, applicants must satisfy appropriate departmental criteria that may exceed these minimums. Applicants should note that having a Cumulative GPA of less than 1.90 will make them ineligible for graduation with an Honours degree (see Academic Regulation 13). Enrolment limitations or lack of prerequisites may result in the denial of an application to transfer.

The previous academic record of an internal transfer student from another Faculty or School at Queen's continues to be relevant in assessing his or her performance in Arts and Science. In particular, the Cumulative GPA will be calculated on all courses attempted during the student’s Undergraduate Career at Queen’s (see Academic Regulation 10) and will be utilized when assessing academic progression (see Academic Regulation 13), prerequisites and any other purpose specified under the Academic Regulations.

Students of other Queen's Faculties and Schools who have a Cumulative GPA of less than 1.60 are not eligible to be considered for admission to the Faculty of Arts and Science for a minimum of one year, after which time they must apply to be considered for part-time admission on probation (see Admission Regulation 11). Students who have a Cumulative GPA of less than 0.70 are not eligible to be considered for admission to the Faculty of Arts and Science for a minimum of three years, after which time they may apply to be considered for Part-Time admission on probation (see Admission Regulation 11).

It is the students’ responsibility to ensure their registration in the appropriate courses for the completion of the Degree Program to which they have been admitted. Note that the B.F.A.(Hons.) and B.Mus. Programs have specialized entry requirements as outlined below.

5.3.1 – Transfer to the B.F.A.(Hons.) Program from Within Queen's Faculty

Applicants who wish to transfer to the B.F.A.(Hons.) Program must submit, for review, a portfolio and accompanying letter of art experience and goals. Applicants who have successfully completed ARTF 105/12.0 and ARTF 110/12.0 will be considered for upper-year admission. If admitted to first year, students must complete ARTF 127/12.0 and ARTF 128/12.0. Note that as these courses are exclusions to ARTF 105/12.0 and ARTF 110/12.0, students shall lose credit for ARTF 105/12.0 and ARTF 110/12.0. If admitted to the second year the equivalent of a Queen’s Cumulative GPA of 2.60 to be considered for Part-Time admission.
5.3.2 – Transfer to the B.Mus. Program from Within Queen’s

Applicants who wish to transfer to the B.Mus. Program who have not completed MUSC 121/12.0 or MUSC 124/12.0 will be expected to pass an audition in addition to meeting academic requirements. Applied Study courses MUSC 124/12.0, MUSC 224/12.0, MUSC 324/12.0, MUSC 424/12.0 will be used in lieu of MUSC 121/12.0, MUSC 221/12.0, MUSC 321/12.0, MUSC 421/12.0 in the Music Specialization Plan requirements. A minimum of two ensembles must be completed while registered in the B.Mus. Program. Students may apply to receive credit for up to two ensembles participated in while not registered in the B.Mus. Program by appealing to the Chair of Undergraduate Studies in the School of Music.

5.3.3 – Transfer to the B.Cmp.(Hons.) or B.P.H.E.(Hons.) Programs or the B.Sc.(Hons.) Program – Kinesiology Plan from Within Queen’s

Applicants who wish to transfer into the B.Cmp.(Hons.) or B.P.H.E.(Hons.) Programs or the B.Sc.(Hons.) Program – Kinesiology Plan from another accredited post-secondary institution do not need to meet any specialized entry requirements, but should meet the minimum Cumulative GPA and departmental requirements. Candidates should also have the relevant specific high school prerequisites stated in Admission Regulation 2.2.

5.3.4 – Concurrent B.Ed. Program Closed to Transfer

The Queen’s Concurrent Education Program is not available to transfer applicants from other Faculties or Schools at Queen’s. However, students registered in the Concurrent Education Program wishing to withdraw from the Bachelor of Education yet continue with their studies in the Faculty of Arts and Science may request this change through the Education Registrar's Office.

For admission procedures see Admission Regulations 13.1, 13.2 and 14.1.

5.4 – Transfer Between Programs within the Faculty of Arts and Science

For admission procedures for applicants currently enrolled in any Program or Plan in the Faculty of Arts and Science who wish to transfer from that Program/Plan to another Program/Plan in the Faculty, see Admission Regulation 13.5.

Current Arts and Science students who wish to transfer to the B.F.A.(Hons.) or B.Mus. Programs, including those who were originally admitted to one of these Programs and subsequently withdrew, must meet the specialized entry requirements outlined above in Admission Regulation 5.3.

Students registered in the Concurrent Education Program wishing to withdraw from the Bachelor of Education yet continue with their studies in the Faculty of Arts and Science may request this change through the Education Registrar's Office.

5.5 – Counting of Transfer Credit

Students who once registered in the Faculty of Arts and Science and then subsequently transferred to another Faculty or School at Queen’s or to another post-secondary institution should note that the number of units in transfer credits that they may receive upon readmission to the Faculty of Arts and Science is limited. Units cannot be counted twice. Thus, the number of units in transfer credits granted may be reduced by the number of Queen’s units completed and transferred to the Program at the other Faculty or School post-secondary institution.

Admission Regulation 6: Admission to a Dual Degree Program

With the approval of the Faculty of Arts and Science, the Department(s) concerned and the student’s home Faculty or School, students may be admitted to complete a Bachelor of Arts, Bachelor of Computing or Bachelor of Science degree concurrently with an undergraduate degree in Commerce, Applied Science or Nursing at Queen’s.

The Faculty has limited capacity to accommodate Dual Degree students, and only accepts candidates into dual degree combinations that are academically viable. To ensure the academic integrity of the combined Programs, the Faculty Office, in consultation with the Department(s) concerned and the other undergraduate Faculty or School, approves combinations to ensure that there is minimal overlap in course content. Current information on departmental capacity and academically viable dual degree combinations is available on the Arts and Science website.

Admission requirements are available from Undergraduate Admission. Enrolment limitations and/or a lack of appropriate prerequisites may result in the denial of an application. Applicants are advised to consult the Dual and Second Degree Programs section of this Calendar for details on degree requirements, registration and restrictions.

6.1 – Requirements for Admission to a Dual Degree Program

To be eligible, students must meet all of the following criteria:

(i) have the equivalent of Arts and Science Full-Time standing in their home Faculty or School;
(ii) have completed the equivalent of at least 8 one-term courses (where a one-term course is equivalent to a typical 3.0-unit course in Arts and Science) in their home Faculty or School;
(iii) have been in good academic standing1 in their home Faculty or School throughout their Undergraduate Career at Queen’s;
(iv) have a minimum Cumulative GPA of 2.90;
(v) apply to an Arts and Science Degree Program in a substantially different Plan from that in their primary Degree Program; and
(vi) satisfy departmental criteria for admission to the Plan.

6.2 – Admission, Program/Plan Changes and Withdrawal Procedures

For admission procedures see Admission Regulation 13.3.

Once admitted to a Dual Degree Program, students who wish to change to another Arts and Science Program or Plan need to complete a new application to a Dual Degree Program through Undergraduate Admission. Students registered in a Dual Degree Program who decide not to complete the Program may indicate their withdrawal, in writing, to Undergraduate Admission. Dual Degree students who are required to withdraw from their non-Arts and

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1 “Good academic standing” is defined as having no academic sanction imposed in the student’s home Faculty or School. Such sanctions in the home Faculty or School may include “Special Programs” noted on the student’s record that result from previous poor performance, academic probation, or a requirement to withdraw.
Admission Regulation 7: Admission to a Second Degree Program
With the approval of the Faculty of Arts and Science and the Department(s) concerned, university graduates may be admitted to the Faculty of Arts and Science to complete a second undergraduate degree.

The Faculty has limited capacity to accommodate Second Degree students, and only accepts candidates into second degree combinations that are academically viable. To ensure the academic integrity of the Second Degree Program, the Faculty Office, in consultation with the Department(s) concerned, approves combinations to ensure that there is minimal overlap in course content. Current information on departmental capacity and academically viable second degree combinations is available on the Arts and Science website.

Admission requirements are available from Undergraduate Admission. Enrolment limitations and/or a lack of appropriate prerequisites may result in the denial of an application. Applicants are advised to consult the Dual and Second Degree Programs section of this Calendar for details on degree requirements, registration and restrictions.

7.1 – Students Whose First Degree is From the Faculty of Arts and Science
Students who have already earned a Bachelor’s Degree conferred through the Faculty of Arts and Science at Queen’s University and who wish to proceed to a second degree in the Faculty must have graduated in good standing and must satisfy departmental criteria. Students who wish to pursue a second degree in the B.F.A.(Hons.) and B.Mus. Programs must meet the specialized entry requirements outlined in Admission Regulation 5.

7.2 – Students Whose First Degree is From Another Faculty or School at Queen’s
Students graduating from another Faculty or School at Queen’s must have graduated in good standing and have a minimum Cumulative GPA of 2.90 to be considered for Full-time admission, or the equivalent of a minimum Cumulative GPA of 1.90 to be considered for Part-Time admission. Students must satisfy departmental criteria that may exceed these minimums.

7.3 – Students Who Whose First Degree is From Another University
Applicants who do not already hold a degree from Queen’s University must have the equivalent of a minimum Queen’s Cumulative GPA of 3.20 to be considered for Full-Time admission, or the equivalent of a minimum Queen’s Career GPA of 2.60 to be considered for Part-Time admission. In addition, they must also satisfy departmental criteria that may exceed these minimums. In all cases, admission to a second degree is only possible when the applicant’s first degree is from an accredited post-secondary institution and in a substantially different Plan from the proposed second degree.

For admission procedures see Admission Regulations 13.1, 13.2 and 14.1.

Admission Regulation 8: Admission Policy for Aboriginal Candidates
The Faculty of Arts and Science at Queen’s University offers Aboriginal candidates an alternative procedure for admission to the first year of a Full-Time Degree Program. Qualified Aboriginal students whose home community is in North America may be admitted to the Bachelor of Arts (Honours), Bachelor of Science (Honours), Concurrent Education Bachelor of Arts (Honours) and Concurrent Education Bachelor of Science (Honours) Programs by this alternative procedure.

Aboriginal candidates may also choose to apply through the regular admission procedures. Offers of admission will be made to Aboriginal candidates whose total application shows strong evidence of academic preparedness and potential. Students who are admitted under this alternative admission procedure will be encouraged to make use of the academic advising and academic support services available to all Arts and Science students. The Aboriginal Council of Queen’s University and the Queen’s Native Students Association are important resources for Aboriginal students. In addition, the students will be introduced to the Four Directions Aboriginal Centre, whose professional staff provides an array of services ranging from academic assistance, career planning, and information on scholarships and bursaries to cultural programming and social events.

8.1 – Conditions, Deadlines, and General Requirements for Applicants
Applicants under the Aboriginal Policy must apply through the Ontario Universities' Application Centre and should expect to meet the general admission conditions and deadlines of the Faculty of Arts and Science, including completion of the Personal Statement of Experience.

Applicants must meet the general admission requirements for the Faculty of Arts and Science, including the university minimum average. Applicants for Concurrent Education Arts and Science Programs are expected to present admission averages consistent with the minimum academic entrance average of the corresponding Bachelor of Arts (Honours) or Bachelor of Science (Honours) Programs in that given academic year.

8.2 – Documents and Information Required as a Basis for Consideration
Candidates seeking admission under this alternative process should also submit a separate letter to Undergraduate Admission, Office of the University Registrar, Queen's University, in which they declare their Aboriginal ancestry, state that they wish to be considered by this alternative process, and provide evidence of Aboriginal status in North America. In addition to the student's Personal Statement of Experience, admission to the Faculty will depend on the assessment of the student's Program prerequisites (or equivalencies) and the student's overall average.

Admission Regulation 9: Auditors
Students may apply to audit any course in the Faculty of Arts and Science, except for distance courses, courses involving language acquisition, and any course that is predominantly performance-based. To audit a course, students must first obtain the permission of the instructor and the relevant department’s Chair of Undergraduate Studies. In giving consent to audit a course, the instructor and auditor will determine the extent of the auditor's participation.

2 “Good academic standing” is defined as having no academic sanction imposed in the student’s home Faculty or School. Such sanctions in the home Faculty or School may include “Special Programs” noted on the student’s record that result from previous poor performance, academic probation, or a requirement to withdraw.
in classes, field trips, laboratories, etc. Auditors are not entitled to submit assignments or write examinations.

Auditors are not required to apply for admission to the Faculty of Arts and Science through Undergraduate Admission, but must formally register through the Faculty Office. A registration fee will apply.

**Admission Regulation 10: Admission Under the Mature Student Regulation (Non-Degree)**
The Mature Student Regulation is applicable to candidates who:

(i) have not completed a high school diploma (e.g., OSSD) or equivalent, or
(ii) have not completed sufficient acceptable academic courses in their previous educational endeavours (e.g., lacking three 4U courses or a total of six academic courses), and
(iii) have been out of school for a minimum of five years.

**10.1 – Enrolment Limitations**
Students admitted under the Mature Student Regulation may not enrol in more than one course in the same term. Course(s) may be taken during any term or session. Should the student be admitted to a Degree Program in a later session, courses taken under the Mature Student Regulation will count towards the completion of the Degree Program.

**10.2 – Criteria for Further Registration**
In order to be eligible to continue to register for courses, mature student candidates must first complete at least 6.0 units of courses offered for degree credit by the Faculty of Arts and Science at Queen's University, excluding repeated courses, with a minimum Cumulative GPA of 1.60.

Students who obtain a minimum Cumulative GPA of 0.70 but less than 1.60 on these 6.0 units, may subsequently attempt a further 6.0 units, excluding repeated courses, and must then obtain a minimum Cumulative GPA of 1.60 on the 12.0 units.

Students who meet these conditions will be admitted Part-Time to a degree program.

**10.3 – Failure to Meet Criteria for Further Registration**
Students who fail to obtain a minimum Cumulative GPA of 0.70 on the first 6.0 units or a minimum Cumulative GPA of 1.60 on 12.0 units have not met the admission conditions of the Mature Student category and may not take further courses in the Faculty of Arts and Science. Such students will have the ruling “Not Eligible to Proceed - Conditions of Admission not Met” placed on their transcript. Students may not appeal this ruling because it is the direct result of a particular level of academic performance (see Academic Regulation 13).

**10.4 – Incomplete (IN) or Grade Deferred (GD) standing**
Students under the Mature Student Regulation who have been assigned Incomplete (IN) or Grade Deferred (GD) standing will not be permitted to register for further courses until the grades are resolved.

**10.5 – Rights and Responsibilities of Students Admitted under the Mature Student Regulation**
Students admitted under the Mature Student Regulation must comply with all the regulations of the Faculty of Arts and Science, and may access the Faculty's procedure for appeal of academic decisions with respect to courses completed as a Mature Student.

**10.6 – Progression to Full-Time Studies**
Students admitted under the Mature Student Regulation may become eligible for Full-Time studies only after first successfully meeting the conditions of their admission and being admitted to a Degree Program on a Part-Time basis, and then by completing additional courses to fulfill the Faculty’s normal requirements for transferring from Part-Time to Full-Time studies on a Degree Program (see Academic Regulation 3).

10.6.1 – Step 1: Progressing to Part-Time Studies on a Degree Program
First, students must meet the following conditions to be admitted to Part-Time studies on a Degree Program:

(i) Complete 6.0 units in the Faculty of Arts and Science, excluding repeated courses, from the time at which they were admitted, or complete 12.0 units in the Faculty of Arts and Science, as described above in 10.2; and
(ii) Achieve a minimum Cumulative GPA of 1.60.

10.6.2 – Step 2: Progressing to Full-Time Studies
Second, students who have been admitted Part-Time to a Degree Program will become eligible for Full-Time studies upon meeting one of the following sets of conditions as per Academic Regulation 3:

(i) They have completed a minimum of 24.0 Queen’s units, excluding repeated courses, from the time at which they were admitted Part-Time on a Degree Program or at which they were placed on Part-Time status; and
(ii) Achieved a minimum Cumulative GPA of 1.90; OR
(i) They have completed a minimum of 18.0 Queen’s units, excluding repeated courses, from the time at which they were admitted Part-Time on a Degree Program or at which they were placed on Part-Time status; and
(ii) Achieved a minimum Cumulative GPA of 2.90.

For admission procedures see Admission Regulations 13.4 and 14.2.

**Admission Regulation 11: Part-Time Admission on Probation (Non-Degree)**
Applicants wishing to transfer to the Faculty of Arts and Science from another Faculty or School at Queen's University who do not meet the minimum admission requirements of the Faculty of Arts and Science, as specified in Admission Regulation 5, may be considered for Part-Time admission on probation to a Non-degree Program after a minimum of one year has passed. Students of other Queen's Faculties and Schools who have a minimum Cumulative GPA of 0.70 but less than 1.60 are eligible to apply to be considered for Part-Time admission on probation in the Faculty of Arts and Science after one year, while students who have a Cumulative GPA of less than 0.70 are eligible to apply to be considered for Part-Time admission on probation after a minimum of three years.
11.1 – Enrolment Limitations
Students admitted with Part-Time on probation status should note the maximum course load for Part-Time students (see Academic Regulation 3).

11.2 – Criteria for Further Registration
In order to be eligible to continue to register for courses, students admitted Part-Time on probation must complete at least 18.0 units of courses offered for degree credit while registered in the Faculty of Arts and Science, excluding repeated courses, with a minimum Cumulative GPA of 1.60. Students who meet these conditions will be admitted Part-Time to a degree program.

11.3 – Failure to Meet Criteria for Further Registration
Students who fail to obtain a minimum Cumulative GPA of 1.60 on the first 18.0 units of courses have not met the conditions of their admission on probation and may not take further courses in the Faculty of Arts and Science. Such students will have the ruling “Not Eligible to Proceed – Conditions of Admission Not Met” placed on their transcript. Students may not appeal this ruling because it is the direct result of a particular level of academic performance (see Academic Regulation 13).

11.4 – Incomplete (IN) or Grade Deferred (GD) Standing
Students assigned Incomplete (IN) or Grade Deferred (GD) standing will not be permitted to register for further courses until the grades are resolved.

11.5 – Rights and Responsibilities of Students Admitted Part-Time on Probation
Students admitted Part-Time on probation must comply with all the regulations of the Faculty of Arts and Science and may access the Faculty’s procedure for appeal of academic decisions with respect to courses completed as a probationary student.

11.6 – Progression to Full-Time Studies
Students admitted Part-Time on probation may become eligible for Full-Time studies only after first successfully meeting the conditions of their admission on probation, and then by completing additional courses to fulfill the Faculty’s normal requirements for transferring from Part-Time to Full-Time studies on a Degree Program (see Academic Regulation 3).

11.6.1 – Step 1: Progressing to Part-Time Studies on a Degree Program
First, students must meet the following conditions to be admitted to Part-Time studies on a Degree Program:
(i) Complete a minimum of 18.0 units in the Faculty of Arts and Science, excluding repeated courses, from the time at which they were admitted, and
(ii) Achieve a minimum Cumulative GPA of 1.60.

11.6.2 – Step 2: Progressing to Full-Time Studies
Second, students who have been admitted Part-Time to a Degree Program will become eligible for Full-Time studies upon meeting one of the following sets of conditions as per Academic Regulation 3:
(i) They have completed a minimum of 24.0 Queen’s units, excluding repeated courses, from the time at which they were admitted Part-Time on a Degree Program or at which they were placed on Part-Time status; and
(ii) Achieved a minimum Cumulative GPA of 1.90; or
(i) They have completed a minimum of 18.0 Queen’s units, excluding repeated courses, from the time at which they were admitted Part-Time on a Degree Program or at which they were placed on Part-Time status; and
(ii) Achieved a minimum Cumulative GPA of 2.90.

For admission procedures see Admission Regulations 13.4 and 14.2.

Admission Regulation 12: Admission to Non-Degree Studies
Applicants who are not registered in an Arts and Science Degree Program at Queen’s University and who wish to register for courses in the Faculty of Arts and Science may be considered for admission under the following non-degree categories.

Enrolment limitations or lack of appropriate prerequisites may result in the denial of an application. Once registered, non-degree students are subject to the regulations of the Faculty of Arts and Science and submit assignments, write examinations and receive an official record of their results. Should a student later be admitted to an Arts and Science Degree Program, credit will normally be granted for previous courses successfully completed in the Faculty of Arts and Science.

12.1 – Mature and Probation
For admission requirements for non-degree candidates under the Mature Student Regulation see Admission Regulation 10. For admission requirements for non-degree candidates Part-Time on Probation see Admission Regulation 11.

For admission procedures see Admission Regulations 13.4 (on campus) and 14.2 (distance).

12.2 – Exchange Students
Students from post-secondary institutions with which Queen’s has a formal exchange agreement can be nominated by their home institution to study on exchange in the Faculty of Arts and Science. Details on admission requirements and admission procedures are available from the International Programs Office.

12.3 – Visiting Students from other Post-Secondary Institutions
Visiting students from other post-secondary institutions may apply for non-degree studies in the Faculty of Arts and Science on a letter of permission. Because of enrolment pressures, visiting students are restricted to online courses offered through Continuing and Distance Studies and to courses being offered in locations other than the Queen’s campus at the Bader International Study Centre and through the Blyth Program.

For admission procedures see Admission Regulation 14.2.

12.4 – Post-Degree Candidates with Degrees from Other Post-Secondary Institutions
Post-degree candidates with degrees from post-secondary institutions other than Queen’s University may apply for non-degree studies in the Faculty of Arts and Science. Because of enrolment pressures, such students are restricted to online courses offered through Continuing and Distance Studies.

For admission procedures see Admission Regulation 14.2.
12.5 – Interest
Candidates from outside Queen’s may apply for non-degree studies in the Faculty of Arts and Science to take courses for interest or for professional certification. Because of enrolment pressures, such students are restricted to online courses offered through Continuing and Distance Studies.

For admission procedures see Admission Regulation 14.2.

12.6 – Post-Degree Students from Queen’s University
Students who have completed a degree from any faculty or School at Queen’s University may complete undergraduate courses for upgrading or general interest in the Faculty of Arts and Science by contacting the Faculty of Arts and Science Office to register for courses. Information on upgrading from a General to an Honours degree program can be found in the General Degree Upgrade section in the Dual and Second Degree Programs chapter of this Calendar. No application through Undergraduate Admission is required. (See Admission Regulation 13.4.)

Admission Regulation 13: Application Procedures to Study On Campus
This chapter details the admission procedures applicants must follow for on-campus studies in the Faculty of Arts and Science at Queen’s University.

13.1 – Full-Time Admission to a Degree Program On Campus
All candidates for admission to Full-Time studies on a degree program on campus, including applicants for first degrees (Admission Regulations 2, 3, 4 and 8), applicants for second degrees (Admission Regulation 7), and applicants who wish to transfer to the Faculty of Arts and Science from another Faculty or School at Queen’s or from another post-secondary institution (Admission Regulation 5), apply through the Ontario Universities’ Application Centre. Candidates for admission to Full-Time degree studies on campus will be considered for Fall term entry only. No other Full-Time entry point is possible. On behalf of qualified applicants, Undergraduate Admission will consult with the Faculty Office and the departments concerned in determining successful candidates.

13.1.1 – Applicants with No-Post-Secondary Study Experience
All applicants apply through the Ontario Universities’ Application Centre. Students in Ontario Secondary Schools apply through their schools, normally in conjunction with the school Guidance Office. Other Canadian candidates and candidates from outside Canada apply directly.

Conditional offers of admission to Full-Time study may be made prior to the availability of final grades. Typically, these are made to applicants in Ontario secondary schools from March to May. For applicants not attending an Ontario secondary school, conditional offers are made on the same criteria, but decisions are made on an on-going basis until the end of May.

Conditional offers for Full-Time students only become final once the applicant has satisfactorily met all conditions, namely completed all required high school or CEGEP courses and has achieved a diploma or equivalent (e.g., OSSD) with the minimum required average. Candidates for the First-Year Program at the Bader International Study Centre from Ontario secondary schools apply through the Ontario Universities’ Application Centre. Applicants from Ontario Secondary Schools apply through their schools and submit the applications, normally by way of the school Guidance Office, to the Ontario Universities’ Application Centre. All other candidates apply directly through the Ontario Universities' Application Centre.

Applicants who are offered admission to Full-Time study in the first year of a Faculty of Arts and Science Degree Program may request a deferral for one year. To be eligible for a deferral, the applicant must:

(i) have accepted the offer of admission by following the instructions included with the offer of admission, to the Ontario Universities' Application Centre by the stated date;
(ii) have sent a written request for a deferral that is received at Undergraduate Admission by 1 August;
(iii) have a significantly compelling reason warranting a deferral; and have final grades that meet the competitive standard for admission to the Degree Program for which the offer was received.

Candidates who wish to defer their offer of admission should contact Undergraduate Admission for advice on the deferral procedure. Students granted a deferral may not attend another post-secondary institution in the interim.

13.1.2 – Applicants with Post-Secondary Study Experience
All applicants for Full-Time studies on a degree program on campus at Queen’s University who have studied at an accredited post-secondary institution, whether they have completed a degree or not, apply through the Ontario Universities’ Application Centre. Second Degree candidates whose first degree is from Queen’s University follow the same application process, as do students who have been registered in distance studies in the Faculty of Arts and Science, and current or former Queen’s students from other Faculties or Schools who wish to transfer into the Faculty of Arts and Science for on-campus studies.

Changing a Second Degree Program (i.e., switching to a different Degree Program or changing Plans within Arts and Science) requires a new application through Undergraduate Admission.

13.2 – Part-Time Admission to a Degree Program On Campus
All candidates for admission to Part-Time studies on a degree program on campus, including applicants for first degrees (Admission Regulations 2, 3 and 4), applicants for second degrees (Admission Regulation 7), and applicants who wish to transfer to the Faculty of Arts and Science from another Faculty or School at Queen’s or from another post-secondary institution (Admission Regulation 5), apply through Undergraduate Admission. Candidates for admission to Part-Time degree studies on campus will be considered for Fall term entry only. No other Part-Time entry point is possible. On behalf of qualified applicants, Undergraduate Admission will consult with the Faculty Office and the departments concerned in determining successful candidates. Conditional offers of admission to Part-Time studies on a Degree Program may be made prior to the availability of final grades.

Conditional offers for Part-Time students only become final once the applicant has satisfactorily met all conditions, namely completed all required high school or CEGEP courses and has achieved a diploma or equivalent (e.g., OSSD) with the minimum required average. Candidates for the First-Year Program at the Bader International Study Centre from Ontario secondary schools apply through the Ontario Universities’ Application Centre. Applicants from Ontario Secondary Schools apply through their schools and submit the applications, normally by way of the school Guidance Office, to the Ontario Universities’ Application Centre. All other candidates apply directly through the Ontario Universities' Application Centre.

Students on Part-Time studies are limited to registration in 60% or less of a full course load. Upon satisfying the conditions for Full-Time studies (see Academic Regulation 3), Part-Time students may apply through Undergraduate Admission to become Full-Time students on a Degree Program.
13.3 – Admission to the Dual Degree Program On Campus
Undergraduate students at Queen's University who wish to become Dual Degree candidates in the Faculty of Arts and Science (Admission Regulation 6) must apply through Undergraduate Admission.

Candidates for admission to the Dual Degree Program will be considered for Fall or Winter term entry. Applications must be made by the deadline for the term to which admission is requested (see the Academic Calendar Dates section of the Calendar). It is not possible to be admitted to a term prior to the availability of final grades in the applicant’s preceding term. Where applicable, the Degree Program and Plan must be indicated on the application. On behalf of qualified applicants, Undergraduate Admission will consult with the Faculty Office and the departments concerned in determining successful candidates.

Changing a Dual Degree Program (i.e., switching to a different Degree Program or changing Plans within Arts and Science) requires a new application through Undergraduate Admission.

13.4 – Admission to Non-Degree Studies On Campus
On-campus non-degree studies are limited to students in the following categories:

13.4.1 Mature and Probation
Candidates applying under the Mature Student Regulation (Admission Regulation 10) and Part-Time on Probation (Admission Regulation 11) apply through Undergraduate Admission. Such candidates will be considered for on campus studies for Fall term entry only. No other entry point is possible.

Candidates who are admitted to the Faculty of Arts and Science as Part-Time students on Probation or under the Mature Student regulation must first meet their conditions of probation before being admitted to the faculty Part-Time on a Degree Program.

13.4.2 Exchange Students
Students on exchange from post-secondary institutions with which Queen’s has formal exchange agreements will be considered for Fall and Winter entry. Admission requirements and admission procedures are available from the International Programs Office.

13.4.3 – Post-degree
Post-degree students whose first degree is from Queen’s University may be eligible for non-degree studies on campus. All post-degree students are subject to the limitations on access to on-campus courses outlined in Academic Regulation 2.

13.4.3.1 Graduates of Queen’s University
Students who have completed a Degree Program at Queen's in good standing may register in the Faculty of Arts and Science and enrol in Arts and Science on-campus courses as post-degree students not on a Degree Program by contacting the Faculty Office. Similarly, students who have completed a General Degree Program in the Faculty of Arts and Science who wish to upgrade to an Honours degree and who meet the admission requirements should contact the Faculty Office (see the General Degree Upgrade section in the Dual and Second Degree Programs chapter of this Calendar).

Queen’s graduates must re-apply for admission to Queen’s if they have:
(i) completed more than the equivalent of 18.0 units, including failures, at another post-secondary institution without a Letter of Permission; or
(ii) transferred to a degree program at another post-secondary institution (other than a graduate program); or
(iii) completed a three-year diploma program at another post-secondary institution.

13.4.3.2 – Current Students in the School of Graduate Studies or Professional Programs at Queen’s
Students registered in the School of Graduate Studies or Professional Schools at Queen's University who hold an undergraduate degree from Queen's may register in the Faculty of Arts and Science and enrol in Arts and Science courses as post-degree students not on a Degree Program if they have written permission from their supervisor, the Department and either the School of Graduate Studies or their home Faculty or School.

Students registered in the School of Graduate Studies or Professional Schools at Queen's University who do not hold an undergraduate degree from Queen's must apply for admission to the Faculty of Arts and Science through Undergraduate Admission (see the Academic Calendar Dates section of the Calendar) to register as post-degree students (ZBASC). They will need written permission from their supervisor, the Department and either the School of Graduate Studies or their home Faculty or School to be admitted and to register in Arts and Science courses.

Students who wish to take courses in the Faculty of Arts and Science as part of their registration as a graduate student must have permission of both the Registrar of the School of Graduate Studies and the Associate Dean (Studies) in the Faculty of Arts and Science.

13.5 – Readmission and Program/Plan Changes within the Faculty of Arts and Science
On Campus
The admission procedures described in section 13.5 are relevant for students who are or who have been registered in the Faculty of Arts and Science at Queen’s University, and who have not completed their Arts and Science degree.

13.5.1 – Current Undergraduate Students in the Faculty of Arts and Science
Undergraduate students currently enrolled in any Program or Plan in the Faculty of Arts and Science who wish to transfer from that Program/Plan to any B.A.(Hons.), B.A., B.Sc.(Hons.), B.Sc., B.Cmp.(Hons.), B.Cmp. or B.P.H.E.(Hons.) Program/Plan do not proceed through Undergraduate Admission. Instead, they follow those procedures and are subject to those limitations outlined in Academic Regulation 2.

However, applicants currently enrolled in any Program or Plan in the Faculty of Arts and Science who wish to transfer to the B.F.A.(Hons.) or B.Mus. Programs must contact the Faculty Office, Student Services, since these Programs have specialized entry requirements, as outlined in Admission Regulation 5.

Students in the B.F.A.(Hons.) and B.Mus. Programs who choose to transfer into another Program/Plan in Arts and Science should note that by doing so they have withdrawn from that specialized Program/Plan to which they were originally admitted. If they wish to return to the Program/Plan to which they were originally admitted, they will have to apply through Undergraduate Admission, and will be required to meet the minimum requirements as outlined in Admission Regulation 5.
In addition to meeting the minimum requirements outlined in Admission Regulation 5, students who have been required to withdraw from the B.Mus. Program due to a failure to demonstrate a Grade VI piano-playing level will be expected to demonstrate that they have reached Grade VI piano level, by providing the appropriate RCM certificate or by passing a School of Music Grade VI piano equivalency examination, before being readmitted to the B.Mus. Program.

13.5.2 – Former Arts and Science Students

13.5.2. 2 – Readmission
All former Arts and Science students must re-apply for admission to Queen’s if they have:
(i) completed more than the equivalent of 18.0 units, including failures, at another post-secondary institution without a Letter of Permission; or
(ii) transferred to a degree program at another post-secondary institution (other than a graduate program); or
(iii) completed a three-year diploma program at a another post-secondary institution.

13.5.2 – Former Arts and Science Students in Good Academic Standing
Students who were previously registered in the Faculty of Arts and Science in good academic standing, and who have not subsequently attended another post-secondary institution, may resume their studies by completing a Return to Studies form, available on the Arts and Science website.

Students who were previously registered in the Faculty of Arts and Science in good academic standing, who, without a Letter of Permission from Queen’s, subsequently attended another post-secondary institution and completed the equivalent of 18.0 units or less in university-level courses, including failures, or who were in or completed a two-year diploma program, or who were in, but did not complete a three-year diploma program may also resume their studies by completing a Return to Studies form, but will not receive any transfer credit for courses completed at the other post-secondary institution(s).

13.5.3 – Former Arts and Science Students on Probation or Required to Withdraw
Former Arts and Science students on probation or required to withdraw for a minimum of one year from the Faculty of Arts and Science may resume their studies by completing a Return to Studies form, available on the Arts and Science website. They will not receive transfer credit for courses completed at other institutions while they were on probation or under a requirement to withdraw (see Academic Regulations 13 and 14).

Former Arts and Science students who have been required to withdraw for a minimum of three years from the Faculty of Arts and Science may, after the minimum withdrawal period, appeal to the Office of the Associate Dean (Studies) in the Faculty of Arts and Science to have the requirement to withdraw waived (see Academic Regulation 13). They will not receive transfer credit for courses taken at other institutions while they were under a requirement to withdraw (see Academic Regulations 13 and 14).

Admission Regulation 14: Application Procedures for Distance Studies
All candidates for admission to distance studies online in the Faculty of Arts and Science apply through Undergraduate Admission. Candidates for admission to online studies will be considered for Fall, Winter or Summer term entry. On behalf of qualified applicants, Undergraduate Admission will consult with the Faculty Office and the departments concerned in determining successful candidates.

Students who have been admitted to distance studies in the Faculty of Arts and Science and who wish to transfer to on campus studies in the Faculty of Arts and Science must follow the relevant application procedures in Admission Regulation 13.

14.1 – Admission to a Distance Degree or Certificate Program
Candidates for online studies on a Degree or Certificate Program include applicants for first degrees (Admission Regulations 2, 3, 4 and 8), applicants for second degrees (Admission Regulation 7), applicants for Certificate Programs, and applicants who wish to transfer to the Faculty of Arts and Science on a Degree or Certificate Program from another Faculty or School at Queen’s or from another post-secondary institution (Admission Regulation 5). All current on-campus Queen’s students are able to register in online courses offered by the Faculty of Arts and Science.

14.2 – Admission to Non-Degree Distance Studies
Distance non-degree studies include students in the following categories:

14.2.1 Visiting Students from Other Post-Secondary Institutions
Visiting students from other post-secondary institutions who wish to take online courses in the Faculty of Arts and Science on a letter of permission, or who wish to take Arts and Science courses in locations other than on campus through the Blyth Program on a letter of permission.

14.2.2 Students Taking Courses for Interest
Candidates who meet the minimum admission standards according to their educational background and who wish to take online courses in the Faculty of Arts and Science out of interest or for professional certification.

14.2.3 Mature and Probation
Candidates may apply under the Mature Student Regulation (Admission Regulation 10) or Part-Time on Probation (Admission Regulation 11) for online studies in the Faculty of Arts and Science.

Candidates who are admitted to the Faculty of Arts and Science for online studies as Part-Time students on Probation or under the Mature Student regulation must first meet their conditions of probation before being admitted to the Faculty on a Degree Program for Part-Time studies online.
Academic Regulations and University Policies

These regulations state the requirements to be met and the procedures to be followed for the awarding of degrees in the Faculty of Arts and Science. All requests for exceptions to the regulations should be made to the appropriate reviewing body (see Appeal of Academic Decisions). Enquiries concerning Faculty regulations should be made to the Faculty of Arts and Science Faculty Office.

Faculty Regulations are constantly being reviewed and may change at any time. See http://www.queensu.ca/artsci/academic-calendar for the regulations that are currently in effect.

The following is a summary of the Academic Regulations and University Policies:

1: Academic Integrity
2: Enrolment and Registration Priorities
3: Number of Units in a Term and Academic Year
4: Courses Spanning More Than One Term
5: Auditors
6: Attendance, Course Work and Conduct
7: Assessment of Performance
8: Final Examinations and General Examinations
9: Examination Conduct
10: System of Grading and Transcript Notations
11: Review of Grades and Examinations
12: Dean's Honour Lists
13: Academic Standing
14: Credit for Courses Taken Elsewhere
15: Voluntary Withdrawal and Return to Studies
16: Requirements for Graduation
17: Misconduct in an Academic or Non-Academic Setting

Academic Regulation 1: Academic Integrity

1.1 – Introduction

1.1.1 – Definition

According to the Centre for Academic Integrity, academic integrity may be defined “as a commitment, even in the face of adversity, to five fundamental values: honesty, trust, fairness, respect, and responsibility. From these values flow principles of behaviour that enable academic communities to translate ideals into action.” The Senate Report on Principles and Priorities notes that the educational mission of Queen’s with its emphasis on “intellectual integrity”, “freedom of inquiry and exchange of ideas” and “equal dignity of all persons” depends on an adherence to academic integrity in all its actions. In support of the concept of academic integrity, students have the responsibility to familiarize themselves with the rules and regulations of the Faculty. Additional information for instructors and students and direction for appeals can be found throughout this regulation.

In accordance with the Senate Report on Principles and Priorities, academic integrity provides a foundation for the “freedom of inquiry and exchange of ideas” fundamental to the educational environment at Queen’s University. As a member of the Centre for Academic Integrity (CAI), Queen’s subscribes to the definition of academic integrity “as a commitment, even in the face of adversity, to five fundamental values: honesty, trust, fairness, respect, and responsibility.” In “The Fundamental Values of Academic Integrity”, the CAI offers the following statements contextualizing these values:

(i) **Honesty** An academic community of integrity advances the quest for truth and knowledge by requiring intellectual and personal honesty in learning, teaching, research, and service.

(ii) **Trust** An academic community of integrity fosters a climate of mutual trust, encourages the free exchange of ideas, and enables all to reach their highest potential.

(iii) **Fairness** An academic community of integrity establishes clear standards, practices, and procedures and expects fairness in the interactions of students, faculty, and administrators.

(iv) **Respect** An academic community of integrity recognizes the participatory nature of the learning process and honours and respects a wide range of opinions and ideas.

(v) **Responsibility** An academic community of integrity upholds personal accountability and depends upon action in the face of wrongdoing.

The values set out in this definition are described more fully in a document produced by the CAI titled “The Fundamental Values of Academic Integrity” and faculty, students and staff are encouraged to consult this document for a more detailed discussion.

1.1.2 – Integrity in Action

The Faculty of Arts and Science at Queen’s is dedicated to creating a scholarly community free to explore a range of ideas, to build and advance knowledge and to share the ideas and knowledge that emerges from a range of intellectual pursuits. Each value gives rise to and supports the next. **Honesty** appears in presenting one’s own work, whether in the context of an examination, written assignment, laboratory or seminar presentation. It is in researching one’s own work for course assignments. It is also present in faithfully reporting laboratory results even when they do not conform to an original hypothesis. Further, honesty is present in acknowledging dependence on the ideas or words of another and in distinguishing one’s own ideas and thoughts from others. **Trust** exists in an environment where one’s own ideas can be expressed without fear of ridicule or fear that someone else will take credit for them. **Fairness** appears in the proper and full acknowledgement of contributions of collaborators in group projects and in the full participation of partners in collaborative projects. **Respect**, in a general sense, is part of an intellectual community which “recognizes the participatory nature of the learning process and honours and respects a wide range of opinions and ideas.” However, “respect” appears in a very particular sense when students attend class, pay attention, contribute to discussion and turn papers in on time; instructors “show respect by taking students’ ideas seriously, providing full and honest feedback on their work” (“The Fundamental Values of Academic Integrity”, p. 8). Ultimately, “responsibility” is both personal and collective and draws students, faculty administrators and staff into creating and maintaining a learning environment supported by and supporting academic integrity. As the document further shows, these values are not just abstract but are expressed in and reinforced by policies and practices.

1.2 – Departures from Academic Integrity

In accordance with the Senate Report on Principles and Priorities, any departure from these values compromises the “free enquiry and the free expression of ideas, both of which are basic to the University’s central purpose”. The following list defines the domain of relevant acts without providing an exhaustive list.

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12 Academic Regulations
1.3 – Remedies or Sanctions for Departures from Academic Integrity

Following:

Recommendation

1.4.2). Academic

If the instructor believes that the finding warrants a sanction more serious than an instructor

of the drop deadlines.

If the penalty amounts to a failure in the class, the student may not drop the class, regardless

academic rules, a range of remedies or sanctions including, but not limited to, one or more of

sanctions including, but not limited to, one or more of

1.3.1 – Remedies or Sanctions an Instructor May Assign

(i) Plagiarism (presenting another’s ideas or phrasings as one’s own without

proper acknowledgement) Examples: copying and pasting from the

internet, a printed source, or other resource without proper

acknowledgement; copying from another student; using direct quotations

or large sections of paraphrased material in an assignment without

appropriate acknowledgement; submitting the same piece of work in more

than one course without the permission of the instructor(s).

(ii) Use of Unauthorized Materials Examples: possessing or using

unauthorized study materials or aids during a test; copying from another’s

test paper; using unauthorized calculator or other aids during a test;

unauthorized removal of materials from the library, or deliberate

concealment of library materials.

(iii) Facilitation (enabling another’s breach of academic integrity) Examples:

making information available to another student; knowingly allowing

one’s essay or assignment to be copied by someone else; buying or selling

term papers or assignments and submitting them as one’s own for the

purpose of plagiarism.

(iv) Forgery (submitting counterfeit documents or statements) Example:

creating a transcript or other official document.

(v) Falsification (misrepresentation of one’s self, one’s work or one’s relation to the University) Examples: altering transcripts or other official documents relating to student records; impersonating someone in an examination or test; submitting a take-home examination written, in whole or in part, by someone else; fabricating or falsifying laboratory or research data.

1.3.2 – Remedies or Sanctions the Associate Dean (Studies) May Assign or Recommend

If there is a finding of a departure from academic integrity or a finding of a failure to abide by academic rules, a range of remedies or sanctions including, but not limited to, one or more of the following may be assessed by the Associate Dean (Studies):

(i) an oral or written warning;

(ii) the submission of a revised or new piece of work;

(iii) partial or total loss of marks for the assignment/examination;

(iv) partial or total loss of marks for the course in which the departure of academic integrity took place;

(v) an official written warning that the penalty for a subsequent offence could be a requirement to withdraw from the Faculty or University for a specified minimum period of time;

(vi) the rescinding of University- or Faculty-awarded scholarships, prizes and/or bursaries;

(vii) a requirement to withdraw from the Faculty for a specified minimum period of time;

(viii) a recommendation to withdraw from the University for a specified minimum period of time; or

(ix) a recommendation for the revocation or rescinding of a degree.

No student who has been required to withdraw due to a departure from academic integrity may apply to graduate during the period of the sanction.

1.3.3 – Factors to Consider in Assigning a Sanction

Factors that should be considered in assigning a remedy or sanction include:

(i) The extent and seriousness of the departure having regard to its actual or potential consequences;

(ii) the degree to which the work or conduct in question forms a significant portion of the final grade and whether the extent of the departure is substantial as demonstrated by the work or conduct in question;

(iii) the academic experience of the student differentiating between first-year or students taking electives and upper-year students who ought to be familiar with the expectations for academic integrity in the discipline, Department and/or Faculty;

(iv) records of multiple departures within a single incident or multiple departures discovered at one time, rather than an isolated aberration;

(v) evidence of a deliberate attempt to gain advantage;

(vi) injury to another student or to the institution; or

(vii) conduct that intimidates others or provoked the misconduct by others.

Mitigating circumstances do not exonerate or excuse from the finding of a departure from academic integrity, but these factors may be taken into account to ensure that the imposed sanction is fair, reasonable and proportionate to the gravity of the departure found. The decision must outline the evidence supporting reliance on the mitigating circumstances. The onus is on the student to adduce evidence of mitigating circumstances, which may include:

(i) documented evidence from an appropriate health professional of factors directly compromising the student’s capacity to adhere to the standards of academic integrity at the relevant time;

(ii) prompt admission to the departure from academic integrity by the student and expression of contrition and willingness to undertake educative remedies; or

(iii) evidence that reasonable steps were not taken in the circumstances to bring the standards and expectations regarding academic integrity to the attention of the student at the relevant time.
In summary, any sanction should reflect the extent and severity of the departure from academic integrity, and precedents in the academic unit and Faculty, taking into account any mitigating circumstances.

### 1.3.4 – Categorizing the Finding

In preparing the finding and corresponding sanction, decision makers must also distinguish between "minor" (Level I) and "major" (Level II) departures.

In preparing the finding, decision makers should use the guidelines below to categorize the departure as being either Level I or Level II. Only one factor need apply to establish a Level II departure. Because instructors are generally the most familiar with the case and the surrounding circumstances, instructors are expected to use informed judgment and reasonable discretion in deciding on a Level I versus a Level II departure. Instructors may also seek general advice on categorizing the remedy or sanction from the Faculty Office.

#### 1.3.4.1 – Level I Departures

Level I departures will not be kept in a student’s main file, but in a separate special file that will only be accessed if there is a future finding. Central to the separation of a finding from the student’s main file is an attempt to find a balance between remediation and sanction. Whereas sanctions are necessary where there are findings of departures from academic integrity, this policy avoids treating students punitively in all cases and allows for remedies which seek to educate students about matters related to academic integrity. Level I materials are destroyed as of the date of the student’s graduation.

A Level I departure will be assessed under the following conditions:

(i) the extent or severity of the departure is limited;
(ii) the departure is on an assignment where the sanction is less than 50 per cent of the course grade and the sanction will NOT necessarily result in a failure in a course;
(iii) the student is at an early stage of his/her academic career, especially a Year 1 student, or the student has little or no experience in a course in a particular subject (for example first-time experience in a History or Psychology Department);
(iv) there is no direct evidence of a deliberate attempt to gain advantage; or
(v) there is no direct effect on other student(s) or the institution.

#### 1.3.4.2 – Level II Departures

Level II departures will be kept in the student’s main file in the Faculty Office. This file is kept confidential and is used for academic advising purposes. It will also be consulted where a finding has been copied to the Office of the Associate Dean (Studies). In rare cases, some institutions (such as American Law Schools, Medical Schools and Police Academies) request references from the Associate Dean (Studies) and the materials in the file are consulted to answer specific questions about the student’s academic history.

A level II departure will be assessed under the following conditions (only one factor need apply):

(i) the extent and severity of the departure is significant (e.g., in the case of plagiarism, the departure involves significant and unacknowledged use of one or more sources);
(ii) the sanction WILL result in a failure in a course;
(iii) the departure is by an upper-year student who has taken several previous courses in the subject (for instance, a fourth-year student);
(iv) there are previous departures from academic integrity (the case should therefore be referred to the Associate Dean);
(v) there is evidence of additional misconduct involving forgery, facilitation, etc.; or
(vi) there is a direct negative effect on other students (e.g. stealing another students’ paper, assignment, laboratory work) or the institution.

Because instructors are generally the most familiar with the case and the surrounding circumstances, instructors are expected to use informed judgment and reasonable discretion in deciding on a Level II departure.

Under current practices in the Faculty, one Level I departure results in no further action; two Level I findings result in a review of the cases by the Associate Dean (Studies) and a letter of warning which is kept in the student’s main file; and three instances of a Level I finding result in an investigation to determine if a requirement to withdraw should be recommended to the Senate Committee on Academic Procedures (SCAP). These current practices may vary depending on the seriousness of each individual departure.

### 1.4 – Processes for Investigation of Departures from Academic Integrity

#### 1.4.1 – Investigation by an Instructor of Suspected Departures from Academic Integrity in a Class

##### 1.4.1.1 – Collection of Initial Information

To begin investigating a possible departure from academic integrity, the instructor should assemble all documents related to the case. Such documents might include:

(i) the work submitted by the student for academic credit;
(ii) the source(s) from which the work submitted by the student is apparently derived;
(iii) the instructions describing the nature of the work to be done;
(iv) any e-mail between the instructor and the student relating to the work;
(v) any other materials related to the departure; or
(vi) any documents used by the instructor or his or her department stating policies on departures from academic integrity.

While collecting evidence, the instructor is encouraged to seek guidance from the Undergraduate Chair, Head, or appropriate department delegate concerning matters relating to departures from academic integrity, and from the Coordinator of Dispute Resolution Mechanisms concerning university policy and procedure.

When discussing possible departures from academic integrity, the instructor should ensure that the student’s identity remains confidential, pending a finding of departure from academic integrity.

Should the instructor decide the evidence is insufficient to proceed with further investigation, all documents related to the matter should be destroyed and all aspects of the case considered dismissed.

Should the instructor decide the evidence merits further investigation, he or she should continue the processes outlined below.
1.4.1.2 – Notification of Investigation

Where possible departures from academic integrity within a course are identified, the instructor must advise the student in writing. Instructors are encouraged to use the Notice of Investigation form. Completing the form supplies the student with the information required by Senate Policy, including:

(i) the evidence on which the investigation is based; the possible remedies or sanctions;
(ii) the student’s right to respond to the investigation; and
(iii) the student’s right to have representation for any response - the instructor will inform the student of the services provided by the Coordinator of Dispute Resolution Mechanisms.

While the case is under investigation, the instructor should address all matters to the student as “possible” or “apparent” departures from academic integrity. The instructor should include all documents relevant to the investigation (i.e., those gathered under Academic Regulation 1.4.1.1 above) along with the Notice of Investigation form.

1.4.1.2.1 – Delivery and Receipt of Documentation

To ensure that students receive the Notice and additional relevant materials in a timely manner, instructors should e-mail the students with the direction to pick up the materials from the program’s departmental office or send these documents by registered mail to the student’s local address (as obtained from the student information system).

Within 10 days of receiving the notice of investigation, the student must make an initial response to the instructor, either to schedule a meeting or to indicate that he/she does not wish to meet and will provide a written response.

1.4.1.2.2 – Student’s Enrolment Status

The student may not drop the class once a notice of investigation has been delivered. If an instructor becomes aware that a student under investigation has dropped the class, the instructor should alert the Associate Dean (Studies), who will reinstate the student pending the outcome of the case. Otherwise, if a finding is made, the Faculty Office will confirm the student’s enrolment status in the class when filing the finding, and reinstate the student at that time, if necessary.

1.4.1.2.3 – Submission of a Final Grade

If an investigation is initiated near the end of the class or otherwise cannot be resolved prior to the grade submission deadline, the instructor should assign a Grade Deferred (GD) to hold the final grade in abeyance until the investigation process has been concluded. Once the investigation is concluded, the instructor must submit a change of grade.

1.4.1.2.4 – Graduation

No student who is the subject of an ongoing academic integrity investigation may graduate, even if academic credit for the course(s) under investigation is not required to complete a degree. The Faculty will make all reasonable attempts to expedite the investigation process before the expected convocation date.

1.4.1.3 – Investigation and Meeting

1.4.1.3.1 – Convening the Meeting

In most instances, the instructor will convene a meeting with the student (and his or her representative), the instructor (and his or her representative), and witnesses where appropriate, to conduct a thorough review of the evidence. Where it is decided a meeting will occur, the instructor and the student will set a mutually agreed-upon time and the instructor will notify the student of the time and location of the meeting, the right to bring a representative, and the names of those who will be present.

1.4.1.3.2 – Student’s Alternative to Attending a Meeting

If, for any reason, the student does not wish to meet in person, he or she may submit a detailed, written explanation to the instructor, along with copies of earlier drafts of the student’s work, and any other relevant documentation. This written submission must be provided to the instructor within 10 days of receipt of the Notice of Investigation.

1.4.1.3.3 – Student’s Right to Review Documentation

At least 10 calendar days prior to the meeting, the student has the right to see any relevant material considered by the instructor in addition to the documents sent with the Notice of Investigation (see Academic Regulation 1.4.1.2).

1.4.1.4 – Deciding on a Finding

1.4.1.4.1 – No Grounds Found for a Finding

If, after an investigation of the evidence and consideration of the response by the student, the instructor determines that there are no grounds for a finding, all documents related to the case will be destroyed and the student will be informed that the investigation has been dismissed.

1.4.1.4.2 – Grounds Found for a Finding

If, after an investigation of the evidence and consideration of the response by the student, the instructor determines that there is sufficient and persuasive evidence on which to make a finding of departure from academic integrity, the instructor must then proceed to establish an appropriate remedy.

1.4.1.5 – Assessing a Sanction after a Finding is Determined

1.4.1.5.1 – Contacting the Faculty Office

After making a finding, the instructor should then contact the Faculty Office. If a previous finding is on record, the instructor will refer the case to the Associate Dean (Studies) who will set an appropriate sanction (see Academic Regulation 1.4.2.3). A record of a previous departure from academic integrity is only relevant when assessing an appropriate sanction or remedy; it should have no bearing on the determination of a finding. (See Academic Regulation 1.4.2 for the process followed by the Associate Dean (Studies) in assessing a sanction after referral from an instructor.)

1.4.1.5.2 – Referral to the Associate Dean (Studies)

If the finding appears to warrant a sanction more serious that the instructor may impose, the case shall be referred to the Associate Dean (Studies). The instructor should fill out a Finding of a Departure from Academic Integrity form, indicating that there has been a finding but that the case will be referred to the Associate Dean (Studies) for consideration of a sanction. A copy should be directed to the student either by e-mailing the student requesting that he or she picks up a copy from the instructor’s departmental office or by sending the document by registered mail. A copy should also be sent to the Associate Dean (Studies). (See Academic Regulation 1.4.2 for the process followed by the Associate Dean (Studies) in assessing a sanction after referral from an instructor.)
If there is no previous finding on record or if the instructor decides that one of the penalties outlined in Academic Regulation 1.3.1 is appropriate, then he or she will determine a remedy or sanction appropriate to the extent or severity of the offence, and may consult with the Department for guidance on an appropriate remedy or sanction.

The instructor should also determine whether the particular finding should be categorized as a Level I or Level II departure according to the guidelines in Academic Regulation 1.3.2.

1.4.1.5.3 – Sanction and Level Determined by the Instructor
If there is no previous finding on record or if the instructor decides that one of the penalties outlined in Academic Regulation 1.3.1 is appropriate, then he or she will determine a remedy or sanction appropriate to the extent or severity of the offence, and may consult with the Department for guidance on an appropriate remedy or sanction.

The instructor should also determine whether the particular finding should be categorized as a Level I or Level II departure according to the guidelines in Academic Regulation 1.3.4.

1.4.1.6 – Notification of Decision
After making the finding, setting a remedy or sanction within the scope of those available to the instructor (see Academic Regulation 1.3.1), and categorizing the departure as Level I or Level II, the instructor must inform the student in writing of the decision. Instructors are encouraged to use the Finding of a Departure from Academic Integrity form. Completing the form supplies the student with the information required by Senate Policy, including:

(i) the details of the finding of departure from academic integrity, including the reasons for the finding as supported by relevant, clear and cogent evidence;
(ii) the remedy or sanction;
(iii) the type of departure (Level I or Level II);
(iv) the student’s right to appeal the finding and/or the remedy or sanction to the Associate Dean (Studies) (see Appeal of Academic Decisions, Section 2);
(v) the deadline for appealing to the Associate Dean (Studies);
(vi) the resources available for consultation (the instructor will inform the student of the services provided by the Coordinator of Dispute Resolution Mechanisms); and
(vii) the fact that a copy of the finding will be kept on file in the Office of the Associate Dean (Studies).

Information on the process of appealing an instructor’s decision to the Associate Dean (Studies) is outlined in Appeal of Academic Decisions, Section 2.

1.4.2 – Assessment of Sanction by the Associate Dean (Studies) Upon Referral from an Instructor
If the finding made by the instructor appears to warrant a sanction more serious than the instructor may impose or if there is a previous finding of departure from academic integrity on file in the Faculty Office (see Academic Regulation 1.3.4.2), the instructor must refer the case to the Associate Dean (Studies) who will impose an appropriate sanction. The Associate Dean (Studies) may impose sanctions ranging from those listed in Regulation 1.3.2 to a recommendation to Senate Committee on Academic Procedures (SCAP) that the student be required to withdraw from the University.

1.4.2.1 – Notification of Referral
In referring the sanction for a finding of a departure from academic integrity to the Associate Dean (Studies), the instructor must advise the student in writing. Instructors are encouraged to use the Finding of a Departure from Academic Integrity form, indicating that there has been a finding but that the case will be referred to the Associate Dean (Studies) for consideration of a sanction. Completing the form supplies the student with the information required by Senate policy, including:

(i) the details of the finding of departure from academic integrity, including the reasons for the finding as supported by relevant, clear and cogent evidence;
(ii) the fact that the case is being referred to the Associate Dean (Studies) for assessment of an appropriate sanction;
(iii) the student’s right to appeal the finding and/or the remedy or sanction to the Associate Dean (Studies) (see Appeal of Academic Decisions, Section 2);
(iv) the resources available for consultation (the instructor will inform the student of the services provided by the Coordinator of Dispute Resolution Mechanisms); and
(v) the fact that a copy of the finding will be kept on file in the Office of the Associate Dean (Studies).

The instructor should also include all documents relevant to the investigation and finding with a copy sent to the Associate Dean (Studies).

To ensure that students receive the Finding and additional relevant materials in a timely manner, instructors should e-mail the students with the direction to pick up the materials from the academic unit’s main administrative office or send these documents by registered mail to the student’s local address (as obtained from the student information system).

Within 10 days of receiving the notice of investigation, the student must make an initial response to the Associate Dean (Studies), either to schedule a meeting or to indicate that he/she does not wish to meet and will provide a written response.

1.4.2.2 – Investigation and Meeting
1.4.2.2.1 – Convening the Meeting
In most instances, the Associate Dean (Studies) will convene a meeting with the student (and his or her representative), the instructor (and his or her representative), and witnesses where appropriate, to conduct a thorough review of the evidence as it relates to assessing an appropriate sanction (as outlined under Academic Regulation 1.3.3). This review will allow the Associate Dean (Studies) to weigh the mitigating and aggravating circumstances (as outlined in Academic Regulation 1.3.3) to arrive at an appropriate sanction. Where it is decided a meeting will occur, the Associate Dean (Studies) will notify the student and the instructor of the time and location of the meeting. The student will also be informed of the right to bring a representative and the names of those who will be present. In preparation for the meeting, the Associate Dean (Studies) may request additional relevant materials.

1.4.2.2.2 – Student’s Alternative to Attending a Meeting
If, for any reason, the student does not wish to meet in person, he or she may submit a detailed, written explanation to the instructor, along with copies of earlier drafts of the student’s work, and any other relevant documentation. This written submission must be provided to the instructor within 10 days of receipt of the notice of investigation.

1.4.2.2.3 – Student’s Right to Review Documentation
At least 10 calendar days prior to the meeting, the student has the right to see any relevant material considered by the Associate Dean (Studies) in addition to the documents sent with the Finding (see Academic Regulation 1.4.1.2).
1.4.2.3 – Assessing a Sanction

After a review of the evidence and consideration of the response by the student, the Associate Dean (Studies) will inform the student of the appropriate sanction or remedy according to the guidelines in Academic Regulation 1.3.2, categorize the sanction as Level I or Level II, and inform the student and the instructor in writing of the following:

(i) the remedies or the sanctions and reasons for them;
(ii) the type of departure (Level I or Level II);
(iii) the student’s right to appeal the finding and/or the remedy or sanction to the Academic Integrity and Conduct Panel (see Appeal of Academic Decisions, Section 2);
(iv) the deadline for appealing to the Academic Integrity and Conduct Panel;
(v) the resources available for consultation (the Associate Dean (Studies) will inform the student of the services provided by the Coordinator of Dispute Resolution Mechanisms); and
(vi) the fact that, in the case of a Level II finding, a copy of the finding will be kept on file in the Office of the Associate Dean (Studies).

Appeals of the decisions of the Associate Dean (Studies) may be made to the Faculty of Arts and Science Academic Integrity and Conduct Panel as outlined in Appeal of Academic Decisions, Section 2.

1.4.3 – Investigation of Suspected Departures From Academic Integrity by the Associate Dean (Studies)

Where possible departures from academic integrity are identified that involve more than one course, multiple instances, or the possibility of forgery or falsification (see Academic Regulation 1.3.3), the Associate Dean (Studies) may initiate an investigation. In addition, an instructor may request (in writing) that the Associate Dean (Studies) conduct an investigation on his or her behalf when such serious departures are suspected. The Associate Dean (Studies) may also undertake an investigation of a departure from academic integrity in academic matters unrelated to performance in a course.

1.4.3.1 – Preliminary Investigation: Collection of Initial Information

To begin investigating a possible departure from academic integrity, the Associate Dean (Studies) should assemble all documents related to the case. Such documents might include:

(i) the work submitted by the student for academic credit;
(ii) the source(s) from which the work submitted by the student is apparently derived;
(iii) the instructions describing the nature of the work to be done;
(iv) any e-mail between the instructor and the student relating to the work;
(v) any other materials related to the departure;
(vi) any documents used by the instructor or his or her department stating policies on departures from academic integrity.

While collecting evidence, the Associate Dean (Studies) is encouraged to seek guidance from the Undergraduate Chair, Head, or appropriate department delegate concerning matters relating to departures from academic integrity, and from the Coordinator of Dispute Resolution Mechanisms concerning university policy and procedure.

When discussing possible departures from academic integrity, the Associate Dean (Studies) should ensure that the student’s identity remains confidential, pending a finding of departure from academic integrity.

Should the Associate Dean (Studies) decide the evidence is insufficient to proceed with further investigation, all documents related to the matter should be destroyed and all aspects of the case considered dismissed.

Should the Associate Dean (Studies) decide the evidence merits further investigation, he or she should continue the processes outlined below.

1.4.3.2 – Notice of Investigation of Departure from Academic Integrity

The Associate Dean (Studies) must advise the student in writing of the following:

(i) the evidence on which the investigation is based;
(ii) the student’s right to respond to the investigation; and
(iii) the student’s right to have representation for any response; the Associate Dean (Studies) will inform the student of the services provided by the Coordinator of Dispute Resolution Mechanisms.

The Associate Dean (Studies) should also include all documents relevant to the investigation and finding.

1.4.3.2.1 – Delivery and Receipt of Documentation

To ensure that students receive the Notice of Investigation and additional relevant materials in a timely manner, the Office of the Associate Dean (Studies) should e-mail the students with the direction to pick up the materials from the Student Services Office or send these documents by registered mail to the student’s local address (as obtained from the student information system).

Within 10 days of receiving the notice of investigation, the student must make an initial response to the Associate Dean (Studies), either to schedule a meeting or to indicate that he or she does not wish to meet and will provide a written response.

1.4.3.3 – Investigation and Meeting

1.4.3.3.1 – Convening the Meeting

In most instances, the Associate Dean (Studies) will convene a meeting with the student (and his or her representative), the instructor (and his or her representative), and witnesses where appropriate, to conduct a thorough review of the evidence as it relates to the departure. Where it is decided a meeting will occur, the Associate Dean (Studies) will notify the student and the instructor of the time and location of the meeting. The student will also be informed of the right to bring a representative and the names of those who will be present. In preparation for the meeting, the Associate Dean (Studies) may request additional relevant materials.

1.4.3.3.2 – Student’s Alternative to Attending a Meeting

If, for any reason, the student does not wish to meet in person, he or she may submit a detailed, written explanation to the Associate Dean (Studies), along with copies of earlier drafts of the student’s work, and any other relevant documentation. This written submission must be provided to the instructor within 10 days of receipt of the notice of investigation.

1.4.3.3.3 – Student’s Right to Review Documentation

At least 10 calendar days prior to the meeting, the student has the right to see any relevant material considered by the Associate Dean (Studies) since issuing the Notice of Investigation, in addition to the documents sent with the Notice of Investigation (see Academic Regulation 1.4.3.2).
1.4.3.4 – Finding of Departure from Academic Integrity

1.4.3.4.1 – No Grounds Found for a Finding

If, after an investigation of the evidence and consideration of the response by the student, the Associate Dean (Studies) determines that there are no grounds for a finding, all documents related to the case will be destroyed and the student will be informed that the investigation has been dropped.

1.4.3.4.2 – Grounds Found for a Finding

If, after an investigation of the evidence and consideration of the response by the student, the Associate Dean (Studies) determines that there is sufficient and persuasive evidence on which to make a finding of departure from academic integrity, the Associate Dean (Studies) must set an appropriate remedy or sanction and then notify the student in writing.

1.4.3.5 – Assessing a Sanction after a Finding is Determined

The Associate Dean (Studies) will consider the factors discussed in Regulation 1.3.3 in setting a sanction. The sanction should reflect the extent and severity of the departure from academic integrity, and precedents in the Faculty, taking into account any mitigating circumstances.

After making the finding and setting the corresponding sanction, the Associate Dean (Studies) will categorize the departure as being either Level I or Level II as outlined in Academic Regulation 1.3.4.

1.4.3.6 – Notification of Decision

After making the finding, setting a remedy or sanction and categorizing the departure as Level I or Level II, the Associate Dean (Studies) must inform the student of the following:

(i) the details of the finding of departure from academic integrity, including the reasons for the finding as supported by relevant, clear and cogent evidence;
(ii) the remedy or sanction;
(iii) the type of departure (Level I or Level II); and
(iv) the student’s right to appeal the finding and/or the sanction to the Academic Integrity and Conduct Panel (see Appeal of Academic Decisions, Section 2);
(v) the deadline for appealing to the Academic Integrity and Conduct Panel;
(vi) the resources available for consultation; the Associate Dean (Studies) will inform the student of the services provided by the Coordinator of Dispute Resolution Mechanisms; and
(vii) the fact that, in the case of a Level II finding, a copy of the finding will be kept on file in the Office of the Associate Dean (Studies).

Appeals of the decisions of the Associate Dean (Studies) may be made to the Faculty of Arts and Science Academic Integrity and Conduct Panel as outlined in Appeal of Academic Decisions, Section 2.

Academic Regulation 2: Enrolment and Registration Priorities

2.1 – Students at Level 1 (Fewer than 24.0 Units Completed)

2.1.1 – Programs and Plans for Level 1 Students

Most students entering Level 1 of study will be registered in a Degree Program, but not a specific Plan.

Those students entering the Faculty of Arts and Science in one of the following four specialized Degree Programs

(i) Bachelor of Fine Art (Honours);
(ii) Bachelor of Music;
(iii) Bachelor of Physical and Health Education (Honours); or
(iv) Bachelor of Science (Honours), Specialization in Kinesiology will be registered in the appropriate Plan upon admission.

Upon entering Level 1, students may select from any of the courses available to first-year students that are offered in the Faculty of Arts and Science subject to the following limitations:

(i) Those courses in which, in order to enroll, students must demonstrate a suitable level of competency through a placement test, audition or interview with the department or the course instructor.
(ii) Those courses in which, in order to enroll, students must have completed the necessary secondary school (or equivalent) prerequisite requirements.
(iii) Those courses reserved for students registered in one of the four specialized Degree Programs noted above.
(iv) High-demand Arts courses, in which enrolment priority will be given to those admitted as Arts students; similarly, high-demand Science courses, in which enrolment priority will be given to those admitted as Science students. Such courses will normally be announced in early June of each year. NOTE: During the open enrollment period, most enrolment limitations of this nature are removed and any available spots in high-demand courses become available to all Arts and Science students, provided that any other existing prerequisite requirements are satisfied.

2.2 – Students Entering Level 2 (24.0 to Fewer than 48.0 Units Completed)

2.2.1 – Application for Programs and Plans

All students, other than those in the four specialized Degree Programs noted in Regulation 2.1.1, who anticipate entering Level 2 following the completion of Winter Term, must apply for access to a specific Program and Plan(s). The Program and Plan selection period will normally take place during two weeks in May of each year, following release of the Winter Term final grades.

2.2.2 – Academic Thresholds for Priority and Eligibility of Applicants

In consultation with the Faculty of Arts and Science, departments administering a given Plan are responsible for developing specific academic thresholds for priority and eligibility of students for acceptance in the Plan in question. These thresholds will be formulated taking into account both academic requirements and the number of spaces available in that Plan. The thresholds may vary from year to year based on the predicted size and strength of the applicant pool. The threshold criteria will consist of a minimum cumulative grade point average (GPA) and/or a minimum grade in a single course. These criteria will normally be published on the
Faculty of Arts and Science website by March of each academic year. Two thresholds will be determined for each Plan:

(i) **Automatic Acceptance Threshold**
Students whose academic achievements in first year meet or exceed this threshold are considered to be academically qualified for the Plan, and will normally be automatically eligible for acceptance in the Plan.

(ii) **Pending List Threshold**
Students whose academic achievements in first year meet or exceed the pending list threshold, but fall below the automatic acceptance threshold, are considered to be academically qualified for the Plan. The students’ level of performance is such, however, that in limited-enrolment Plans, or those Plans in which complex academic evaluations take place (usually those Plans administered in partnership with one or more departments), these students will be placed on a pending list until such a time as their academic credentials can be reviewed in detail by the department administering the Plan.

Students whose academic achievements in first year fall below the pending list threshold are not considered to be academically qualified for the Plan, and will be denied acceptance.

During the Program and Plan selection period, students must choose one Plan for which they meet the automatic acceptance threshold criteria. They shall then be registered in that Plan. In addition, students may select up to one Plan for which they are eligible to be placed on the pending list but are not eligible for automatic acceptance. Following the selection period, departments will review the students on the pending list for each Plan under their administration. Any remaining spaces in that Plan shall be made available to students on the pending list in rank order of academic qualification. Such students shall be de-registered from the Plan in which they were originally accepted and registered in the new Plan.

Those students who wish to pursue a Major-Minor Plan combination shall first select a Major Plan for which they are eligible for automatic acceptance or placement on a pending list and then select a Minor Plan in a similar fashion.

2.2.3 – Enrolment Priorities in Plans
While the departments and Faculty of Arts and Science will make every effort to ensure that the automatic acceptance threshold in any Plan is such that the Plan will not be oversubscribed, should it become apparent during the selection period that a particular Plan has become over-enrolled, the Faculty of Arts and Science reserves the right to move those students ranked lowest academically from automatic acceptance to the pending list for that Plan and require said students to choose another Plan for which they meet the automatic acceptance threshold.

2.2.4 – Late Requests for Plans
Students who fail to participate in the Program and Plan selection period or who are admitted after the Program and Plan selection period has finished must make direct application to the department offering their Plan of choice. They will be considered subject to academic criteria and space availability.

2.3 – Students Continuing in Level 2 or above
Once registered in a Program and Plan(s), students may not be removed from that Program and Plan(s) unless they successfully request transfer to another Program and Plan(s).

Students should note, however, that departments administering a Plan may impose minimum prerequisites to determine academic eligibility for access to some or all of its upper-level courses (those numbered 200 and above, and see Regulation 2.5 below). These prerequisites, however, will be determined such that a student deemed initially acceptable to the Plan, and operating at a similar level of ongoing academic performance, will not be restricted from continuing. Students who fail to meet these prerequisites will effectively be barred from continuing in the Program and Plan(s) in which they are enrolled. Such students should seek academic advice from the Department(s) concerned and/or the Office of the Associate Dean (Studies).

2.4 – Transfer of Programs and Plans
Students wishing to transfer to Bachelor of Fine Art or Bachelor of Music must apply through the Faculty Office, Student Services (see Admission Regulation 13). For all other Programs and Plans, students will not normally be permitted to request transfer before the beginning of the Winter Term following the time at which they participated in the Program and Plan selection period. To request a transfer of Plan, the student must apply directly to the department administering the new Plan. Departments may set, and publish on their websites, minimum criteria for accepting transfer students at various levels of that Plan. Acceptance into a new Plan will be contingent on there being space within that Plan.

2.5 – Access to Classes

2.5.1 – Eligibility to Enroll in Classes
Students, other than those in Level 1, must be enrolled in an approved Plan to gain access to classes and become registered.

Eligibility for registration in all classes rests on course prerequisites, corequisites and exclusions as stated in the Calendar. In special circumstances, departments may waive these requirements.

2.5.2 – Priority to Enroll in Classes
Priority for requested classes is determined by individual departments based on the following three criteria. Exchange students who satisfy the criteria listed below will be granted entry on the same basis as other students. At the discretion of the department, exchange students may be admitted to classes even if they do not meet these criteria.

2.5.2.1 – Academic criteria
During the summer class selection period departments may choose to restrict access to certain classes to ensure that priority is given to students in the appropriate Plan. Student access to classes is subject to the following priorities listed in descending order. Priority will be given to students for whom the class is:

1) Core in their Plan;
2) An option in their Plan;
3) Part of their recognized concurrent-education teaching subject;
4) An elective, or an option in the Plan beyond the normal load.

Within each category, priority will be given to students who have the specified prerequisites and:

1) Are furthest along in their Plan;
2) Are not repeating the course.
2.5.2.2 – Number of spaces available
The University reserves the right to limit enrolment in any class that becomes oversubscribed.

2.5.2.3 – Student participation in the official registration process
Students requesting classes after the summer class selection period, including those admitted too late to participate in the class selection period, will be considered subject to space availability.

2.6 - Enrolment in Graduate Courses
Arts and Science students may be permitted to take courses offered through the School of Graduate Studies for credit toward their undergraduate degree program under the following conditions:

(i) Enrolment requires the approval of the instructor, the Chair of Undergraduate Studies in their Department of concentration and the School of Graduate Studies;

(ii) Permission to enrol is only available to level 4 students (84.0 or more units completed) whom the Departments deems to be outstanding (generally taken to mean first-class standing); and

(iii) The same course(s) may not count for credit in both a graduate and undergraduate degree program in with the student is registered or subsequently registers.

Academic Regulation 3: Number of Units in a Term and Academic Year

3.1 – External Agencies
The primary purpose of this regulation is to define the number of units a student may register in during any term. For this purpose, students are designated as having either Full-Time or Part-Time Registration Status in the faculty. Full-time or part-time registration status defines a student’s maximum allowed course load and is based solely on academic criteria. Students should note that many external bodies (e.g. OSAP, Revenue Canada, scholarship agencies, or other academic institutions) may have different definitions of full-time or part-time course load for the purposes of grant funding, scholarship eligibility or taxation status. If in doubt of your course load status in regards to such agencies, please contact the Office of the University Registrar, or the external agency directly, as appropriate, for advice.

3.2 – Full-Time Registration Status

3.2.1 – Normal Course Loads for Full-Time Students
Full-time students in most Arts and Science programs normally take a total of 15.0 units in each of the Fall and Winter Terms for a total of 30.0 units over the Fall-Winter period (September 1 to April 30). The normal load for students in B.Mus., B.A.(Hons.)/B.Ed. and B.Sc.(Hons.)/B.Ed. is greater than 30.0 units. Full-time students may choose, at any time, to register in fewer classes, or to drop classes (before the published deadlines), such that they fall below this course load and retain their right to full-time registration status in a future term.

3.2.2 – Maximum Course Loads for Full-Time Students
In any Fall-Winter period, full-time students may be registered in no more than 36.0 units, and no more than 18.0 units in either of the Fall or Winter Terms. More than 30.0 units should not be sought for the purpose of making up a deficiency due to past failure, or if the student’s cumulative GPA is less than 1.90. First-year students in most disciplines are not encouraged to attempt more than 30.0 units. Only 30.0 units may be requested during the summer class selection period. A student must obtain written permission from the Associate Dean (Studies) in order to take more than 36.0 units in the Fall-Winter period (or more than 18.0 units in any one term). Students who wish to appeal a negative decision to take more than 36.0 units (or 18.0 units in any one term) must appeal to the Board of Studies in writing (see Appeal of Academic Decisions, Section 3).

3.3 - Part-Time Registration Status

3.3.1 – Maximum Course Load for Part-Time Students
Part-time students in any Arts and Science program may take up to a total of 9.0 units in each of the Fall and Winter Terms for a maximum course load of 18.0 units over the Fall-Winter period.

3.3.2 – Transfer to Full-Time Registration Status
Part-time students on a degree program are eligible to transfer to full-time registration status if:

(i) They have completed a minimum of 24.0 Queen’s units, excluding repeated courses, from the time at which they were admitted part-time to a degree program or were placed on part-time status; and

(ii) Achieved a minimum cumulative GPA of 1.90;

OR

(i) They have completed a minimum of 18.0 Queen’s units, excluding repeated courses, from the time at which they were admitted part-time to a degree program or were placed on part-time status; and

(ii) Achieved a minimum cumulative GPA of 2.90

Eligible students who wish to be admitted to full-time registration status need to apply through Undergraduate Admission. Once admitted, students may elect to register in a full-time course load in accordance with Academic Regulation 3.2.

3.3.3 – Maximum Course Load for Mature Students
Students admitted under the Mature Student Regulation may take a maximum course load of 3.0 units per term or 6.0 units over the Fall-Winter period, as per Admission Regulation 10. This regulation may not be appealed.

3.4 – Courses Spanning More Than One Term
Note that for the purposes of determining a student’s course load, the total unit weighting of courses that span more than one term shall be divided equally between the two terms in which that course is operated (see Academic Regulation 4).

3.5 – Summer Term
Students normally take no more than two courses (regardless of unit value) at any time during the Summer Term. This is considered equivalent to a normal course load for a full-time student. Students on probation, with previous failures or with outstanding work from a previous term should not exceed this course load. Students in good standing taking more than two courses should closely monitor their ability to keep up with assigned readings, complete assignments on time and achieve a satisfactory academic standing in all work in each course. Students should be aware of the established deadlines for dropping courses without academic penalty and are expected to drop courses, if necessary, before these deadlines. Taking on more than two courses at any time during the Summer Term does not constitute sufficient grounds for an academic appeal to drop courses after the deadline.
3.6 – Registration in courses from the Faculty of Engineering and Applied Science
The number of Engineering and Applied Science courses which may be taken by Arts and Science students is limited, and may not exceed the number of Arts and Science courses taken in a given term.

Arts and Science students may, with permission of the instructor and the Associate Deans of both Engineering and Applied Science and Arts and Science, register for a maximum of two such courses in an academic term.

Students should note that, in accordance with the Degree Program Information section of this calendar, not all courses offered by the Faculty of Engineering and Applied Science may be eligible for credit towards an Arts and Science degree program, and that the unit weighting of such courses may not be deemed equivalent in the two faculties.

Academic Regulation 4: Courses Spanning More Than One Term

4.1 – Nomenclature
Courses than span more than one term (full-year courses) shall be divided into separate classes for each term in which they are offered. The class offered in the first term shall be denoted with the suffix “A” and the class offered in the second term shall be denoted with the suffix “B”.

4.2 – Prerequisites and Registration

4.2.1 – Prerequisites
The prerequisite, if any, for the first half of the course shall be that indicated in the Courses and Programs section of this Calendar. The prerequisite for the second half of the course shall be the first half of said course. Students must therefore register in the first half prior to registering in the second half of the course. Note that some such courses may be offered in more than one lecture, tutorial and/or laboratory section. At the discretion of the Department administering the course, students may be required to register in the same said section in both terms, or may be freely able to choose different sections in each term, subject to timetable and enrolment limits.

4.2.2 – Registration
Students must register separately in both halves of the course to be deemed to have registered in the course. Students who have failed to register in both halves of the course shall, following the deadline to add classes, have the section in which they have registered removed from their academic record by the Office of the University Registrar and shall be required to appeal to the Associate Dean (Studies) for late registration (see Appeal of Academic Decisions, Section 3).

4.3 – Dropping Full-Year Courses
Students who wish to drop a full-year course must separately drop both halves of the course. Both halves must be dropped on or before the deadline to drop Fall term classes without academic penalty (see Academic Calendar Dates); otherwise a mid-year grade of NG (not graded) shall be assigned to the first half of the course. If a student wishes to drop a full-year course after the deadline to drop Fall term classes without academic penalty, but prior to the deadline to drop Winter term classes without academic penalty, only the second half may be dropped. The chart below shows the impact of dropping full-year courses on the academic transcript.

<table>
<thead>
<tr>
<th>Grade on Transcript</th>
<th>Timing of Full-Year Course Drop</th>
<th>First Half</th>
<th>Second Half</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>a) By Fall Term deadline to drop</td>
<td>DR</td>
<td>n/a</td>
</tr>
<tr>
<td></td>
<td>b) By Fall Term deadline to drop</td>
<td>NG</td>
<td>n/a</td>
</tr>
<tr>
<td></td>
<td>c) By Winter term deadline to drop</td>
<td>NG</td>
<td>DR</td>
</tr>
</tbody>
</table>

4.4 – Credit and Grading

The first half of a full-year course shall earn 0.0 units and may not be used to meet the degree requirements of any Program or Plan, or any prerequisite, corequisite or exclusion requirement. The earned units for the full-year course shall be placed on the second half of the course. Upon successful completion of a full-year course, the first half of the course shall be assigned a grade of NG (Not Graded) (see Regulation 10). The final grade for the course, including any incomplete (IN) or grade deferred (GD) status shall be assigned to the second half of the course. Note that for the purposes of determining the student’s academic load, half of the units assigned to the full-year course will be applied toward the academic progress units for each term in which the course is offered (see Academic Regulation 3).

4.5 – Appeals
No part of Academic Regulation 4 may be appealed.

Academic Regulation 5: Auditors

5.1 – Audit Policies
Students may not audit language acquisition classes, distance classes, nor any class that is predominantly performance-based. Students must have the consent of the instructor(s) and Departmental Chair of Undergraduate Studies to audit other intramural classes. In giving consent to audit a class, the instructor will discuss with the auditor to determine the extent of the auditor's participation in classes, field trips, laboratories, etc. Auditors are not entitled to submit assignments or write examinations. Students are not required to apply for admission, but they must register formally as auditors through the Faculty Office. A fee will apply.

5.2 – Appeals
No part of Academic Regulation 5 may be appealed.

Academic Regulation 6: Attendance, Course Work and Conduct

6.1 – Participation and Conduct in Classes
Students must be registered in a class to be eligible to attend or otherwise participate in lectures, laboratories, tutorials, tests, and examinations associated with the class. Students are expected to be, and at the discretion of the instructor, may be required to be present at all lectures, laboratories, tutorials, tests, and examinations in their classes and to submit essays, exercises, reports, and laboratory work at the prescribed times. Student conduct in lectures, laboratories, tutorials, tests and examinations must conform to the Code of Conduct. Students whose conduct does not conform to the Code of Conduct may be issued a warning in writing.
from the class instructor. Subsequent failure to conform to the Code of Conduct may result in a written requirement to withdraw from the class (see Regulation 17).

6.2 – Submission of Course Work
For purposes of evaluation, assignments and other course work must be submitted in a legible form. Instructors may require that work be in typewritten form, but must state this at the outset of the class. A student who foresees difficulty meeting this requirement must inform the instructor immediately. An instructor may require, in addition, the submission of the original manuscript and/or written notes.

6.3 – Absence and Missed Course Work
A student who claims illness or compassionate grounds as reason for missing lectures, laboratory work, or assignments is responsible for making alternative arrangements with the instructors concerned for extensions or other accommodation. Though medical or other supporting documentation may not be required by the instructor, the student should be prepared to show relevant documentation should the instructor deem it necessary.

If there is a significant effect on attendance or academic performance such that the student may wish to request an incomplete grade, Aegrotat or Credit Standing, the student is responsible for obtaining appropriate documentation at the time of treatment. See Regulation 10 for further information about Aegrotat and Credit Standing. Information about appeals to the Associate Deans (Studies) for Aegrotat or Credit Standing can be found in Appeal of Academic Decisions, Section 3.

Academic Regulation 7: Assessment of Performance

7.1 – Determination of the Final Grade for a Course
The choice of the elements to be used in determining the final grade for a course and the weighting of these elements are decided by the department. The following elements may be used: the work of the term, including, where appropriate, essays and exercises, class tests, reports, seminar participation and laboratory work; a final examination. Students who feel their final examination or final grade has not been accurately assessed may request a review of their work (see Academic Regulation 11).

7.2 – Scheduling of Class Elements

7.2.1 – Provision of a Written Outline
Before the end of the second week of the term in which a class starts, instructors must provide a written outline of the basic features of the class. At a minimum, the class outline should include a description of the class objectives and a clear statement of the basis on which final marks are assigned. Instructors should specify the term work expected and weight, if any, that it will contribute to the final mark.

7.2.2 – Testing During Class Periods
Subject to Regulation 7.2.3, tests in regular class periods may be held by instructors at any time. An instructor may not schedule a test or examination outside of the scheduled class time if doing so creates a conflict with a student’s other officially scheduled class time.

7.2.3 – Restrictions on Assessment
Major tests and de facto examinations are strictly prohibited in the last two class weeks and in the study period designated by Senate prior to the examination period.

7.2.3.1 – Major Tests or Quizzes
A test or quiz is deemed to be major if it:

(i) takes place outside of a regular lecture or laboratory period; or
(ii) covers more than the work of the preceding six weeks; or
(iii) counts for more than 10 per cent of the final mark in a 6.0-unit class or 20 per cent of the final mark in a 3.0-unit class.

7.2.3.2 – De Facto Examinations, Major Term Essays, and Seminar Presentations
De facto examinations are essentially replacements for final examinations or end-of-term tests for which the Senate provides a schedule. A take-home examination that conforms to (ii) and (iii) above may not be due between the beginning of the 11th week of classes and seven days after the beginning of the examination period. A major term essay – one that conforms to (iii) above – should be assigned in the first half of the term if it is due any time between the beginning of the 11th week of classes and the end of the examination period. A seminar presentation that conforms to (i), (ii) or (iii) above should be assigned in the first half of the term if it is to be held in the last two weeks of term.

7.2.4 – Exceptions to the Restrictions on Assessment
Exceptions must be approved by the Associate Dean (Studies). (Exceptions to the above guidelines might include individual oral examinations in language acquisition courses and laboratory examinations requiring the hands-on use of apparatus or materials.)

7.3 – Submission of Mid-Year Grades
At the end of the Fall Term, instructors for full-year classes numbered P01 to 199 (with the exception of distance classes) will submit mid-year grades. These grades are made available to students in January as an indication of their progress. Mid-year grades do not appear on official transcripts.

Academic Regulation 8: Final Examinations and General Examinations

8.1 – Supplemental Examinations
There are no supplemental examinations in courses offered in the Faculty of Arts and Science.

8.2 – Scheduling of Final Examinations

8.2.1 – Location and Timing of Final Examinations
The final examination in any class offered in any term or session (including Summer Term) must be written on the campus on which the class was taken, at the end of the appropriate term or session.

8.2.2 – Schedule Conflicts
A student discovering a conflict (two examinations at the same hour, three examinations in a 24-hour period or an examination at the same hour as a religious observance) should report the conflict to the University Examinations Office, as soon as possible.

8.3 – Access to Examination Question Papers

8.3.1 – Publication of Previous Years’ Examination Question Papers
For reference purposes, final examination question papers will normally be made available by the end of September (for the previous academic year) to students through their publication in the Exambank, which is available online. Exemptions from the policy for particular
examination question papers may be granted by the Associate Dean (Studies) only in exceptional circumstances and only on an annual basis, on the written request of the instructor, with the signed approval of the Head of Department.

8.3.2 – Release of Examination Question Papers as per Exchange Agreements
Exchange agreements may require instructors to release copies of final examinations, including those exempted from the policy in Regulation 8.3.1 above, to exchange students for review by the home university.

8.4 – Additional Examination Time for Official Exchange Students
Students studying at Queen’s on an official exchange whose first language is not English may apply to the University Examinations Office for additional time of 0.5 hour to write each final examination. They may also bring one language translation dictionary to the examination.

8.5 – Examinations in Distance Classes
8.5.1 – Location of Distance Examinations
Students living in the Kingston area taking Queen’s distance classes are expected to write their examinations on campus. For students living outside the Kingston area, a list of established examination centres for distance classes is available from Continuing and Distance Studies. If there is not an established centre within 100 kilometres of a student’s residence, one will be established at no charge.

Students requesting a change to the examination centre location after the deadline to make these changes must contact the Correspondence Examinations Coordinator, and if approved, an administrative charge will be assessed.

8.5.2 – Scheduling of Distance Examinations
Students must write the examinations in distance classes at the time scheduled by the Examinations Office.

Students who face extraordinary circumstances beyond their control and cannot comply with the examination schedule must notify the Correspondence Examinations Coordinator. Students who find themselves in such circumstances may seek permission to write the examination at a later time by appealing in writing to the instructor of the course. Such students seeking permission to write the examination at an earlier time than the scheduled time must appeal in writing to the Office of the Associate Dean (Studies) as well as to the instructor (see Appeal of Academic Decisions, Section 3). In both cases an administrative charge will apply.

8.5.3 – Scheduling Deferred Distance Examinations
Students who are granted permission by the instructor to defer their distance examination(s) to a subsequent term and who request to reschedule at an off-campus location will be subject to a non-refundable administrative fee for each examination, including additional charges as may be incurred by the University to set up the deferred examination.

8.6 – General Examinations
One or two general examinations may be set by the department(s) concerned for students in the fourth year of an honours Program. General examinations do not count in the total number of courses required for the degree. The weight of the examination in calculating the eligibility for Degree with Distinction will be determined by the individual departments and published in their respective chapters in the Calendar. The general examinations may be either written or oral. Students must register for any required general examination(s) at the same time they register for their fourth-year courses.

8.7 – Formal Review of Final Examinations
Students who feel their final examination has not been accurately assessed may request a formal review of the examination paper (see Academic Regulation 11).

Academic Regulation 9: Examination Conduct

9.1 – Admission To and Dismissal From the Examination Hall
Students are required to bring their Queen's Photo ID to the examination and to display it at the top corner of the examination table. Any candidate arriving at an examination hall after the beginning of the examination will receive only the remaining time in which to write the examination. The late candidate's paper will be marked only at the discretion of the Facult. No candidate will be allowed to leave the examination hall within 30 minutes of the distribution of examination papers.

9.2 – Restrictions on Articles Taken Into the Examination Hall
No articles such as textbooks, notes, books of tables, data sheets, graphs, paper, written material, calculators, etc., may be taken into the exam hall unless authorized by the instructor in writing at least 3 days before the exam. Food, drinks (except bottled water in a transparent bottle), recording or playback devices, and other electronic communication devices such as a cell phone or smartphone are not permitted in the exam hall. Likewise, handbags, purses, and book bags are not permitted in an exam hall. Students should bring only essential items to the exam. The University assumes no responsibility for personal property lost in or near any examination hall.

9.3 – Examination Regulations
A student is responsible for adhering to all Examination Regulations (see the Examination Regulations online at the University Registrar’s website). All examination hall irregularities will be reported in writing by the Chief Proctor to the instructor of the course and to the Associate Dean (Studies). Normally, such irregularities will be dealt with under the regulations pertaining to departures from academic integrity (see Academic Regulation 1).

Academic Regulation 10: System of Grading and Transcript Notations

10.1 – Evaluative Grades
Normally, students receive letter grades for performance in courses offered by the Faculty of Arts and Science. The evaluative grades for all courses offered by the Faculty of Arts and Science are:

A+ B+ C+ D+
A B C D
A+ B- C- D- F (Failure)

A passing grade is D- or above. A student who achieves a grade of F in a course will not earn credit towards a degree program.
10.2 – Non-Evaluative Grades

10.2.1 – Aegrotat Standing

Aegrotat estimated standing in a course is reserved for situations in which a student, who has completed and passed at least 60 per cent of the work for a course, but because of illness or other extenuating circumstances beyond his or her control, is unable to complete all the work of the course (see Academic Regulation 6). Aegrotat grades will be included in the student’s grade point average and can be used as credit earned towards a degree program.

A student seeking aegrotat standing in a class must have the written support of the instructor and must submit a formal appeal to the Office of the Associate Dean (Studies) (see Appeal of Academic Decisions, Section 3). If the request is granted, this estimated letter grade will appear on the student’s transcript together with a note reading “Aegrotat: Estimated Grade.”

Students may be granted aegrotat and/or credit standing for a maximum of 36.0 units during their entire program.

10.2.2 – Credit Standing (CR)

Credit standing (CR) in a course is reserved for situations in which a student, who has completed and passed all of the work of the course, including the final examination, but because of illness or other extenuating circumstances beyond his or her control, earned a substantially lower grade than might have been expected, normally a grade of C or lower (see Academic Regulation 6). A course with credit standing will not be included in the student’s grade point average but can be used as credit earned towards a degree program. For the purposes of determining prerequisite requirements, a CR grade shall be considered equivalent to a C-. Students who wish to use a course in which they have credit standing as a prerequisite for registering in a further class may need to appeal to the instructor of the class if the prerequisite requirement includes a grade higher than C. The instructor has the authority to waive this prerequisite at their discretion. Use of a course with credit standing for admission to a Plan shall be at the discretion of the department.

A student seeking credit standing in a course must have the written support of the instructor and must submit a formal appeal to the Office of the Associate Dean (Studies) (see Appeal of Academic Decisions, section 3). If the request is granted, the designation CR will appear on the student’s transcript in place of a letter grade.

Students may be granted aegrotat and/or credit standing for a maximum of 36.0 units during their entire program.

10.2.3 – Grade Deferred (GD)

Grade Deferred standing (GD) is a temporary designation reserved for circumstances in which
(i) a student has submitted all the work in a course, but the final grade is not available (e.g. late assignments not yet marked); or
(ii) a suspected departure from academic integrity is under investigation or under appeal and a final grade for the course cannot yet be determined.

The instructor shall indicate to the Associate Dean (Studies) the special circumstances under which the GD is being assigned, and in the case of (i) above, shall provide a timeline for submission of the final grade.

A grade of GD will not be included in the determination of a student’s grade point average, and any course with a GD designation may not be counted for credit towards a degree program.

NOTE: GD differs from the notation IN, which indicates that a student has not submitted all the work assigned and the instructor has agreed to accept the outstanding work.

10.2.4 – Incomplete (IN)

Incomplete standing (IN) is a temporary designation reserved for a course in which a student who, because of extenuating circumstances beyond his or her control, has not completed all term work for a course or requests permission to defer the writing of a final examination.

A student seeking incomplete standing may be requested to provide, at the instructor’s discretion, a medical certificate or other documentation that demonstrates extenuating circumstances, and must arrange with the instructor to complete a “Permission for an Incomplete Mark” form available from the Arts and Science website. The “Permission for an Incomplete Mark” form indicates the current letter grade for the course based on the work completed, the specific work yet to be finished and a date by which the outstanding work will be submitted. The date for the work to be completed should be reached by mutual agreement between the instructor and student. Incomplete work can be submitted no later than the end of the subsequent term.

In cases where a student will receive a failing grade if all outstanding work is not completed or the exam is not written, an IN grade will be submitted by the instructor. A grade of IN will not be included in the determination of a student’s grade point average, and any course with an IN designation may not be counted for credit towards a degree program. If the outstanding work is not submitted by the end of the subsequent term, the IN grade will lapse to an F (Failure) and will be included in the student's grade point average.

In cases where a student will pass the course even if the outstanding work is not completed or the exam is not written, the actual earned letter grade will be assigned. The letter grade shall be included in the student’s grade point average and may be counted for credit towards a degree program. If the outstanding work is not submitted by the end of the subsequent term, the original letter grade shall stand.

Any extensions beyond either the date of the first agreement or the end of the subsequent term must be based on further extenuating circumstances and will require an appeal to the Office of the Associate Dean (Studies) with support from the instructor (see Appeal of Academic Decisions, Section 3).

10.2.5 – Pass in a Pass/Fail Course (P)

A Pass standing (P) is reserved for a course in which a student successfully completes all the requirements in a course designated as pass/fail. A course that has been designated Pass standing will not be included in the student’s grade point average but can be counted for credit towards a degree program.

10.2.6 – Transfer Credit (TR)

A transfer credit (TR) designation is reserved for a course in which a student undertakes study at another accredited post-secondary institution (see Academic Regulation 14). A transcript note will accompany this entry, indicating the University or other academic institution from which the credit was earned, and the degree program to which the transferred course is being credited. For purposes of internal evaluation of course prerequisites and admission to second year only, the TR designation shall be deemed equivalent to a grade of C. In the case of transfer credit for International Baccalaureate (IB), Advanced Placement (AP), CEGEP, or A-
Level (GCE) courses, grades of A or B may also be deemed equivalent depending on student performance. Under no circumstances shall the grade provided by another post-secondary institution be placed on the Queen’s transcript.

Students who wish to use a course in which they have a TR designation as a prerequisite for registering in a further class may need to appeal to the instructor of the class if the prerequisite requirement includes a grade higher than C. The instructor has the authority to waive this prerequisite at their discretion.

Transfer Credit designations will not be included in the student’s grade point average but may be counted for credit towards a degree program.

10.2.7 – Audit (AU)
The Audit (AU) designation is reserved for courses in which a student officially attends a class as a registered auditor but in which the student does not undertake any work to be marked by the instructor.

Audit designations will not be included in the student’s grade point average and may not be counted for credit towards a degree program (see Academic Regulation 5).

10.2.8 – Dropped (DR)
The Dropped (DR) designation indicates a course that is dropped by a student after the deadline to drop without financial penalty and before the deadline to drop without academic penalty, or as the result of a successful appeal.

Dropped designations will not be included in the student’s grade point average and will not count for credit towards a degree program.

10.2.9 – Not Graded (NG)
The Not Graded (NG) designation indicates the completion of the first half of a full-year course. A student will receive an NG designation at the end of the first term in which the class was in progress. At the end of the second term in which the course is offered a letter grade or other appropriate designation shall be entered.

Not Graded designations will not be included in the student’s grade point average and will not count for credit towards a degree program. No course with an NG designation may subsequently be counted as partial or full credit towards completion of another course at Queen’s University, or as transfer credit.

10.3 – Courses in Progress (no designation)
Transcripts shall note all courses in progress during the academic term in which they are offered. Such courses in progress shall have no designations attached to them.

10.4 – Grade Point Average (GPA)
10.4.1 Letter Grade/Grade Point Table
All letter grades shall have grade points associated with them, according to the following table:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.3</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
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<td>C-</td>
<td>1.7</td>
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<td>D+</td>
<td>1.3</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
</tr>
<tr>
<td>F</td>
<td>0.0</td>
</tr>
</tbody>
</table>

The grade point average (GPA) shall be calculated by multiplying the grade points earned in a course by the unit value of that course, then dividing by the total number of units attempted during the period of time over which the GPA is being determined. Grade point averages may be determined over three periods for evaluative purposes:

10.4.2 – Cumulative GPA
The cumulative GPA shall be determined using all courses attempted and for which grade points are assigned over the course of a student’s registration as an undergraduate at Queen’s University. In the case of students who transfer into the Faculty of Arts and Science from another Faculty or School at Queen’s, Dual Degree students (including those in Concurrent Education programs) and Second Degree students, all courses attempted in other Faculties/Schools and/or towards other degree programs shall be included in the cumulative GPA. Unless otherwise indicated in the academic regulations, when reference is made to a GPA, a cumulative GPA is indicated.

10.4.3 – Term GPA
The Term GPA shall be determined using all courses attempted and for which grade points are assigned during a particular academic term.

10.4.4 – Academic Year GPA
The Academic Year GPA shall be determined using all courses attempted and for which grade points are assigned during a particular academic year starting on 1 September and ending on the subsequent 31 August.

10.4.5 – Retaking Courses
If a course is repeated, the higher mark achieved shall be used in the determination of the GPA. To determine which grade takes precedence when one of the course attempts results in a TR or a CR, the TR shall be considered equivalent to a grade of C and a CR to a grade of C-. If a TR or CR takes precedence they will not be used in the GPA calculation.

10.4.6 – Students who began a course of study before 1 May 2011
Numeric (percentage) grades have been assigned to classes that were offered up to and including the Winter Term of 2011. These numeric grades will continue to appear on the transcript for students who began a course of study before 1 May 2011. However, cumulative percentage averages will not be used for any academic purpose from May 2011 onwards. GPA values will instead be calculated based on the grade points assigned to these numeric grades.
grades. For conversion purposes, numeric grades shall be associated with grade points according to the following table:

<table>
<thead>
<tr>
<th>Numeric Equivalent (prior to 1 May 2011)</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>90 – 100%</td>
<td>4.3</td>
</tr>
<tr>
<td>85 – 89%</td>
<td>4.0</td>
</tr>
<tr>
<td>80 – 84%</td>
<td>3.7</td>
</tr>
<tr>
<td>77 – 79%</td>
<td>3.3</td>
</tr>
<tr>
<td>73 – 76%</td>
<td>3.0</td>
</tr>
<tr>
<td>70 – 72%</td>
<td>2.7</td>
</tr>
<tr>
<td>67 – 69%</td>
<td>2.3</td>
</tr>
<tr>
<td>63 – 66%</td>
<td>2.0</td>
</tr>
<tr>
<td>60 – 63%</td>
<td>1.7</td>
</tr>
<tr>
<td>57 – 59%</td>
<td>1.3</td>
</tr>
<tr>
<td>53 – 56%</td>
<td>1.0</td>
</tr>
<tr>
<td>50 – 52%</td>
<td>0.7</td>
</tr>
<tr>
<td>0 – 49%</td>
<td>0.0</td>
</tr>
</tbody>
</table>

10.5 – Change of Grade
The deadline for submission of a change of final grade by an instructor can be no later than the end of the term following that in which the class was offered. If the change of grade is not submitted within that timeline, the existing grade in the course shall stand. Any extensions beyond the end of the subsequent must be based on extenuating circumstances and will require an appeal from the student to the Associate Dean (Studies) with support from the instructor (see Appeal of Academic Decisions, Section 3).

Academic Regulation 11: Review of Grades and Examinations

11.1 – Review of Term Work
Students have the right to a review of any grade assigned in a course subject to the marking scheme set out by the instructor(s).

Information about appeals of Instructors’ decisions on grading of term work can be found in Appeal of Academic Decisions, Section 3.

11.2 – Final Examinations and Final Grades
Students have the right to a review of their final examination papers. For this purpose, final examination paper means the final examination question paper in a class and the graded answer paper written by the student which, by Senate policy, must be retained for a period of 12 months.

Information about appeals of Instructors’ decisions on grading of final examinations can be found in Appeal of Academic Decisions, Section 3.

Academic Regulation 12: Dean’s Honour Lists

12.1 – Dean’s Honour List
Students on a Degree Program who have obtained an academic year GPA of at least 3.50, but less than 3.90 at the end of the Summer term will be placed on the Dean’s Honour List and will have this honour noted on their transcript. To be eligible for the Dean’s Honour List the following conditions must be met:

Students must have completed a minimum of 18.0 units in the relevant Fall-Winter-Summer academic year. There may be no failures and no repeated course registrations in the relevant Fall-Winter-Summer academic year. There may be no outstanding IN or GD grades. All final grades and changes of grade must be submitted by 31 August, the final date for determination of an Academic Year GPA.

12.2 – Dean’s Honour List with Distinction
Students on a degree program who have obtained an Academic Year GPA of at least 3.90 at the end of the Summer term will be placed on the Dean’s Honour List with Distinction and will have this honour noted on their transcript. To be eligible for the Dean’s Honour List with Distinction the same conditions as for the Dean’s Honour List as noted in 12.1 above must be met.

12.3 – Decisions on Dean’s Honour Lists

Because decisions related to this regulation are solely dependent on particular levels of academic performance, no part of Academic Regulation 12 may be appealed.

Academic Regulation 13: Academic Standing

13.1 – Assessment
Academic standing is assessed once a year at the end of the Winter term. All students who have completed a minimum of 18.0 units since the time of admission to the Faculty of Arts and Science, or who have completed a minimum of 18.0 units since the time of their previous assessment, shall be assessed. Assessment of academic standing is based solely on the Cumulative GPA.

13.2 – In Good Academic Standing
Students are described as being in good academic standing unless otherwise notified.

13.3 – Academic Probation

13.3.1 – Criteria for Placement on Academic Probation
A student shall be placed on academic probation if he or she:

has a Cumulative GPA of less than 1.60 at the time of assessment; or
returns to studies after having previously been required to withdraw; or
is admitted to the Faculty of Arts and Science on full-time or part-time registration status on probation (see Admission Regulation 12); or
is a student registered in the B.Mus. program who has not demonstrated Royal Conservatory Grade VI piano playing by the end of their first year in the B.Mus. program.

The academic standing “Placed on Academic Probation” shall be placed on the student’s transcript.

13.3.2 – Academic Restrictions Resulting from Placement on Academic Probation

Students placed on academic probation are not permitted to register for classes offered at the Bader International Study Centre (BISC). Students may be considered for admission to the BISC after they are released from academic probation.
Students placed on academic probation will not be allowed to transfer units from another post-secondary institution for courses taken while on probation (see Academic Regulation 14.3).

Concurrent Education students who are placed on academic probation in the Faculty of Arts and Science will not be permitted to register in education classes until they are released from probation.

13.3.3 – Release from Academic Probation
Any student who is placed on academic probation, other than a B.Mus. student lacking Grade VI piano playing ability, and who achieves a Cumulative GPA greater than or equal to 1.60 at the time of their next academic standing assessment shall be released from academic probation.

Any B.Mus. student lacking Grade VI piano playing ability (but otherwise having a GPA greater than or equal to 1.60) must fulfill this requirement by September of their second year by providing the appropriate Royal Conservatory of Music certificate or by passing an equivalency examination in order to be released from academic probation and allowed to continue in the B.Mus. program. B.Mus. students who do not fulfill the Grade VI piano playing ability by September of their second year will be required to withdraw from the B.Mus. program for a minimum of one year. They may be eligible to transfer to another degree program in the Faculty of Arts and Science. To be eligible to apply for readmission to the B.Mus. program students must demonstrate that they have reached Grade VI piano level by providing the appropriate Royal Conservatory of Music certificate or by passing an equivalency examination (see Admission Regulation 13).

13.3.4 – Appeal of Decisions on Academic Probation
Because decisions related to this regulation are solely dependent on particular levels of academic performance, no part of Academic Regulation 13.3 may be appealed.

13.4 – Requirement to Withdraw for One Year (RTW1)
13.4.1 – Criteria for RTW1
A student shall be Required to Withdraw for One Year if he or she: has a Cumulative GPA of less than 0.70 at the time of assessment; or is on academic probation at the time of assessment and has a Cumulative GPA of less than 1.60.

The academic standing “Required to Withdraw for One Year” shall be placed on the student’s transcript.

13.4.2 – Academic Restrictions Resulting from RTW1
Students who have been required to withdraw for one year will not be permitted to register in the Faculty of Arts and Science for twelve months. After a twelve-month period has passed students may register by contacting the Faculty of Arts and Science and submitting a Return to Studies Form.

Students who are required to withdraw for one year will not be allowed to transfer units from another post-secondary institution for classes taken while required to withdraw (see Academic Regulation 14.3).

13.4.3 – Appeal of Decisions on RTW1
Information about an appeal to waive the requirement to withdraw for one year can be found in Appeal of Academic Decisions, Section 3.

In exceptional circumstances, academic probation may be imposed by the Associate Dean (Studies) as an alternative to requiring a student to withdraw. The special conditions that the student must meet in such instances will be determined by the Associate Dean (Studies) on an individual basis.

If a student wishes to appeal the decision of the Associate Dean (Studies) the student must do so in writing to the Board of Studies (see Appeal of Academic Decisions, Section 3).

13.5 – Requirement to Withdraw for a Minimum of Three Years (RTW3)
13.5.1 – Criteria for RTW3
A student shall be Required to Withdraw for a Minimum of Three Years if he or she: has a Cumulative GPA of less than 0.70 at the time of assessment and has previously been required to withdraw for One Year, even if that previous requirement to withdraw was waived on appeal; or is on academic probation at the time of assessment and has a Cumulative GPA of less than 1.60 and has previously been required to withdraw. Note that any student who has been required to withdraw and returns to studies is automatically placed on academic probation under Academic Regulation 13.3. Therefore, any student previously required to withdraw must achieve a Cumulative GPA of greater than 1.60 at their next academic assessment upon their return to studies, or they will be required to withdraw for a minimum of three years.

The academic standing “Required to Withdraw for a Minimum of Three Years” shall be placed on the student’s transcript.

13.5.2 – Academic Restrictions Resulting from RTW3
Students who have been required to withdraw for a minimum of three years will not be permitted to register in the Faculty of Arts and Science for thirty-six months. After the minimum withdrawal period of three years has passed, students who wish to return to Queen’s must appeal to the Office of the Associate Dean (Studies) to have the requirement to withdraw waived (see Appeal of Academic Decisions, Section 3). All students who return to studies in the Faculty of Arts and Science after a period of absence of three years or more are subject to the degree program requirements in effect at the time of their return.

Students who are required to withdraw for a minimum of three years will not be allowed to transfer units from another post-secondary institution for classes taken while required to withdraw.

13.5.3 – Appeal of Decisions on RTW3
Information about an appeal to waive the requirement to withdraw for three years can be found in Appeal of Academic Decisions, Section 3.

If a student is within 12.0 units of completing a degree, that student’s case will be reviewed by the Associate Dean (Studies), who may impose a lesser penalty. In exceptional circumstances, academic probation may be imposed by the Associate Dean (Studies) as an alternative to requiring a student to withdraw. The special conditions which the student must meet in such instances will be determined by the Associate Dean (Studies) on an individual basis.
If a student wishes to appeal the decision of the Associate Dean (Studies) the student must do so in writing to the Board of Studies (see Appeal of Academic Decisions, Section 3).

13.6 – Other Requirements to Withdraw
The Associate Dean (Studies) may, at any time, either during the term or after the close of the term, recommend to Faculty Board that a student whose attendance, work, or progress is deemed unsatisfactory, be required to withdraw from the Faculty of Arts and Science.

The Associate Dean (Studies) will notify the student in writing of the potential requirement to withdraw, the reasons for the decision, and advise the student of the opportunity to respond to the potential requirement to withdraw. The student must also be advised of the right to have representation for any response made to the potential requirement to withdraw. (On matters of procedure and representation, the University Dispute Resolution Advisors are available for consultation and assistance.)

Normally the Associate Dean (Studies) will convene a meeting with the student (and his or her representative) and, where appropriate, instructors (and their representatives) and witnesses, to thoroughly review the case for the potential requirement to withdraw. This investigation may involve written submissions and/or oral evidence presented by witnesses concerning the grounds for the potential requirement to withdraw. The student must be notified, in writing, when the meeting on the case will be convened, invited to appear at the meeting, and be advised of the right to have representation at the meeting. At least 10 calendar days prior to the meeting, the student has a right to know what, if any, material from the student’s file will be considered.

After considering the available evidence, the Associate Dean (Studies) must inform the student in writing of the decision to proceed with a recommendation to Faculty Board that the student be required to withdraw from the Faculty. The student must also be informed in writing of the opportunity to appeal the decision to the Board of Studies (see Appeal of Academic Decisions, Section 3).

13.7 – Honours Warning
13.7.1 – Criteria for Honours Warning
A student shall be given an honours warning if he or she:

- has a Cumulative GPA of greater than or equal to 1.60 but less than 1.90 at the time of assessment and is otherwise in good academic standing.

The academic standing of honours warning will not be placed on the student’s transcript. Instead, the student will be informed in writing that while they are currently in good academic standing, their GPA is such that they would be ineligible to receive an Honours degree.

13.7.2 – Appeal of Decisions on Honours Warning
A student may not appeal an honours warning standing because it is the direct result of a particular level of academic performance. The honours warning standing, as such, does not remove them from good academic standing.

13.8 – Ineligible to Proceed to an Honours Degree
13.8.1 – Criteria for being deemed Ineligible to Proceed to an Honours Degree
A student shall be deemed to be ineligible to proceed to an Honours Degree if he or she has attempted 132.0 or more units at the time of assessment and has a Cumulative GPA of less than 1.90.

The academic standing “Ineligible to Proceed to an Honours Degree” shall be placed on the student’s transcript.

13.8.2 – Academic Restrictions Resulting from Ineligible to Proceed to an Honours Degree
A student who has been deemed ineligible to proceed to an Honours Degree may not register in further classes in the Faculty of Arts and Science excepting those that may be required in order to complete a non-Honours degree program with a general plan. Permission to register in such classes must be sought from the Associate Dean (Studies).

13.8.3 – Appeal of Decisions on Ineligible to Proceed to an Honours Degree
A student may not appeal an ineligible to proceed to an Honours degree standing because it is the direct result of a particular level of academic performance.

Academic Regulation 14: Credit for Courses Taken Elsewhere

14.1 – Letters of Permission
Subject to the requirements of Academic Regulation 16, a student on a Degree Program in the Faculty of Arts and Science may be permitted to take undergraduate classes elsewhere for credit toward a degree offered by the Faculty of Arts and Science. The student must obtain a letter of permission from the Arts and Science Faculty Office prior to enrolling in classes at another post-secondary institution. There is a non-refundable application fee for a letter of permission.

To obtain a letter of permission, a student must be in good academic standing (see Academic Regulation 13), have a minimum Cumulative GPA of 1.90 and have completed a minimum of 6.0 units on a Degree Program in the Faculty of Arts and Science.

14.2 – Conditional Letters of Permission: Level 1 Students
A student who has completed fewer than 24.0 units may apply for a conditional letter of permission if their Cumulative GPA (including mid-year grades on full-year courses) is at least 1.90 on a minimum of three courses for which evaluative grades are granted. If the student fails to be in good academic standing following the assessment period at the end of the Winter term (see Academic Regulation 13), the conditional letter of permission will be considered null and void, and the student will not be permitted to transfer any units taken at another post-secondary institution.

14.3 – Students Required to Withdraw or on Probation
Courses taken at other post-secondary institutions by Arts and Science students while on academic probation or under a requirement to withdraw will not be transferred to Queen’s (see Academic Regulations 15 and 13).
14.4 – Level 3 and 4 Students
Normally the last two years of an Honours degree are taken in the Faculty of Arts and Science at Queen’s. A student in Level 3 or 4 who is in good academic standing and has achieved a Cumulative GPA of at least 1.90 may spend the third or fourth year of an Honours program at another post-secondary institution with the written permission of the department(s) administering his or her Plan(s) and the written permission of the Associate Dean (Studies). If approval is granted, the student must obtain a letter of permission from the Arts and Science Faculty Office prior to applying to the host institution as a visiting student.

14.5 – Registration Status
A student who has obtained a letter of permission should register at the host institution as a visiting student rather than as a student on a degree program. Registering at the host institution on a degree program will jeopardize the student’s admission status at Queen’s, and the student will be required to apply to Undergraduate Admission for readmission to Queen’s (see Academic Regulation 15). A letter of permission issued to a student who subsequently transfers to another post-secondary institution will be considered null and void.

14.6 – Obtaining Transfer Credit
To transfer credit to Queen’s for a class taken elsewhere, a passing final grade equivalent to at least C at Queen’s must be obtained, unless otherwise stated on the letter of permission. The transfer credit, not the grade achieved, will be transferred to the student’s record at Queen’s (see Academic Regulation 10). Transfer credits for courses taken at another post-secondary institution will not be added to the student’s record at Queen’s unless the student is in good academic standing. It is the responsibility of the student to submit an original transcript in a sealed envelope directly from the host institution to the Faculty of Arts and Science Office. The original transcript will be maintained on file in the Office of the University Registrar.

14.7 – Procedures to Graduate
A student who is granted a letter of permission to complete the final course(s) of his or her Degree Program at another post-secondary institution during the Fall-Winter academic year, and who intends to graduate in the Spring convocation, must submit an official transcript in a sealed envelope directly to the Faculty of Arts and Science Office by the second week of May. Meeting this deadline will ensure that the student’s name appears in the convocation program and that the student’s diploma is printed for the day of the ceremony.

A Student who is granted a Letter of Permission to complete the final course(s) of his or her Degree Program at another post-secondary institution during the Summer term, and who intends to graduate in the Fall convocation, must submit an official transcript to the Faculty of Arts and Science Office by the first week of October. Meeting this deadline will ensure that student’s name appears in the convocation program and that the student’s diploma is printed for the day of the ceremony.

Academic Regulation 15: Voluntary Withdrawal and Return to Studies

15.1 – Voluntary Withdrawal
Students may withdraw voluntarily, without academic penalty, prior to deadlines published in this Calendar (see Academic Calendar Dates). It is recommended that students consult with an academic advisor in the Faculty of Arts and Science Office before withdrawing. Students must drop all their classes and return their student cards to the Office of the University Registrar in order to withdraw from Queen’s.

15.2 – Return to Studies
15.2.1 – Exchanges and Letters of Permission
Students who were required to withdraw for one year or who were placed on academic probation may attend another post-secondary institution while away from the University. However, they will not be permitted at any time to transfer credits for courses taken elsewhere while required to withdraw or while on academic probation (see Academic Regulations 13 and 14). These students must complete and return the appropriate section of the Return to Studies form to the Faculty of Arts and Science Office in order to register in classes.

Students who were required to withdraw for a minimum of three years must further appeal to the Associate Dean (Studies) (see Academic Regulation 13) in order to register in classes once at least three years have elapsed.

15.2.2 – Students Required to Withdraw or on Probation
Students who were required to withdraw for one year or who were placed on academic probation may attend another post-secondary institution while away from the University. However, they will not be permitted at any time to transfer credits for courses taken elsewhere while required to withdraw or while on academic probation (see Academic Regulations 13 and 14). These students must complete and return the appropriate section of the Return to Studies form to the Office of the Associate Dean (Studies) in order to register in classes.

15.2.3 – Students in Good Academic Standing
15.2.3.1 – Not Attending Another Institution
Those students in good academic standing who did not attend any other post-secondary institution while away from the University must complete and return the appropriate section of the Return to Studies form to the Office of the Associate Dean (Studies) in order to register in classes.

15.2.3.2 – Attending Another Institution Without Leave
Those students in good academic standing who, without a letter of permission:
(i) completed 18.0 or fewer university-level units (including failures) at another post-secondary institution; or
(ii) were registered in or completed a certificate or two-year diploma program at a post-secondary institution; or
(iii) were registered in a three-year diploma program at a post-secondary institution, but did not graduate and who are willing to waive their right to any transfer credit earned while withdrawn from the University must complete and return the appropriate section of the Return to Studies form to the Office of the Associate Dean (Studies) in order to register in classes.

If a student without a letter of permission wishes to have transcripts evaluated for the purpose of receiving transfer credit from another institution, they must instead apply for readmission as an external student (see Admission Regulations 5 and 13). Such students must meet the minimum admission requirements for external students to be accepted. Such students are not guaranteed access to all Plans, including that in which they were registered before leaving Queen’s. Therefore, it is strongly recommended that such students speak to an academic advisor before applying through Undergraduate Admission.

Those students in good academic standing who:
(i) transferred to a university degree program at another post-secondary institution (excluding a graduate program; or
(ii) graduated from a three-year diploma program at a post-secondary institution; or
(iii) without a letter of permission, completed more than 18.0 university-level units (including failures) at another post-secondary institution; or
(iv) hold any other status at another post-secondary institution not described in this regulation

must apply for readmission as an external student (see Admission Regulations 5 and 13). Such students must meet the minimum admission requirements for external students to be accepted. Such students are also not guaranteed access to all Plans, including that in which they were registered before leaving Queen’s.

Academic Regulation 16 – Requirements for Graduation

16.1 – Three-Year Degrees
16.1.1 – GPA Requirements
The awarding of the B.A., B.Sc., B.Cmp., B.F.A. and B.P.H.E. degrees is conditional on receiving a minimum Cumulative GPA of 1.60 and a minimum GPA of 1.60 on the courses used towards the General Plan requirements of the degree.

16.1.2 – Applying Transfer Credits
No more than 42.0 units in the Program and no more than the following number of units in the Plan may be transfer credits (grade of TR) from outside Queen’s University:

(i) For the General Arts (B.A.) Plans, 12.0 units
(ii) For the General Science or Computing (B.Sc. or B.Cmp.) Plans, 18.0 units
(iii) For the General Fine Art (B.F.A.) Plan, 24.0 units
(iv) For the General Physical and Health Education (B.P.H.E.) Plan, 24.0 units

16.2 – Honours Degrees
16.2.1 – GPA Requirements
The awarding of the B.A.(Hons.), B.Sc.(Hons.), B.Cmp.(Hons.), B.F.A.(Hons.), B.P.H.E.(Hons.) and B.Mus. degrees is conditional on receiving a minimum Cumulative GPA of 1.90 and a minimum GPA on the courses used towards the Plan requirements of the degree as follows:

(i) For Specialization and Major Plans, a minimum GPA of 1.90.
(ii) For Major-Minor Plan combinations, a minimum GPA of 1.90 on the Major Plan requirements, and a minimum GPA of 1.60 on the Minor Plan requirements.
(iii) For Medial Plan combinations, a minimum GPA of 1.90 on the requirements of each of the Medial Plans.

16.2.2 – Applying Transfer Credits
No more than 54.0 units in the Program and no more than the following number of units in the Plan(s) may be transfer credits (grade of TR) from outside Queen’s University:

(i) For Specialization Plans, one-half less 6.0 units of the total required for the Plan
(ii) For Major Plans, 24.0 units
(iii) For Medial Plans, 18.0 units
(iv) For Minor Plans, as per the corresponding General Plan requirements noted above in Academic Regulation 16.1.2.

16.3 – Degrees with Distinction
16.3.1 – Requirements for Degree with Distinction
Graduation with Distinction will be awarded to students who have achieved the following:

(i) a minimum Cumulative GPA of 3.50, and
(ii) a minimum GPA of 3.50 on the courses used towards all the Plan requirements of the degree; and
(iii) no failed grades, no outstanding IN or GD grades, and no repeated classes during their Undergraduate Career.

16.3.2 – Applying Transfer Credits
As per Academic Regulation 10, Transfer credits (grade of TR) are not used towards the calculation of any GPA. Therefore, for students offering courses from other universities to meet the Queen’s degree requirements, the GPA is calculated on Queen’s courses only.

16.3.3 – Appeal of Decisions on Degrees with Distinction
As decisions related to this regulation are solely dependent on particular levels of academic performance, no part of Academic Regulation 16 can be appealed.

16.4 – Application to Graduate
A degree candidate must apply to graduate when registering for the final year of the degree program, or at least by 30 April for Spring convocation, by 30 September for Fall convocation, and by 15 November for Winter convocation.

Academic Regulation 17: Misconduct in an Academic or Non-Academic Setting

17.1 – Unacceptable Behavior Within the Context of a Class
17.1.1 – Cases Handled by the Instructor
When unacceptable behaviour occurs in the context of a specific component of a class in which the student is registered (e.g. lectures, laboratories, field trips, clinical settings) the instructor may deal with the matter by notifying the student in writing of the alleged behaviour, the possible sanctions, and the opportunity to respond to the allegation. Possible sanctions may include, but are not limited to, a statement of apology, the assignment of work reflecting on the unacceptable behaviour, and/or refusal to accept work submitted by the student pertinent to the portion of the class in which the behaviour took place.

The student must also be advised of the right to have representation for any response made to the allegation of unacceptable behaviour in the context of a class. (On matters of procedure and representation, the University Dispute Resolution Advisors are available for consultation and assistance.)

Normally the instructor will meet with the student (and his or her representative) to conduct a thorough investigation of the available evidence. This investigation may involve written submissions and/or oral evidence presented by witnesses to the alleged unacceptable behaviour. At least 10 calendar days prior to the meeting, the student has the right to know what, if any, material from the student’s file will be considered.

After considering the available evidence, the instructor must inform the student in writing of the decision and the sanction, if any, that will be imposed. If a sanction is imposed, the
instructor must inform the student in writing of the opportunity to appeal the finding and/or the sanction to the Associate Dean (Studies) (see Appeal of Academic Decisions, Section 3).

17.1.2 – Cases Handled by the Associate Dean (Studies)
If the matter is more serious than the sanction an instructor can impose would satisfy, the case should be referred by the instructor to the Associate Dean (Studies) who may impose sanctions ranging from those noted above to requiring the student to withdraw from the class or recommending to Senate that the student be required to withdraw from the Faculty or from the University.

The instructor must inform the student in writing that the case has been referred to the Associate Dean (Studies). The Associate Dean (Studies) will notify the student in writing of the alleged behaviour, the possible sanctions, and the opportunity to respond to the allegation. The student must also be advised of the right to have representation for any response made to the allegation of unacceptable behaviour. On matters of procedure and representation, the University Dispute Resolution Advisors are available for consultation and assistance.

Normally the Associate Dean (Studies) will convene a meeting with the student (and his or her representative), the instructor (and his or her representative), and witnesses where appropriate, to conduct a thorough investigation of the available evidence. This investigation may involve written submissions and/or oral evidence presented by witnesses to the alleged misconduct. The student and instructor must be notified, in writing, when the meeting on the case will be convened, invited to appear at the meeting, and be advised of the right to have representation at the meeting. At least 10 calendar days prior to the meeting, the student has the right to know what material will be considered.

After considering the available evidence, the Associate Dean (Studies) must inform the student in writing of the decision and the sanction, if any, that will be imposed. If a sanction is imposed, the Associate Dean (Studies) must inform the student in writing of the opportunity to appeal the finding and/or the sanction to the Academic Integrity and Conduct Panel (see Appeal of Academic Decisions, Section 3).

17.2 - Unacceptable Behaviour Outside the Context of a Class
When unacceptable behaviour occurs in an academic or academic-related setting, but not in the context of a class in which the student is registered (e.g. other classes), the aggrieved party shall refer the case either to the Judicial Committee of the Alma Mater Society (or of the Graduate Student Society if appropriate), or to the Committee on Non-Academic Discipline. Before referring the case to either body, the aggrieved party is advised to consult with the University Secretariat.

17.3 – Cases Handled by the Committee on Non-Academic Discipline
When the sanctions specified above in Academic Regulation 17.1 are deemed inadequate or inappropriate by the instructor or the Associate Dean (Studies), the matter shall be referred by either the instructor or the Associate Dean (Studies) to the Committee on Non-Academic Discipline. The clerk of the relevant Judicial Committee shall then be notified by the Chair of the Committee on Non-Academic Discipline of this referral. (If the Judicial Committee Clerk does not agree that the Committee on Non-Academic Discipline, rather than the Judicial Committee, has jurisdiction in the case, the Chair of the University Student Appeal Board shall decide on the forum in which the case is to proceed.)

The Committee on Non-Academic Discipline may impose such sanctions as it considers appropriate including withdrawal from the Faculty, and recommendation to the Senate for dismissal from the University.

17.4 – Appeal and Review of Decisions

17.4.1 – Appeal of a Decision Made by the Associate Dean (Studies)
If the student is not satisfied with a decision referred to in Academic Regulation 17.1, the next stage of review lies with the Committee on Non-Academic Discipline. The student is advised to consult a University Dispute Resolution Advisor or the Dean of Student Affairs. In all cases, within 21 calendar days of receiving the decision, the student must send an appeal in writing to the Chair of the Faculty Board, who will refer it to the Committee.

The Committee will consider the appeal and, subject to Academic Regulation 17.4.2, its decision will be final.

17.4.2 – Appeal of a Decision Made by the Committee on Non-Academic Discipline
Any appeal of a decision made by the Committee on Non-Academic Discipline shall be made through the system for handling grievances as recorded by the Senate Policy on Student Appeals, Rights and Discipline, available from the University Secretariat.
Appeal of Academic Decisions

Information on the appeals process is available from F200 Mackintosh-Corry Hall or at http://www.queensu.ca/artsci/help/academic-appeals. Faculty Regulations are consistently being reviewed and may change at any time. For the most up-to-date version of this appeal information and the Academic Regulations see the Web Calendar at http://www.queensu.ca/artsci/academic-calendar.

The following is a summary of the Appeal of Academic Decisions:

1: Introduction
2: Appeals Related to Academic Integrity
3: Appeals on Matters Other than Those Related to Academic Integrity

Section 1: Introduction

1.1 – General Overview of Appeal of Academic Decisions
The Academic Regulations for the Faculty of Arts and Science are designed to ensure that academic standards are upheld and that all students are treated fairly and equitably. The Faculty does, however, understand that there are occasions in which extenuating circumstances – that is, personal circumstances beyond a student’s control – adversely affect a student’s performance at Queen’s University. The appeal process is available to reconsider the suitability of sanctions or penalties imposed upon a student in light of information brought forward by the student concerning such extenuating circumstances.

In general, with the exception of appeals related to final examinations, final grades, or non-academic discipline where other criteria will apply, appeals are only granted where there are significantly extenuating circumstances, beyond the student’s control, which would merit the waiving of a particular Faculty regulation or decision. Extenuating circumstances normally involve a significant physical or psychological event that is beyond a student’s control and debilitating to his or her academic performance. These kinds of extraordinary situations should be supported by official documentation from an appropriate professional.

Official documentation does not need to outline the specifics of the particular condition or matter affecting the student, but should clearly indicate ways in which the extenuating circumstances directly affected the student’s performance, and should verify that these effects were substantial enough to cause the academic problem. Information on the start, duration and present state of the extenuating condition is critical to helping the instructor, Associate Dean (Studies) or Board of Studies to make an informed decision. Further, a clear statement on whether the condition or circumstances have either improved or are being managed so that they will not have a significant detrimental effect on future academic performance is also essential.

The appeals process does not compensate for extenuating circumstances that the student is unable to resolve, or for which the student is unwilling to actively seek accommodation. In addition, the appeals process does not compensate for extenuating circumstances that are actively being accommodated, for example where a student’s permanent disabilities are being accommodated through the university’s Disability Services Office. Multiple appeals citing the same extenuating circumstances will be reviewed very closely. This review may include, with the permission of the student, consultation with the appropriate professionals involved to obtain more detailed information. In order for such an appeal to succeed, there must be convincing evidence that the circumstances that affected the student’s academic performance will be resolved within a reasonable timeline, or will be appropriately managed on an ongoing basis.

1.2 – Contexts for Appeals in the Faculty of Arts and Science

1.2.1 – Academic Integrity
The Centre for Academic Integrity defines academic integrity as “a commitment, even in the face of adversity, to five fundamental values: honesty, trust, fairness, respect, and responsibility. From these values flow principles of behaviour that enable academic communities to translate ideals into action”. This concept is more fully explored in Academic Regulation 1 in the Arts and Science Calendar, but the educational mission of Queen’s with its emphasis on “intellectual integrity,” “freedom of inquiry and exchange of ideas” and “equal dignity of all persons” depends on an adherence to academic integrity in all its actions (see the Senate Report on Principles and Priorities). In support of the concept of academic integrity, students have the responsibility to familiarize themselves with the rules and regulations of the Faculty. Additional information on academic integrity regulations, information for instructors and students and direction for appeals can be found in Academic Regulation 1. Appeals for issues of academic integrity are described in Appeal of Academic Decisions, Section 2.

1.2.2 – Procedural Fairness
Procedural fairness or natural justice holds that:
(i) Students must have access to any evidence and information relevant to the academic matter in question;
(ii) Students must have a meaningful opportunity to respond;
(iii) Students have a right to seek support or advice (normally from the Office of Dispute Resolution Mechanisms);
(iv) The decision maker must be free from apprehension of bias; and
(v) The decision maker must provide reasons for the decision based on evidence and the decision must be consistent with the Academic Regulations.

1.2.3 – The University Setting
The University environment is characterized by a spirit of free exchange and inquiry, and the appeal process should be carried out with this in mind. The appeal process should take into consideration the educational context and role of disciplinary proceedings.

Educational hearings are not legal proceedings and should not resemble a courtroom. The proceedings should not be adversarial or prosecutorial; instead they should be conducted in an environment of mutual respect.

1.2.4 – The Senate Policy on Student Appeals, Rights and Discipline
The Senate Policy on Student Appeals, Rights and Discipline (SARD) provides a procedural framework for proceedings in the Faculty of Arts and Science. The expectation is that disputed matters will continue to be resolved as closely as possible to the level at which they originate, and as quickly as is consonant with careful review. In accordance with the SARD policy, informality has characterized the administration of regulations in the Faculty of Arts and Science as far as possible. However, when a matter cannot be resolved through an informal review, the Faculty’s regulations provide students with the opportunity to formally appeal academic decisions.
The SARD policy also offers the following guidance on decision making:
“[All decision making bodies are intended] to ensure that students are treated fairly, but at the same time [it is recognized] that primary responsibility for making decisions about individual students rests with those who are closest to the students, who can fairly compare the individual students to other students in similar positions, and who have knowledge of the context in which the decision is made.

It is recognized that a decision-making body has the discretion to select among a number of reasonable alternatives. A decision that is fairly made shall only be reversed if the [decision maker] is satisfied that it was not a reasonable decision. “Reasonable” in this context means a decision that is grounded in logic. In other words, a reasonable decision is one that is supported by logical inferences from accepted premises and facts. If there is more than one conclusion that may be reasonably drawn from the same premises and facts, the choice of one conclusion over another does not make the decision unreasonable. [Decision-making bodies] shall not reverse a decision solely on the basis that it would not have made the same decision itself if it were exercising discretion. There is a considerable body of Canadian jurisprudence that helps define what constitutes review on the ground that a decision is not ‘reasonable’.”

Section 2: Appeals Related to Academic Integrity

2.1 – Levels of Appeal
There are two levels of appeal for matters related to academic integrity in the Faculty of Arts and Science:
(i) The Office of the Associate Dean (Studies); and
(ii) The Academic Integrity and Conduct Panel.

These levels of appeal deliver a decision addressing the academic issues raised in the case. Information on these appeals is available from the Arts and Science Faculty Office.

The Student Appeals, Rights, and Discipline (SARD) policy establishes a University-wide body, the University Student Appeal Board (USAB), which provides a final internal appeal process. USAB is intended to have a relatively narrow jurisdiction for dealing with appeals (see the Senate Policy on Student Appeals, Rights and Discipline).

2.2 – Appeal to the Office of the Associate Dean (Studies) of an Instructor’s Decision Related to Departures from Academic Integrity
Students may appeal the instructor’s finding or sanction or both to the Associate Dean (Studies) after receiving the official finding from the instructor.

2.2.1 – Submission of the Appeal
Appeals must be received in the Faculty Office within 21 calendar days of the initial decision by the instructor that is being appealed. In cases where a delay is needed on either side, there will be written notification of the delay and the reasons for the delay.

An appeal fee must also be submitted with the appeal documents.

Students must complete the Associate Dean (Studies) Appeal form, stating whether they are challenging the finding, the sanction or both aspects of the departure.

All documents used by the instructor and student in the initial decision must be included as part of the submission. Further the student should include a letter, responding to the decision by the instructor and outlining the specific concerns he or she has with the decision.

2.2.2 – Review of Appeal Documentation
In preparation for the review, the Associate Dean (Studies) may request additional relevant materials. If material in addition to that supplied by the student will be considered, the student must have at least 10 calendar days to review and respond to that material before a meeting is convened.

2.2.3 – Convening a Meeting
In most instances, the Associate Dean (Studies) will convene a meeting with the student (and his or her representative), the instructor (and his or her representative), and witnesses where appropriate, to conduct a thorough review of the evidence as it relates to the departure.

If, for any reason, the student does not wish to meet in person, he or she may indicate in writing that the written materials constitute sufficient material for the Associate Dean (Studies) to review.

Where it is decided that a meeting will occur, the Associate Dean (Studies) will notify the student and the instructor of the time and location of the meeting. The student will also be informed of the right to bring a representative and the names of those who will be present.

2.2.4 – Students’ Right to Representation
Students have the right to be accompanied by a Dispute Resolution advisor to meet with the Associate Dean (Studies). If a student seeks formal legal representation, he or she should notify the Associate Dean (Studies) in advance. It will be expected that the student will normally be able to speak for him or herself at the meeting.

2.2.5 – The Decision of the Associate Dean (Studies)
The Associate Dean (Studies) will make a decision according to the guidelines set out in Academic Regulation 1. The written decision must be framed within the language and context of the Academic Regulations and include:
(i) A statement of the issues under review;
(ii) A summary of the arguments and evidence presented;
(iii) The status of the finding and sanction (whether they remain as in the previous decision or are altered);
(iv) The reasons for the decision; and
(v) A statement of the right to proceed to the Academic Integrity and Conduct Panel.

The Associate Dean (Studies) will inform the student in writing of the decision, normally within 21 calendar days after the date at which the appeal is considered complete.

2.2.6 – Appealing the Decision of the Associate Dean (Studies)
If the student is not satisfied with the decision reached by the Associate Dean (Studies), the student can choose to proceed to the next stage of review by appealing to the Academic Integrity and Conduct Panel.
2.3 – Appeal to the Academic Integrity and Conduct Panel of the Decision of the Associate Dean (Studies) Related to Departures from Academic Integrity

Students may appeal the Associate Dean’s decision regarding the finding or the sanction or both to the Academic Integrity and Conduct Panel after receiving the decision of the Associate Dean (Studies).

2.3.1 – Submission of the Appeal

Appeals must be received in the Faculty Office within 21 calendar days of the decision by the Associate Dean (Studies) that is being appealed.

No appeal fee is required for the submission of an appeal of the decision by the Associate Dean (Studies).

Students must complete the Academic Integrity Appeal form, stating whether they are challenging the finding, the sanction or both aspects of the departure.

All documents used by the Associate Dean (Studies) and student in the previous decision must be included as part of the submission. The student may include a letter, responding to the decision of the Associate Dean (Studies) and outlining the specific concerns he or she has with the decision. No additional documentation should be added at this time. If, however, new material is included, the appeal will be redirected to the Associate Dean (Studies) for reconsideration. After assessing the new information, the Associate Dean (Studies) may decide to modify or overturn the previous decision or to redirect the appeal to the Academic Integrity and Conduct Panel for consideration.

2.3.2 – Review of Appeal Documentation

If material in addition to that supplied by the student will be considered, the student must have at least 10 calendar days to review and respond to that material.

2.3.3 – Convening a Meeting

In most instances, the Academic Integrity and Conduct Panel will convene a meeting with the student (and his or her representative), the instructor (and his or her representative), and witnesses where appropriate, to conduct a thorough review of the evidence as it relates to the departure.

If, for any reason, the student does not wish to meet in person, he or she may indicate in writing that the written materials constitute sufficient material for the Academic Integrity and Conduct Panel to review.

Where it is decided a meeting will occur, the Secretary to the Academic Integrity and Conduct Panel will notify the student and the instructor of the time and location of the meeting. The student will also be informed of the right to bring a representative and the names of those who will be present.

2.3.4 – Students’ Right to Representation

Students have the right to be accompanied by a Dispute Resolution advisor to meet with the Academic Integrity and Conduct Panel. If a student seeks formal legal representation, he or she should notify the Associate Dean (Studies) in advance. It will be expected that the student will normally be able to speak for him or herself at the meeting.

2.3.5 – The Decision of the Academic Integrity and Conduct Panel

The Academic Integrity and Conduct Panel will make a decision according to the guidelines set out in Academic Regulation 1. The written decision must be framed within the language and context of the Academic Regulations and include:

(i) A statement of the issues under review;
(ii) A summary of the arguments and evidence presented;
(iii) The status of the finding and sanction (whether they remain as in the previous decision or are altered);
(iv) The reasons for the decision;
(v) If necessary, direction on how the decision is to be implemented; and
(vi) A statement of the right of the student to proceed to USAB.

In a case where the Academic Integrity and Conduct Panel determines that withdrawal from the Faculty on grounds of a departure from academic integrity is the appropriate sanction, the Academic Integrity and Conduct Panel must direct the Associate Dean (Studies) to make such a recommendation to Senate.

The Chair of the Academic Integrity and Conduct Panel will inform the student in writing of the decision, normally within 21 calendar days after the date at which the appeal is considered complete.

2.3.6 – Appealing the Decision of the Academic Integrity and Conduct Panel

If the student is not satisfied with the decision reached by the Academic Integrity and Conduct Panel, the student can choose to proceed to next stage of review by appealing to the Senate University Student Appeal Board.

2.4 – Appeal to the University Student Appeal Board (USAB)

2.4.1 – Submission of the Appeal

Appeals to USAB must be received in writing within 2 weeks of having received a decision from the Board of Studies. Students should contact the Coordinator of Dispute Resolution Mechanisms to be informed of the appeal process.

2.4.1 – Matters that may be Appealed to USAB

If a student believes that there are reasons for an appeal on other than academic grounds, the student may set in motion the system for handling appeals as recorded in the Senate Policy on Student Appeals, Rights and Discipline, by appealing to the University Student Appeal Board.

Section 3: Appeals on Matters Other than Those Related to Academic Integrity

3.1 – Levels of Appeal

There are three levels of appeal within the Faculty of Arts and Science:

(i) The instructor;
(ii) The Office of the Associate Dean (Studies); and
(iii) The Board of Studies.

These levels of appeal deliver a decision addressing the academic issues raised in the case. Information on these appeals is available from the Arts and Science website, as well as the Arts and Science Faculty Office.


3.1.1 – Appeals to the Instructor

3.1.1.1 – Submission of the Appeal
If an academic decision is questioned by a student, the student will first take up the matter informally with the instructor who made the decision, in order to ensure that the instructor is aware of all the facts which the student believes are pertinent to the decision. This should be done as early as possible and must be done within 21 calendar days of communication of the decision to the student.

3.1.1.2 – The Decision of the Instructor
The instructor will normally give a reconsidered decision within 21 calendar days of receiving the additional information that the student has presented.

3.1.1.3 – Appealing the Decision of the Instructor
If a student is not satisfied with the decision of an instructor or a Department, an appeal may be made to the Office of the Associate Dean (Studies).

3.1.1.4 – Matters that may be Appealed to the Instructor
The following matters may be appealed to the instructor:
(i) Instructors’ decisions on grading of term work (see Appeal of Academic Decisions, section 3);
(ii) Instructors’ decisions on grading of final examinations (see Appeal of Academic Decisions, section 3); and
(iii) To request to write the final examination for a distance course at an earlier time than formally scheduled (see Academic Regulation 8)

3.1.2 – Appeals to the Office of the Associate Dean (Studies)

3.1.2.1 – Submission of the Appeal
Appeals must be received in the Faculty Office within 21 calendar days of the initial decision that is being appealed. An appeal fee must also be submitted with the appeal documents. Students must complete the Associate Dean (Studies) Appeal Form and include a letter outlining the nature of their concerns. The student must clearly explain the extenuating circumstances and their impact upon the student. The appropriate supporting documentation must be appended to the appeal.

3.1.2.2 – Review of Appeal Documentation
If material in addition to that supplied by the student will be considered, the student must have at least 10 calendar days to review and respond to that material.
In cases where facts are in dispute or there are issues of credibility, the student or the Associate Dean (Studies) may request a meeting in addition to the written appeal. Students have the right to be accompanied by a Dispute Resolution Advisor to meet with the Associate Dean (Studies). If a student seeks formal legal representation, he or she should notify the Associate Dean (Studies) in advance.

3.1.2.3 – The Decision of the Associate Dean (Studies)
The Associate Dean (Studies) will inform the student in writing of the decision, normally within 21 calendar days after the date at which the appeal is considered complete.

3.1.2.4 – Appealing the Decision of the Associate Dean (Studies)
If the student is not satisfied with the decision reached by the Associate Dean (Studies), the student can choose to proceed to next stage of review by appealing to the Board of Studies.

3.1.2.5 – Matters that may be Appealed to the Office of the Associate Dean (Studies)
The Faculty of Arts and Science permits students to appeal the following matters to the Office of the Associate Dean (Studies):
(i) To add a course after the last official date for adding classes (see Academic Calendar Dates);
(ii) To drop a course after the last official date for dropping classes (see Academic Calendar Dates);
(iii) To request Aegrotat standing in a class (see Academic Regulation 10);
(iv) To request Credit (CR) standing in a class (see Academic Regulation 10);
(v) To request an extension of the deadline to complete a deferred exam in a class (see Academic Regulation 10);
(vi) To request an extension of the deadline to submit incomplete work in a class (see Academic Regulation 10);
(vii) Instructors’ decisions on grading term work (see Academic Regulation 11);
(viii) Instructors’ decisions on grading final examinations (see Academic Regulation 11);
(ix) To request to write the final examination for a distance course at an earlier time than formally scheduled (see Academic Regulation 8);
(x) To request to complete any part of the third or fourth year of an honours degree program at another university (Fall-Winter Session) (see Academic Regulation 14); and
(xi) A requirement to withdraw (see Academic Regulation 13).

3.1.3 – Appeals to the Board of Studies

3.1.3.1 – Submission of the Appeal
Appeals must be received in the Faculty Office within 21 calendar days after the decision of the Associate Dean (Studies). There is no fee for the appeal to the Board of Studies. Students must complete the Board of Studies Appeal Form and include a letter that addresses the written statements made by the Associate Dean (Studies) in denying the appeal.

3.1.3.2 – Documentation to be Considered by the Board of Studies
All letters and documentation considered by the Associate Dean (Studies) in reaching a decision will be forwarded to the Board of Studies.
In cases where facts are in dispute or there are issues of credibility, the student or the Board of Studies may request an oral presentation, in addition to the written appeal. Students have the right to be accompanied by a Dispute Resolution Advisor to meet with the Board of Studies. If a student seeks formal legal representation, he or she should notify the Board of Studies in advance.

3.1.3.3 – Review of Documentation
Students must have at least 10 calendar days to review and respond to the materials under consideration by the Board of Studies.
In cases where facts are in dispute or there are issues of credibility, the student or the Board of Studies may request an oral presentation, in addition to the written appeal. Students have the right to be accompanied by a Dispute Resolution Advisor to meet with the Board of Studies. If a student seeks formal legal representation, he or she should notify the Board of Studies in advance.
3.1.3.4 – Decision of the Board of Studies
In general, with the exceptions of appeals related to final examinations, final grades, or non-academic discipline where other criteria will apply, appeals to the Board of Studies are only granted where there are significantly extenuating circumstances, beyond the student’s control, that would merit the waiving of a particular Faculty regulation or decision.

The Board of Studies will inform the student in writing of the decision, normally within 21 calendar days after the date of the meeting of the Board of Studies to decide the appeal.

The decisions of the Board of Studies on academic matters are final (see the Senate Policy on Student Appeals, Rights and Discipline).

3.1.3.5 – Appealing the Decision of the Board of Studies
If the student is not satisfied with the process undertaken by the Associate Dean (Studies) or the Board of Studies, the student can choose to proceed to next stage of review by appealing to the University Student Appeal Board.

3.1.3.6 – Matters that may be Appealed to the Board of Studies
The Faculty of Arts and Science permits students to appeal the following matters to the Board of Studies:

(i) To add a course after the last official date for adding classes (see Academic Calendar Dates);
(ii) To drop a course after the last official date for dropping classes (see Academic Calendar Dates);
(iii) To request Aegrotat standing in a course (see Academic Regulation 10);
(iv) To request Credit (CR) standing in a course (see Academic Regulation 10);
(v) To request an extension of the deadline to complete a deferred exam in a class (see Academic Regulation 10);
(vi) To request an extension of the deadline to submit incomplete work in a class (see Academic Regulation 10);
(vii) Instructors’ decisions on grading term work (see Academic Regulation 11);
(viii) Instructors’ decisions on grading final examinations (see Academic Regulation 11);
(ix) To request to write the final examination for a distance course at an earlier time than formally scheduled (see Academic Regulation 8);
(x) To request to complete any part of the third or fourth year of an honours degree program at another university (Fall-Winter Session) (see Academic Regulation 14); and
(xi) A requirement to withdraw (see Academic Regulation 13).

3.1.4 – Appeals to the University Student Appeal Board (USAB)  
3.1.4.1 – Submission of the Appeal
Appeals to USAB must be received in writing within 2 weeks of having received a decision from the Board of Studies. Students should contact the Coordinator of Dispute Resolution Mechanisms to be informed of the appeal process.

3.1.4.2 – Matters that may be Appealed to USAB
If a student believes that there are reasons for an appeal on other than academic grounds, the student may set in motion the system for handling appeals as recorded in the Senate Policy on Student Appeals, Rights and Discipline, by appealing to the University Student Appeal Board.

3.2 – Limitations on Appeals
3.2.1 – Who may Appeal
Only students registered in the Faculty of Arts and Science are eligible to initiate an appeal using the Faculty’s appeal procedure (see the Senate Policy on Faculty Jurisdiction With Respect To Student Appeals of Academic Decisions).

3.2.2 – Timeline of Appeals
3.2.2.1 – Explanation of 21-Day Appeal Timeline
Any appeal of an academic matter must be made within 21 calendar days of the decision under review. This timeline is in place for several reasons. First, the 21-day timeline offers students time to seek academic counselling, to write up and submit an appeal, and to collect the supporting documents necessary to the appeal. Second, the appeal timeline is in place to ensure that decision making takes place in a timely manner, allowing students to continue in their academic programs without ongoing concern for unresolved matters.

Third, the appeal timeline is in place to ensure fair decision making. The interested parties and the original contexts within which the matter originated may not be available after this time period. Over time, instructors, class content, the norms of evaluating class materials, and Degree Plan structures may and generally do change. Furthermore, the supporting documents necessary to any appeal may no longer be available or their credibility may more easily come into question. Therefore, the inability to reconstruct accurately the circumstances leading to the original matter under appeal can compromise the decision-making process.

The principle of a limitation on timelines for review of academic matters conforms to precedents throughout the University. Most notably, Senate regulations on examinations require that final examinations be retained for up to one year from the date of writing. This policy assumes that students should be allowed sufficient time to query examination marks but also that the timeline for reconsideration is limited. Within the Faculty of Arts and Science for instance, transcript notations such as IN (Incomplete) have a finite standing: if insufficient action is taken by the student to complete the class, the standing IN is removed at the end of the term following that in which the class was offered, and is replaced with the letter grade F.

3.2.2.2 – Appealing the 21-Day Appeal Timeline
Exceptions to this regulation can only be granted in cases where extenuating circumstances beyond a student’s control render the student unable to appeal within the specified timeline. The student must be able to show that the extenuating circumstances were ongoing. The student must also be able to demonstrate that these circumstances prevented the student from acting between the time the original decision was received and the time at which the appeal was eventually initiated. Appeals of the regulation governing the timeline for appeals must be submitted in writing. An appeal of this type should include a presentation of the specific reasons for the delay and must include documents that support the reasons for this delay. Note that students are not able to revisit the same time period in submitting subsequent appeals. For example if a student has appealed to drop one or more classes without academic penalty in the Fall Term he or she is not able to make a subsequent different appeal in relation to that same time period.

3.2.2.3 – Appealing after Graduation
No appeal may be submitted by a student after 21 days following graduation.
3.3 – Matters that May be Appealed

3.3.1 – To Add a Class After the Last Official Date for Adding Classes
Students must be registered in a class to be eligible to attend or otherwise participate in lectures, laboratories, tutorials, tests, and examinations associated with the class (see Academic Regulation 6).

Appeals to add a class late must clearly demonstrate the significant extenuating circumstances, beyond the student’s control, which prevented him or her from making the addition by the published deadline. A medical certificate or other documentation that outlines how the personal extenuating circumstances hindered the student’s ability to add the class during the published deadlines should be provided with the letter of appeal. The student must also have support from the Undergraduate Chair of the relevant department and from the class instructor.

An appeal to add a class must be submitted to the Arts and Science Faculty Office within 21 calendar days of the first day in which the class is offered.

3.3.2 – To Drop a Class After the Last Official Date for Dropping Classes
Appeals to drop a class late must clearly demonstrate the significant extenuating circumstances, beyond the student’s control, which prevented him or her from dropping the class by the published deadline. A medical certificate or other documentation that outlines how the personal extenuating circumstances hindered the student’s ability to drop the class during the published deadlines should be provided with the letter of appeal.

Note that classes in which a student has received a passing grade may not be dropped. Instead, students with extenuating circumstances should consider an appeal for credit (CR) standing (see Academic Regulation 10).

An appeal to drop a class must be submitted within 21 calendar days of the end of the examination period in which the class was offered.

3.3.3 – To Request Aegrotat Standing in a Course
Aegrotat standing is reserved for a student who, because of illness or other extenuating circumstances beyond their control, is unable to complete all the work of the class. At least 60 per cent of the work to be evaluated in the class (assignments, midterms, laboratories, final examination, as specified in the course outline) must be completed. A medical certificate or other documentation that outlines how the personal extenuating circumstances affected the student’s academic performance should be provided with the letter of appeal. A letter of support from the instructor should also be included. If this request is granted, any further request to submit incomplete work after the published deadline. A medical certificate or other documentation explaining how the personal extenuating circumstances affected the student’s ability to drop the class during the published deadlines should be provided with the letter of appeal.

An appeal for aegrotat standing must be submitted no later than 21 calendar days after the end of the examination period in which the class was offered.

A student may be granted aegrotat or credit standing for a maximum of 36.0 units over the course of an entire degree program (see Academic Regulation 10).

3.3.4 – To Request Credit (CR) Standing in a Course
Credit standing is reserved for a student who has completed and passed all of the work of the class, including the final examination, but due to illness or other extenuating circumstances beyond his or her control, earned a substantially lower grade than might have been expected. Normally CR standing is only awarded for a grade of C or lower. A medical certificate or other documentation outlining how the personal extenuating circumstances affected the student’s academic performance should be provided with the letter of appeal. A letter of support from the instructor should also be included (see Academic Regulation 10).

An appeal for credit standing must be submitted no later than 21 calendar days after the end of the examination period in which the class was offered.

A student may be granted aegrotat or credit standing for a maximum of 36.0 units over the course of an entire degree program (see Academic Regulation 10).

3.3.5 – To Request an Extension of the Deadline to Complete a Deferred Examination in a Class
A student affected by extenuating circumstances may ask the course instructor that the final examination be delayed for up to one full term following the original examination date (see Academic Regulation 10). If the first request is granted, any further request to write a final examination after that term has elapsed must be made through a formal appeal to the Associate Dean (Studies). A medical certificate or other documentation outlining how the personal extenuating circumstances prevented the student from writing the examination should be provided with the letter of appeal. A note from the instructor agreeing to the extension and stating a revised date for completion of the final examination should also be included.

An appeal for the extension of the deadline to complete a deferred examination beyond one term must be made within the term following of the date of the final examination.

3.3.6 – To Request an Extension of the Deadline to SubmitIncomplete Work in a Class
As outlined in Academic Regulation 10, a student affected by extenuating circumstances may ask the instructor for incomplete standing (IN) for up to one full term after the completion of a class. If the first request is granted, any further request to submit incomplete work after the term has elapsed must be made through a formal appeal to the Office of the Associate Dean (Studies). A medical certificate or other documentation explaining how the personal extenuating circumstances prevented the student from completing the outstanding work should be provided with the letter of appeal. A note from the instructor agreeing to the extension and providing a revised final date for completion of the course work in question should also be included.

An appeal for the extension of the deadline to submit incomplete work must be made before the end of the term following that in which the class was offered.

3.3.7 – To Request a Review of Instructors’ Decisions on Grading of Term Work
A student may request a review of any grade assigned in a course subject to the marking scheme set out by the course instructor(s). It is the responsibility of the student to preserve all exercises, papers, reports and other graded material for the course and to submit these materials. In any formal appeal of term work, the student must accept the responsibility for ensuring that the work presented for reassessment is in fact the original term work submitted for evaluation (see Academic Regulation 11).

As a first step, the student should request an informal review with the instructor concerned, and instructors are strongly encouraged to consent. If the request for an informal review is denied, the student may ask for the assistance of the Office of the Associate Dean (Studies) in order to facilitate an informal review. This request should be made within 21 calendar days of...
the grade being received. Usually the instructor will provide a reconsidered grade within 21 calendar days of the receipt of the request.

The reconsideration of the work in question will be undertaken by two reviewers appointed by the Office of the Associate Dean (Studies) or delegate (normally the Head of the relevant academic unit). One of the two reviewers will be the original instructor, unless the student can demonstrate bias on the part of the original instructor. The review will involve a rereading of the work in question.

An appeal on grading of term work must be submitted within 21 calendar days after the student has received the mark from the instructor.

3.3.8 – To Request a Review of Instructors’ Decisions on Grading of Final Examinations
A student may request a review of his or her final examination papers. For this purpose, final examination paper means the final examination question paper in a course and the graded answer paper written by the student which, by Senate policy, must be retained for a period of 12 months (see Academic Regulation 11).

As a first step, the student should request an informal review with the instructor concerned, and instructors are strongly encouraged to consent. This request must be made within 21 calendar days of receipt of the final mark. The instructor will normally provide a reconsidered grade within a further 21 calendar days of receipt of the request and any further information being submitted by the student. However, access to the final examination paper may not be granted before the final marks are released.

If the request for an informal review is denied or if the student is not satisfied with the instructor’s decision that arises from the informal review, the student may appeal the decision, in writing, to the Office of the Associate Dean (Studies). The appeal must include copies of all relevant documents, including the examination in question and the answer paper written by the student.

The appeal must be submitted to the Office of the Associate Dean (Studies) within 21 calendar days of receiving the instructor’s decision.

3.3.9 – To Request to Complete Any Part of the Third or Fourth Year of an Honours Degree Program at Another University (Fall/Winter Session)
Normally the last two years of the honours degree are taken in the Faculty of Arts and Science at Queen’s. Students in good academic standing (i.e. on a degree program with a minimum weighted cumulative average of 60 per cent, fewer than 6.0 failed credit attempts, and not on academic probation) may spend the third or fourth year of an honours program at another university with the written permission of the department(s) of concentration and the Associate Dean (Studies). The student’s appeal should directly address how courses taken at another university will fulfill the concentration requirements. If approved, these students must obtain a Letter of Permission from the Arts and Science Faculty Office prior to enrolling in courses at another university (see Academic Regulation 14). Students may not appeal or apply for a Letter of Permission retroactively.

Students should be aware that the appeal process can take up to 21 calendar days and the application process for the Letter of Permission can take two to three weeks. In addition, should the appeal be approved and the Letter of Permission granted, students must then meet the host university’s admission dates.

3.3.10 – To Request to Waive a Requirement to Withdraw for One Year
Appeals requesting that a requirement to withdraw be waived must clearly demonstrate how significantly extenuating circumstances, beyond the student’s control, affected his or her academic performance. In cases where the extenuating circumstances have been temporary, the student should indicate and document how the circumstances have been overcome and why the student is confident that they will not continue to be a factor in academic performance. In cases where the extenuating circumstances are ongoing rather than temporary, the student should also indicate and document how these personal challenges will be managed if the requirement to withdraw is waived. A medical certificate or other official documentation that demonstrates the impact of the extenuating circumstances should be provided with the letter of appeal.

If the requirement to withdraw is waived, the Associate Dean (Studies) may impose conditions governing the student’s subsequent registration. In these cases, at the discretion of the Associate Dean (Studies), the student’s registration status may be changed from full-time to part-time, or the student may be required to seek the permission of the Associate Dean (Studies) in order to register.

An appeal of the requirement to withdraw must be submitted within 21 calendar days of the receipt of the letter from the Associate Dean (Studies) informing the student of the decision that the student must withdraw.

In all cases a notation indicating the requirement to withdraw will remain on the transcript, in accordance with the Senate’s “Policy on Transcript Terminology for Students Withdrawing from Queen’s University.” If the requirement to withdraw is waived, then a notation to that effect shall be added to the transcript.

3.3.11 – To Request to Waive a Requirement to Withdraw for a Minimum of Three Years
3.3.11.1 – Appeals Submitted Within 21 Days of Notification of RTW3
Standing
Appeals requesting that a requirement to withdraw be waived must clearly demonstrate how significantly extenuating circumstances, beyond the student’s control, affected his or her academic performance. In cases where the extenuating circumstances have been temporary, the student should indicate and document how the circumstances have been overcome and why the student is confident that they will not continue to be a factor in academic performance. In cases where the extenuating circumstances are ongoing rather than temporary, the student should also indicate and document how these personal challenges will be managed if the requirement to withdraw is waived. A medical certificate or other official documentation that demonstrates the impact of the extenuating circumstances should be provided with the letter of appeal. If a lesser sanction is imposed the requirement to withdraw notation will be removed from the transcript.

If a student is within 12.0 units of completion of a degree, that student’s case will be reviewed by the Associate Dean (Studies), who may impose a lesser sanction. In exceptional circumstances, academic probation may be imposed by the Associate Dean (Studies) as an alternative to requiring a student to withdraw. The special conditions which the student must
meet in such instances will be determined by the Associate Dean (Studies) on an individual basis (see Academic Regulation 13). If a lesser sanction is imposed the requirement to withdraw notation will be removed from the transcript.

If the requirement to withdraw is waived, the Associate Dean (Studies) may impose conditions governing the student’s subsequent registration. In these cases, at the discretion of the Associate Dean (Studies), the student’s registration status may be changed from full-time to part-time, or the student may be required to seek the permission of the Associate Dean (Studies) in order to register.

An appeal of the requirement to withdraw must be submitted within 21 calendar days of the receipt of the letter from the Associate Dean (Studies) informing the student of the decision that the student must withdraw. Further appeals to the Office of the Associate Dean (Studies) for a requirement to withdraw for a minimum of three years will not be entertained until the full three years have elapsed.

In all cases a notation indicating the requirement to withdraw will remain on the transcript, in accordance with the Senate’s “Policy on Transcript Terminology for Students Withdrawing from Queen’s University.” If the requirement to withdraw is waived, then a notation to that effect shall be added to the transcript.

3.3.11.2 – Appeals Submitted After the Three Year Withdrawal Period

After the minimum withdrawal period of three years, a student who wishes to return to the Faculty of Arts and Science must appeal to the Associate Dean (Studies). The appeal should contain a completed Return to Studies Form, an outline of what the student has done during the period of withdrawal and a viable academic plan for the completion of their degree program. The appeal should provide evidence of their capability to succeed in the proposed academic plan.

If the requirement to withdraw is waived, the Associate Dean (Studies) may impose conditions governing the student’s subsequent registration. In these cases, at the discretion of the Associate Dean (Studies), the student’s registration status may be changed from full-time to part-time, or the student may be required to seek the permission of the Associate Dean (Studies) in order to register.

An appeal of the requirement to withdraw may be submitted at any time after the minimum withdrawal period of three years has elapsed.
Dual and Second Degrees

Notes
Associate University Registrar (Undergraduate Admission)  S. Pinchin
Office  Gordon Hall
Telephone  613-533-2218
Fax  613-533-6810
E-Mail Address  admission@queensu.ca
Web Address  www.queensu.ca/admission

The following regulations represent the current policy and procedures for registering in Dual or Second Degree Programs within the Faculty of Arts and Science.

The following is a summary of the Dual and Second Degree Regulations:

1:  Dual Degree Program
2:  Second Degree Program
3:  General Degree Upgrade

1 – Dual Degree Program

The Dual Degree Program allows students to complete degrees from two different Faculties or Schools concurrently at Queen’s University, subject to the following regulations. These regulations are designed in conformity with the Senate’s Policy on Second Degrees.

The program combines a primary or full-time degree program in the Faculty of Applied Science, Schools of Business or School of Nursing, with a secondary or part-time degree program in the Faculty of Arts and Science. The Dual Degree Program normally takes five or more years to complete, and students are strongly recommended to familiarize themselves with the regulations and to seek regular academic advising.

The Faculty has limited capacity to accommodate Dual Degree students, and only accepts candidates into dual degree combinations that are academically viable. To ensure the academic integrity of the Dual Degree Program the Faculty Office, in consultation with the Department(s) concerned, approves combinations to ensure that there is minimal overlap in course content. Current information on departmental capacity and academically viable dual degree combinations is available on the Arts and Science website.

Admission requirements are available from Undergraduate Admission. Enrolment limitations or lack of appropriate prerequisites may result in the denial of an application.

1.1 – Admission Requirements

To be eligible, students must meet all of the following criteria:

(i) have the equivalent of Arts and Science full-time standing in their home Faculty or School;
(ii) have completed the equivalent of at least 8 one-term courses (where a one-term course is equivalent to a typical 3.0-unit course in Arts and Science) in their home Faculty or School;
(iii) have been in good academic standing in their home Faculty or School throughout their Undergraduate Career at Queen’s;

NOTE: “Good academic standing” is defined as having no academic sanction imposed in the student’s home Faculty or School. Such sanctions in the home Faculty or School may include “Special Programs” noted on the student’s record that result from previous poor performance, academic probation, or a requirement to withdraw.

(iv) have a minimum Cumulative GPA of 2.90;
(v) apply to an Arts and Science Degree Program in a substantially different Plan from that in their primary Degree Program; and
(vi) satisfy departmental criteria for admission to the Plan.

Departmental approval for the Plan requested in the secondary program, and Arts and Science approval of the combined programs are required. Enrolment is limited in some degree Programs and Plans. The minimum GPA required for admission to some Degree Programs and Plans may vary from year to year, depending on the size and strength of the applicant pool.

1.2 – Program Requirements

Each student’s Dual Degree Program consists of three types of units: shared, primary and secondary. Furthermore, Dual Degree students must meet the unit requirements of the Arts and Science Plan in which they are registered.

While the number of shared units that may count towards both Degree Programs is fixed at a maximum of 60.0, the number of additional primary and secondary units necessary will vary according to the degree requirements in each Faculty or School and Degree Program and Plan.

1.2.1 – Shared Units

Students may count a maximum of 60.0 shared units towards both Degree Programs. Shared units include those normally acceptable for credit in the Faculty of Arts and Science. (See Degree Programs in Arts and Science for restrictions on classes that may transfer to an Arts and Science degree.) Shared units may count towards the Arts and Science Plan.

1.2.2 – Primary Units

In addition to the shared units, students must complete further primary units to reach the minimum overall total required for the primary Degree Program. All class and degree requirements for the primary program must be completed according to the regulations of that Faculty or School. (See the regulations of the relevant Faculty or School for details.)

1.2.3 – Secondary Units

In addition to the shared units, students must complete further secondary units to reach the minimum overall total required for the secondary, Arts and Science, Degree Program. All class and degree requirements for the secondary program must be completed according to the regulations of the Faculty of Arts and Science. (See especially Academic Regulation 16 for degree requirements.) Secondary units may count towards the Arts and Science Plan.

All secondary units must be completed at the Faculty of Arts and Science at Queen’s University. They may not be transferred from another post-secondary institution or from the primary Faculty or School at Queen’s. Dual Degree students must register all secondary units with the Faculty of Arts and Science and pay the appropriate fees.

The number of secondary units required depends on the total minimum number of units required for the completion of the degree.
1.2.3.1 – Secondary Units for General degrees
The total number of Arts and Science units required for a B.A.(Gen.), B.Sc.(Gen.), B.Cmp.(Gen.), B.F.A.(Gen.) or B.P.H.E.(Gen.) degree is 90.0, comprising up to 60.0 shared units and a minimum of 30.0 secondary units completed in the Faculty of Arts and Science at Queen’s.

1.2.3.2 – Secondary Units for the B.A.(Hons.) degree
The total number of Arts and Science units required for a B.A.(Hons.) degree is 114.0, comprising up to 60.0 shared units and a minimum of 54.0 secondary units completed in the Faculty of Arts and Science at Queen’s.

1.2.3.3 – Secondary Units for the B.Sc.(Hons.), B.Cmp.(Hons.), B.F.A.(Hons.), B.P.H.E.(Hons.) degrees
The total number of Arts and Science units required for a B.Sc.(Hons.), B.Cmp.(Hons.), B.F.A.(Hons.) or B.P.H.E.(Hons.) degree is 120.0, comprising up to 60.0 shared units and a minimum of 60.0 secondary units completed in the Faculty of Arts and Science at Queen’s.

1.2.3.4 – Secondary Units for the B.Mus. degree
The total number of Arts and Science units required for a B.Mus. degree is 129.0, comprising up to 60.0 shared units and a minimum of 69.0 secondary units completed in the Faculty of Arts and Science at Queen’s.

1.2.4 – Plan Units
The units required for the Arts and Science Plan may be shared units, or secondary units, or a combination of both.

1.3 – Credit Registration
Once a student is enrolled in a Dual Degree Program, class units must be registered under the appropriate Degree Program and the appropriate fees paid for these classes. During the class selection and add/drop periods, students should use the Student Centre to register for classes under the appropriate Degree Program.

Specifically, all shared units and primary units must be registered under the primary program, while all secondary units necessary to complete the Arts and Science degree must be registered under the Arts and Science program.

If classes for the secondary unit component of the Dual Degree are not registered in the Faculty of Arts and Science they will not be allowed to contribute to that degree requirement. The student will need to complete further classes registered under the Arts and Science program in order to fulfill the secondary unit requirement.

1.4 – Program Restrictions
In addition to restrictions based on the Faculty’s limited capacity to accommodate Dual Degree students, the following academic restrictions apply.

Students registered in the Faculty of Arts and Science are not permitted to register in a degree combination consisting of two programs within the Faculty, including direct-entry programs. Arts and Science students wishing to complete two degrees should consult the Second Degree Program section of this chapter.

Students may be refused admission to a particular Dual Degree Program combination if it is not academically viable, that is, if there is significant overlap in the two programs. If at least half of the required units in the Arts and Science program may be used in the primary Degree Program, the overlap is considered significant and the combination is not approved. For example, a B.Sc.(Gen.) Degree Program requires 90.0 units, of which 48.0 are Plan units. If 24.0 or more of the 48.0 Plan units are required (or may be used) in the primary Degree Program, there is too much overlap for the Dual Degree combination to be approved.

Because the Dual Degree Program consists of two Degree Programs taken concurrently, students in the concurrent Education program may not apply for an additional Degree Program.

1.5 – Application Process
Students must apply to the Dual Degree Program through Undergraduate Admission.

1.6 – Change of Dual Degree Combination
Students are admitted to specific Dual Degree Program combinations. To change a secondary program or Plan a student must submit an application to Undergraduate Admission.

Dual Degree students who complete the secondary (Arts and Science) degree prior to completing the primary degree, and subsequently wish to complete another degree in Arts and Science must submit an application through Undergraduate Admission for another Dual Degree combination.

Dual Degree students who complete both degrees and subsequently wish to complete another degree in Arts and Science are then considered to be Second Degree students, and should follow the regulations described under Second Degree Program in this chapter.

1.7 – Withdrawal from a Dual Degree Program
Students admitted to a Dual Degree Program who no longer wish to complete the program may inform Undergraduate Admission in writing of their intent to withdraw.

Dual Degree students who are required to withdraw from their primary Degree Program and who wish to continue studies in the Faculty of Arts and Science will need to apply for admission to Arts and Science through Undergraduate Admission and will be subject to the same Plan limitations as all transfer students (see Admission Regulation 5).

2 – Second Degree Program
The Second Degree Program allows the holder of an undergraduate degree from Queen’s or from another university to complete a second undergraduate degree in the Faculty of Arts and Science, subject to the following regulations. These regulations are designed in conformity with Queen’s University Senate’s Policy on Second Degrees.

The Faculty has limited capacity to accommodate Second Degree students, and only accepts candidates into second degree combinations that are academically viable. To ensure the academic integrity of the Second Degree Program the Faculty Office, in consultation with the Department(s) concerned, approves combinations to ensure that there is minimal overlap in course content. Current information on departmental capacity and academically viable Second Degree combinations is available on the Arts and Science website.

Admission requirements are available from Undergraduate Admission. Enrolment limitations or lack of appropriate prerequisites may result in the denial of an application.
2.1 – Admission Requirements
Students are required to have completed all requirements for their first Degree Program before being admitted to the Second Degree Program. Departmental approval for the Plan requested and Faculty approval for the Second Degree combination are required. Enrollment is limited in some degree Programs and Plans. The minimum GPA required for admission to some Degree Programs and Plans may vary from year to year, depending on the size and strength of the applicant pool.

2.2 – Program Requirements
Students must complete all course and degree requirements for the Second Degree Program according to the Academic Regulations of the Faculty of Arts and Science. (See Academic Regulation 16 for degree requirements.)

2.2.1 – First degree from Queen’s University
Second Degree students whose first degree is from Queen’s may use up to a maximum of 60.0 transferable units from their first Degree Program toward their Second Degree Program. When there are 60.0 transferable units from the first degree, a B.A.(Gen.), B.Cmp.(Gen.) or B.Sc.(Gen.) degree requires a minimum of 30.0 additional units; a B.A.(Hons.) degree requires a minimum of 54.0 additional units; a B.Cmp.(Hons.) or B.Sc.(Hons.) degree requires a minimum of 60.0 additional units.

2.2.2 – First degree from another post-secondary institution
Second Degree students whose first degree is from another post-secondary institution may use up to a maximum of 42.0 transferable units from the first degree toward a B.A.(Gen.), B.Cmp.(Gen.) or B.Sc.(Gen.) Degree Program, and up to a maximum of 54.0 transferable units from the first degree toward a B.A.(Hons.), B.Cmp.(Hons.) or B.Sc.(Hons.) Degree Program. The additional units required will vary depending on the total number of units required for the second degree.

The additional courses for the second degree must all be completed at Queen’s and registered under the Arts and Science Degree Program, regardless of whether the first degree is from Queen’s or from another post-secondary institution.

2.3 – Degree Combinations
A second degree can only be completed in significantly different Plan from the student’s first degree, where a significantly different Plan is defined as one in which fewer than half of the Plan units are required (or may be used) in the first Degree Program.

2.3.1 – A three-year General degree after a four-year Honours degree
With the completion of a minimum of 30.0 additional Queen’s units in a significantly different Plan from their Honours degree, students may obtain a General degree together with, after receiving, or after qualifying for a four-year Honours degree. The two Degree Programs must be different.

2.3.2 – Two three-year General degrees
With the completion of a minimum of 30.0 additional Queen’s units in a significantly different Plan from their first degree, students may obtain a second General degree together with, after receiving, or after qualifying for a three-year General degree. The two Degree Programs must be different.

2.3.3 – Two four-year Honours degrees
With the completion of a minimum of 54.0 additional Queen’s units in a significantly different Plan from their first degree, students may obtain a B.A.(Hons.) degree together with, after receiving, or after qualifying for a first four-year Honours degree. The first Degree Program may also be a B.A.(Hons.).

With the completion of a minimum of 60.0 additional Queen’s units in a significantly different Plan from their first degree, students may obtain a B.Sc.(Hons.) or B.Cmp.(Hons.) degree together with, after receiving, or after qualifying for a first four-year Honours degree. The two Degree Programs may be the same.

2.4 – Program Restrictions
In addition to restrictions based on the Faculty’s limited capacity to accommodate Second Degree students, the following academic restrictions apply.

2.4.1 – General restrictions
Students are not eligible to obtain a second three-year General degree of the same program type. That is, a student will not be permitted to obtain two B.A.(Gen.) degrees, two B.Sc.(Gen.) or two B.Cmp.(Gen.) degrees.

Students may not obtain a three-year General degree together with, after receiving, or after qualifying for a four-year Honours degree of the same program type. For example, students may not obtain a B.A.(Gen.) degree after a B.A.(Hons.) degree, a B.Cmp. (Gen.) degree after a B.Cmp.(Hons.) degree, or a B.Sc.(Gen.) degree after a B.Sc.(Hons.) degree.

In order to be academically viable, the second degree may only be obtained with a Plan in a substantially new discipline. Students may be refused access to a particular Second Degree Program combination if it is determined that there is significant overlap in the two programs. If at least half of the required units in the Second Degree Program may be used in the first Degree Program, the overlap is considered significant and the combination is not approved. For example, a B.Sc.(Gen.) Degree Program requires 90.0 units, of which 48.0 are Plan units. If 24.0 or more of the 48.0 Plan units are required (or may be used) in the first Degree Program, there is too much overlap for the Second Degree combination to be approved. A list of allowed and disallowed program combinations is available from the Arts and Science website.

2.4.2 – Both degrees from the Faculty of Arts and Science at Queen’s
Students may complete courses towards two Degree Programs in Arts and Science simultaneously, subject to the requirements detailed above in 2.2.1. Such students normally register in only one Degree Program while taking courses for both programs. (This does not apply to students in Concurrent or Dual Degree Programs, who are registered in degree programs in two faculties simultaneously.) In most cases students first complete the requirements and receive the degree for the program in which they are registered, before applying for the Second Degree Program to complete the requirements for the second degree.

2.4.3 – First degree from another post-secondary institution
A majority of the units required for the Second Degree Plan must be completed through Queen’s as outlined in Academic Regulation 16.

If students whose first degree is from another post-secondary institution take classes towards their Queen’s degree that have similar content to classes taken in the first degree, the number of unspecified transfer credits granted will be reduced accordingly.
2.5 – Application Process
Students who wish to complete a Second Degree Program from Queen’s must apply for admission through the Ontario Universities’ Application Centre.

Units from the first degree will be assessed for credit towards the second degree by Undergraduate Admission.

2.6 – Change of Second Degree Program
Once admitted to a Second Degree Program, students who wish to change to another Arts and Science Program or Plan need to complete a new application to a Second Degree Program through Undergraduate Admission.

3 – General Degree Upgrade
Students who have received a three-year General degree in the Faculty of Arts and Science at Queen’s University may upgrade to a four-year Queen’s Arts and Science Honours degree, subject to the following regulations.

3.1 – Admission Requirements
Students must have completed a B.A.(Gen.), B.Sc.(Gen.) or B.Cmp.(Gen.) in the Faculty of Arts and Science at Queen’s University. No application for admission is required for students who wish to complete an Honours degree.

3.2 – Academic Requirements
Students must have a minimum cumulative GPA of 1.90 in order to be eligible for an Honours degree. A student shall be deemed ineligible to proceed to an Honours degree if he or she has attempted 132.0 or more units at the time of assessment and has a cumulative GPA of less than 1.90 (see Academic Regulation 13).

Students must complete all course and degree requirements for the four-year Honours degree according to the regulations of the Faculty of Arts and Science as outlined in Academic Regulation 16.

Students who have received a B.A.(Gen.), B.Sc.(Gen.) or B.Cmp.(Gen.) degree at Queen’s may, with the permission of the relevant Department, be admitted to an appropriate Plan (see Academic Regulation 2). They may complete the requirements for an Honours degree in the same or a different Plan to that in which they graduated with the General degree.

All courses from the first degree will count toward the Honours degree.

Students who have or who qualify for a four-year degree should refer to the Second Degree Program section of this chapter.
Applied Economics – Major (Arts) – Bachelor of Arts (Honours)

APEC-M-BAH

Subject: Administered by the Department of Economics.

Plan: Consists of 66.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (27.0 units)**
   A. 6.0 units from ECON 110/6.0 or (ECON 111/3.0 and ECON 112/3.0)
   B. 12.0 units in ECON 212/3.0, ECON 222/3.0, ECON 250/3.0, ECON 255/3.0
   C. 6.0 units in ECON 310/3.0, ECON 351/3.0
   D. 3.0 units in ECON 452/3.0

2. **OPTION COURSES (33.0 units)**
   A. 9.0 units from Option List 2Di or 2Dii
      i. *Seminar Option (9.0 units)*
         a. 3.0 units from ECON 480-499
         b. 6.0 units from ECON at the 400-level
      ii. *Thesis Option (9.0 units)*
         a. 6.0 units in ECON 590/6.0
         b. 3.0 units from ECON at the 400-level
   B. 6.0 units from ECON 231/3.0; ECON 232/3.0; ECON 331/3.0; ECON 332/3.0; ECON 430/3.0
   C. 6.0 units from ECON at the 300-level or above
   D. 12.0 units from ECON at any level; APEC_Subs

3. **SUPPORTING COURSES (6.0 units)**
   A. 6.0 units from MATH 126/6.0 or MATH 121/6.0 or MATH 120/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0)

4. **ADDITIONAL REQUIREMENTS**
   A. No more than 9.0 units may be chosen from the APEC_Subs course list in Option 2A.

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. At least half of the 400- and 500-level units must be obtained at Queen’s University, including the seminars ECON 480-499 unless departmental permission is secured prior to obtaining transfer units from another university.
Fine Art – Major (Fine Art) – Bachelor of Fine Art (Honours)

ARTF-M-BFH

Subject: Administered by the Department of Art.

Plan: Consists of 72.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 120.0 units, will lead to a Bachelor of Fine Art (Honours) Degree.

1. **CORE COURSES (60.0 units)**
   A. 12.0 units in ARTF 127/6.0 and ARTF 128/6.0
   B. 12.0 units in ARTF 227/6.0 and ARTF 228/6.0
   C. 18.0 units in ARTF 337/9.0 and ARTF 338/9.0
   D. 18.0 units in ARTF 447/9.0 and ARTF 448/9.0

2. **OPTION COURSES (0.0 units)**
   (none)

3. **SUPPORTING COURSES (12.0 units)**
   A. 6.0 units from ARTH 120/6.0
   B. 6.0 units from ARTH at the 200-level

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. First and second year ARTF courses consist of 12 hours of studio classes plus 12 hours of independent studio activities per week; Third and fourth year ARTF courses consist of 24 hours of studio activities per week.
   B. ARTH 227/6.0 or (ARTH 231/3.0 and ARTH 232/3.0) are recommended courses for Supporting Course 3B.
Fine Art – General (Fine Art) – Bachelor of Fine Art

ARTF-G-BFA

Subject: Administered by the Department of Art.

Plan: Consists of 54.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units will lead to a Bachelor of Fine Art Degree.

1. **CORE COURSES (42.0 units)**
   - A. 12.0 units in ARTF 127/6.0 and ARTF 128/6.0
   - B. 12.0 units in ARTF 227/6.0 and ARTF 228/6.0
   - C. 18.0 units in ARTF 337/9.0 and ARTF 338/9.0

2. **OPTION COURSES (0.0 units)**
   (none)

3. **SUPPORTING COURSES (12.0 units)**
   - A. 6.0 units in ARTH 120/6.0
   - B. 6.0 units from ARTH at the 200-level

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   - A. This Plan, unlike most other General Plans, may **not** be added to a Major to form a Major-Minor Plan combination.
   - B. First and second year ARTF courses consist of 12 hours of studio classes plus 12 hours of independent studio activities per week; Third year ARTF courses consist of 24 hours of studio activities per week.
   - C. ARTH 227/6.0 or (ARTH 231/3.0 and ARTH 232/3.0) are recommended courses for Option 3B.
Art History – Major (Arts) – Bachelor of Arts (Honours)

ARTH-M-BAH

Subject: Administered by the Department of Art.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (6.0 units)**
   A. 6.0 units from (ARTH116/3.0 and ARTH 117/3.0) or ARTH 120/6.0

2. **OPTION COURSES (54.0 units)**
   A. 9.0 units from ARTH at the 400-level
   B. 21.0 units from ARTH at the 300-level or above; CLST 404/3.0; CLST 405/3.0; GNDS 350/3.0; GNDS 351/3.0; GNDS 352/3.0
   C. 24.0 units from ARTH at the 100 or 200 level

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. In order to become competent in the discipline and to prepare for the 400-level seminars, honours students are expected to spread their upper-year courses across the major areas taught by the Department
Art History – Medial (Arts) – Bachelor of Arts (Honours)

ARTH[----]-A or ----ARTH-A (where ---- is a second subject of study)

Subject: Administered by the Department of Art.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (6.0 units)**
   A. 6.0 units from (ARTH116/3.0 and ARTH 117/3.0) or ARTH 120/6.0

2. **OPTION COURSES (36.0 units)**
   A. 24.0 units from ARTH at the 100 or 200 level
   B. 6.0 units from ARTH at the 400-level
   C. 6.0 units from ARTH at the 300-level or above; CLST 404/3.0; CLST 405/3.0; GNDS 350/3.0; GNDS 351/3.0; GNDS 352/3.0

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **SUBSTITUTIONS**
   (none)

5. **ADDITIONAL REQUIREMENTS**
   (none)

6. **NOTES**
   A. In order to become competent in the discipline and to prepare for the 400-level seminars, honours students are expected to spread their upper-year courses across the major areas taught by the Department
Art History – Minor (Arts)

ARTH-Y

Subject: Administered by the Department of Art.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Art History – General (Arts) – Bachelor of Arts

ARTH-G-BA

Subject: Administered by the Department of Art.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (6.0 units)**
   A. 6.0 units from (ARTH116/3.0 and ARTH 117/3.0) or ARTH 120/6.0

2. **OPTION COURSES (24.0 units)**
   A. 24.0 units from ARTH at the 100-level or above; CLST 404/3.0; CLST 405/3.0; GNDS 350/3.0; GNDS 351/3.0; GNDS 352/3.0

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES** (none)
Astrophysics – Specialization (Science) – Bachelor of Science (Honours)

ASPH-P-BSH

Subject: Administered by the Department of Physics, Engineering Physics & Astronomy.

Plan: Consists of 99.0 units as described below.

Program: The Plan, together with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (90.0 units)**
   A. 6.0 units from PHYS 104/6.0 or PHYS 106/6.0
   B. 6.0 units in CHEM 112/6.0
   C. 6.0 units from MATH 110/6.0 or MATH 111/6.0
   D. 6.0 units from MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0)
   E. 18.0 units in PHYS 206/3.0, PHYS 212/3.0, PHYS 216/3.0, PHYS 239/3.0, PHYS 242/3.0, PHYS 250/3.0
   F. 3.0 units from MATH 280/3.0 or MATH 221/3.0
   G. 3.0 units from MATH 231/3.0 or MATH 232/3.0
   H. 27.0 units in PHYS 312/6.0, PHYS 313/3.0, PHYS 315/3.0, PHYS 321/3.0, PHYS 344/3.0, PHYS 345/3.0, PHYS 350/3.0, PHYS 372/3.0
   I. 15.0 units in PHYS 432/3.0, PHYS 435/3.0, PHYS 453/3.0, PHYS 590/6.0

2. **OPTION COURSES (9.0 units)**
   A. 3.0 units from PHYS 414/3.0 or PHYS 422/3.0
   B. 6.0 units from PHYS at the 400-level or above

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   (none)
Biochemistry – Major (Science) – Bachelor of Science (Honours)

BCHM-M-BSH

Subject: Administered by the Department of Biomedical and Molecular Sciences.

Plan: Consists of 69.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (60.0 units)**
   A. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   B. 6.0 units in BIOL 102/3.0 and BIOL 103/3.0
   C. 6.0 units from PHYS 117/6.0 or PHYS 106/6.0 or PHYS 104/6.0 or PHYS 107/6.0
   D. 6.0 units in BIOL 205/3.0 and MBIO 218/3.0
   E. 12.0 units in CHEM 211/3.0, CHEM 212/3.0, CHEM 222/3.0, CHEM 223/3.0
   F. 12.0 units in BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, BCHM 317/3.0
   G. 3.0 units in BCHM 441/3.0
   H. 9.0 units from BCHM 410/3.0; BCHM 411/3.0; BCHM 431/3.0; BCHM 432/3.0; BCHM 433/3.0

2. **OPTION COURSES (0.0 units)**
   (none)

3. **SUPPORTING COURSES (9.0 units)**
   A. 6.0 units from MATH 122/6.0 or MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0)
   B. 3.0 units in STAT 263/3.0

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Students who may wish later to change to a chemistry program should take one of PHYS 106/6.0 or PHYS 104/6.0; students who may wish later to change to a physics program should take PHYS 104/6.0.
   B. Students wishing to take upper-year BIOL courses as electives should take BIOL 206/3.0 as an elective.
   C. Electives consisting of 3.0 – 6.0 units at the 300-level in any of ANAT; BIOL; CHEM; MICR; PHAR; PHGY with a laboratory component are recommended. Of these, CHEM 311/3.0; CHEM 398/3.0; CHEM 399/3.0 are strongly recommended.
Biochemistry – Minor (Science)

BCHM-Z

Subject: Administered by the Department of Biomedical and Molecular Sciences.

Plan: Consists of 39.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Biochemistry – General (Science) – Bachelor of Science

BCHM-G-BSC

Subject: Administered by the Department of Biomedical and Molecular Sciences.

Plan: Consists of 39.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, of which at least 48.0 units including the Plan units must be in the physical, and natural sciences or mathematics, will lead to a Bachelor of Science Degree.

1. CORE COURSES (39.0 units)
   A. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   B. 6.0 units in BIOL 102/3.0 and BIOL 103/3.0
   C. 6.0 units in BIOL 205/3.0 and MBIO 218/3.0
   D. 12.0 units in CHEM 211/3.0, CHEM 212/3.0, CHEM 222/3.0, CHEM 223/3.0
   E. 9.0 units in BCHM 315/3.0, BCHM 316/3.0, BCHM 317/3.0

2. OPTION COURSES (0.0 units)
   (none)

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   A. BCHM 310/6.0 and a further 3.0 units in the natural and physical sciences and mathematics may be substituted for 1E.

6. NOTES
   A. Students who may wish later to change to a chemistry program should take one of PHYS 106/6.0 or PHYS 104/6.0; students who may wish later to change to a physics program should take PHYS 104/6.0.
B. Students wishing to take upper-year BIOL courses as electives should take BIOL 206/3.0 as an elective.

C. When used towards the requirements of a BSc Program, a total of 48.0 units, including the Plan units, must be in the physical and natural sciences or mathematics.
Biochemistry – Specialization (Science) – Bachelor of Science (Honours)

BCHM-P-BSH

Subject: Administered by the Department of Biomedical and Molecular Sciences.

Plan: Consists of 84.0 units as described below.

Program: The Plan, together with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (81.0 units)**
   A. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   B. 6.0 units in BIOL 102/3.0 and BIOL 103/3.0
   C. 6.0 units from PHYS 117/6.0 or PHYS 106/6.0 or PHYS 104/6.0 or PHYS 107/6.0
   D. 6.0 units from MATH 122/6.0 or MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0)
   E. 6.0 units in BIOL 205/3.0 and MBIO 218/3.0
   F. 12.0 units in CHEM 211/3.0, CHEM 212/3.0, CHEM 222/3.0, CHEM 223/3.0
   G. 3.0 units in STAT 263/3.0
   H. 12.0 units in BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, BCHM 317/3.0
   I. 18.0 units in BCHM 410/3.0, BCHM 411/3.0, BCHM 421/6.0, BCHM 422/6.0
   J. 6.0 units in (BCHM 432/3.0 and BCHM 442/3.0) or (BCHM 431/3.0 and BCHM 433/3.0)

2. **OPTION COURSES (3.0 units)**
   A. 3.0 units from BCHM_Labs

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Students who may wish later to change to a chemistry program should take one of PHYS 106/6.0 or PHYS 104/6.0; students who may wish later to change to a physics program should take PHYS 104/6.0.
   B. Students wishing to take upper-year BIOL courses as electives should take BIOL 206/3.0 as an elective.
Biology and Mathematics – Specialization (Science) – Bachelor of Science (Honours)

BIMA-P-BSH

Subject: Administered by the Departments of Biology and Mathematics and Statistics.

Plan: Consists of 84.0 units as described below.

Program: The Plan, with sufficient electives to total of 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (63.0 units)**
   (Biology)
   A. 6.0 units in BIOL 102/3.0 and BIOL 103/3.0
   B. 6.0 units in CHEM 112/6.0 or CHEM 116/6.0
   C. 12.0 units in BIOL 201/3.0, BIOL 202/3.0, BIOL 205/3.0, BIOL 206/3.0
   D. 3.0 units from BIOL 302/3.0 or BIOL 303/3.0
   E. 3.0 units from BIOL 339/3.0 or BIOL 334/3.0 or BIOL 341/3.0 or BIOL 301/3.0 or BIOL 338/3.0
   F. 3.0 units from BIOL 330/3.0 or MBIO 218/3.0 or MBIO 318/3.0
   (Mathematics)
   G. 6.0 units from MATH 110/6.0 or MATH 111/6.0
   H. 6.0 units from MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0
   I. 3.0 units from MATH 221/3.0 or MATH 280/3.0
   J. 3.0 units from MATH 231/3.0 or MATH 232/3.0
   K. 3.0 units from STAT 268/3.0 or STAT 351/3.0
   L. 3.0 units from BIOL 243/3.0 or STAT 269/3.0
   M. 6.0 units in BIOM 300/3.0 and MATH 339/3.0

2. **OPTION COURSES (21.0 units)**
   A. 6.0 units from BIOL at the 300-level or above
   B. 3.0 units from BIOL
   C. 6.0 units from MATH or STAT at the 300-level or above
   D. 6.0 units from MATH or STAT

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. BCHM 310/6.0 may be substituted for 3.0 units from (BIOL 339/3.0 or BIOL 341/3.0 or BIOL 334/3.0 or BIOL 301/3.0 or BIOL 338/3.0) with the remaining 3.0 units applied toward the BIOL Option Course requirements.
6. NOTES
   (none)
Biology – Major (Science) – Bachelor of Science (Honours)

BIOL-M-BSH

Subject: Administered by the Department of Biology.

Plan: Consists of 72.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (30.0 units)**
   (Core Program)
   A. 6.0 units in BIOL 102/3.0 and BIOL 103/3.0
   B. 12.0 units in BIOL 201/3.0, BIOL 202/3.0, BIOL 205/3.0, BIOL 206/3.0
   C. 3.0 units from BIOL 302/3.0 or BIOL 303/3.0
   D. 3.0 units from BIOL 339/3.0 or BIOL 341/3.0 or BIOL 334/3.0 or BIOL 301/3.0 or BIOL 338/3.0
   E. 3.0 units from BIOL 330/3.0 or MBIO 218/3.0
   (Other Core Courses)
   F. 3.0 units in BIOL 243/3.0

2. **OPTION COURSES (30.0 units)**
   A. 24.0 units from one of Option List 2Ai or 2Aii
      i. Seminar Option (24.0 units)
         1. 3.0 units from BIOL at the 500-level
         2. 3.0 units from BIOL at the 400-level or above
         3. 12.0 units from BIOL at the 300-level or above; BIOL_Subs_A
         4. 6.0 units from BIOL at the 300-level or above; BIOL_Subs_A; BIOL_Subs_B
      ii. Research Option (24.0 units)
         1. 12.0 units in BIOL 537/12.0
         2. 6.0 units from BIOL at the 300-level or above; BIOL_Subs_A
         3. 6.0 units from BIOL at the 300-level or above; BIOL_Subs_A; BIOL_Subs_B
   B. 6.0 units from CHEM at the 200-level or above; ENSC 471/3.0; BIOL 334/3.0; ENSC 371/3.0

3. **SUPPORTING COURSES (12.0 units)**
   A. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   B. 6.0 units from MATH 122/6.0 or MATH 121/6.0 or MATH 120/6.0 or (MATH123/3.0 and MATH 124/3.0)

4. **ADDITIONAL REQUIREMENTS**
   (none)
5. **SUBSTITUTIONS**
   
   **A.** BCHM 310/6.0 may be substituted for 3.0 units from (BIOL 339/3.0 or BIOL 341/3.0 or BIOL 334/3.0 or BIOL 301/3.0 or BIOL 338/3.0) with the remaining 3.0 units applied toward Option Course requirements in the degree program.
   
   **B.** MATH 126/6.0 may be substituted for Supporting Courses 3B with prior approval from the Chair of Undergraduate Studies in the Department of Biology.

6. **NOTES**
   
   **A.** PHYS 117/6.0 (or PHYS 104/6.0 or 106/6.0 or 107/6.0) is highly recommended but not required.
   
   **B.** BIOL 334/3.0 can be used as either a Core Course or an Option course 2B, but not both.
Biology – Minor (Science)

BIOL-Z

Subject: Administered by the Department of Biology.

Plan: Consists of 36.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Biology– General (Science) – Bachelor of Science

BIOL-G-BSC

Subject: Administered by the Department of Biology.

Plan: Consists of 36.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, of which at least 48.0 units including the Plan units must be in the physical, and natural sciences or mathematics, will lead to a Bachelor of Science Degree.

1. CORE COURSES (6.0 units)
   A. 6.0 units in BIOL 102/3.0 and BIOL 103/3.0

2. OPTION COURSES (24.0 units)
   A. 6.0 units from BIOL at the 300-level or above; BIOL_Subs_A; BIOL_Subs_B
   B. 12.0 units from BIOL at the 200-level
   C. 6.0 units from BIOL at the 300-level or above; BIOL_Subs_A

3. SUPPORTING COURSES (6.0 units)
   A. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. When used towards the requirements of a BSc Program, a total of 48.0 units, including the Plan units, must be in the physical and natural sciences or mathematics.
**Biology – Minor (Arts)**

BIOL-Y

Subject: Administered by the Department of Biology.

Plan: Consists of 36.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

**Biology – General (Arts) – Bachelor of Arts**

BIOL-G-BA

Subject: Administered by the Department of Biology.

Plan: Consists of 36.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (24.0 units)**
   A. 6.0 units from BIOL 102/3.0 and BIOL 103/3.0
   B. 6.0 units in BIOL 201/3.0 and BIOL 202/3.0
   C. 12.0 units from BIOL 205/3.0; BIOL 206/3.0; BIOL 302/3.0; BIOL 303/3.0; BIOL 110/3.0; BIOL 111/3.0; BIOL 210/3.0; BIOL 334/3.0.

2. **OPTION COURSES (6.0 units)**
   A. 6.0 units from BIOL at the 300-level; MBIO 218/3.0

3. **SUPPORTING COURSES (6.0 units)**
   A. 6.0 units from CHEM

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. 6.0 units from PHGY 214/6.0 or PHGY 212/6.0 or PHGY 210/6.0 can be substituted for 6.0 credit from BIOL 201/3.0; BIOL 202/3.0; BIOL 205/3.0; BIOL 206/3.0 (note the enrolment restrictions of the Physiology Department apply). This substitution is not allowed in any other Biology Plan.
6. NOTES
   A. BIOL 110/3.0 and BIOL 111/3.0 may not be used towards the requirements of any other Biology Plan.
   B. All other out-of-Department substitutions must be approved by the Chair of Undergraduate Studies in the Department of Biology.
Biology – Specialization (Science) – Bachelor of Science (Honours)

BIOL-P-BSH

Subject: Administered by the Department of Biology.

Plan: Consists of 96.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (42.0 units)**
   (Core Program)
   A. 6.0 units in BIOL 102/3.0 and BIOL 103/3.0
   B. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   C. 6.0 units from MATH 122/6.0 or MATH 121/6.0 or MATH 120/6.0 or (MATH123/3.0 and MATH 124/3.0)
   D. 12.0 units in BIOL 201/3.0, BIOL 202/3.0, BIOL 205/3.0, BIOL 206/3.0
   E. 3.0 units from BIOL 302/3.0 or BIOL 303/3.0
   F. 3.0 units from BIOL 339/3.0 or BIOL 341/3.0 or BIOL 334/3.0 or BIOL 301/3.0 or BIOL 338/3.0
   G. 3.0 units from BIOL 330/3.0 or MBIO 218/3.0
   
   (Other Core Courses)
   H. 3.0 units in BIOL 243/3.0

2. **OPTION COURSES (54.0 units)**
   A. 48.0 units from one of Option List 2Ai or 2Aii
      i. **Seminar Option (48.0 units)**
         1. 3.0 units from BIOL 500-level
         2. 3.0 units from BIOL 400-level or above
         3. 30.0 units from BIOL at the 300-level or above; BIOL_Subs_A
         4. 12.0 units from BIOL at the 300-level or above; BIOL_Subs_A; BIOL_Subs_B
      ii. **Research Option (48.0 units)**
          1. 12.0 units in BIOL 537/12.0
          2. 36.0 units from BIOL at the 300-level or above
   B. 6.0 units from CHEM at the 200-level or above; ENSC 471/3.0; BIOL 334/3.0; ENSC 371/3.0

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)
5. **SUBSTITUTIONS**
   A. BCHM 310/6.0 may be substituted for 3.0 units from (BIOL 339/3.0 or BIOL 341/3.0 or BIOL 334/3.0 or BIOL 301/3.0 or BIOL 338/3.0) with the remaining 3.0 units applied toward Option Course requirements in the degree program.
   B. MATH 126/6.0 may be substituted for MATH 122/6.0 or MATH 121/6.0 or MATH 120/6.0 with prior approval from the Chair of Undergraduate Studies in the Department of Biology.

6. **NOTES**
   A. PHYS 117/6.0 (or PHYS 104/6.0 or 106/6.0 or 107/6.0) is highly recommended but not required.
   B. BIOL 334/3.0 can be used as either a Core Course or an Option Course **2B**, but not both.
Biology and Psychology – Specialization (Science) – Bachelor of Science (Honours)

BIPS-P-BSH

Subject: Administered by the Departments of Biology and Psychology.

Plan: Consists of 84.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (45.0 units)**
   
   **(Biology)**
   
   A. 6.0 units from BIOL 102/3.0 and BIOL 103/3.0
   B. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   C. 12.0 units in BIOL 201/3.0, BIOL 202/3.0, BIOL 205/3.0, BIOL 206/3.0
   D. 3.0 units from BIOL 302/3.0 or BIOL 303/3.0
   E. 3.0 units from BIOL 339/3.0 or BIOL 341/3.0 or BIOL 334/3.0 or **BIOL 301/3.0**
   or **BIOL 338/3.0**
   F. 3.0 units from BIOL 330/3.0 or MBIO 218/3.0 or **MBIO 318/3.0**
   
   **(Psychology)**
   
   G. 6.0 units in PSYC 100/6.0
   H. 6.0 units in (PSYC 202/3.0 or BIOL 243/3.0) and PSYC 203/3.0

2. **OPTION COURSES (39.0 units)**
   
   **(Biology)**
   
   A. 3.0 units from BIOL at the 300-level or above; BIOL_Subs_A
   B. 6.0 units from BIOL at the 300-level or above; BIOL_Subs_A; BIOL_Sub_B_Excluding_PSYC
   
   **(Psychology)**
   
   C. 6.0 units from PSYC 205/3.0; PSYC 215/3.0; PSYC 221/3.0; PSYC 271/3.0
   D. 6.0 units from PSYC 231/3.0; PSYC 235/6.0; PSYC 241/3.0; PSYC 251/3.0
   E. 6.0 units from PSYC_Cluster_A
   F. 6.0 units from PSYC_Cluster_B
   G. 6.0 units from PSYC at the 200-level or above; COGS 300/3.0; COMM 352/3.0; INTS 306/3.0

3. **SUPPORTING COURSES (0.0 units)**
   
   (none)

4. **ADDITIONAL REQUIREMENTS**
   
   A. 3.0 units from the courses chosen above must be from PSYC_Labs.
5. **SUBSTITUTIONS**
   A. BCHM 310/6.0 may be substituted for 3.0 units from (BIOL 339/3.0 or BIOL 341/3.0 or BIOL 334/3.0 or *BIOL 301/3.0* or *BIOL 338/3.0*) with the remaining 3.0 units applied toward BIOL Option Course requirements.

6. **NOTES**
   A. One of PHYS 117/6.0; *PHYS 107/6.0*; PHYS 104/6.0; PHYS 106/6.0 is highly recommended but not required.
Biomedical Computing – Specialization (Computing) – Bachelor of Computing (Honours)

BMCO-P-BCH (Biomedical Computing)
BMCO-I-BCH (Internship)

Subject: Administered by the School of Computing in cooperation with the Departments of Biology, Chemistry, and Biochemistry.

Plan: Consists of 105.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Computing (Honours) Degree.

1. **CORE COURSES (96.0 units)**
   A. 6.0 units in CISC 121/3.0 and CISC 124/3.0
   B. 6.0 units in BIOL 102/3.0 and BIOL 103/3.0
   C. 6.0 units in CHEM 112/6.0
   D. 6.0 units from MATH 111/6.0 or MATH 110/6.0
   E. 6.0 units from MATH 122/6.0 or MATH 121/6.0 or MATH 120/6.0
   F. 3.0 units in STAT 263/3.0
   G. 24.0 units in CISC 203/3.0, CISC 204/3.0, CISC 220/3.0, CISC 221/3.0, CISC 223/3.0, CISC 235/3.0, CISC 260/3.0, CISC 271/3.0
   H. 3.0 units in BIOL 205/3.0
   I. 3.0 units from MBIO 218/3.0
   J. 15.0 units in CISC 320/3.0, CISC 330/3.0, CISC 332/3.0, CISC 352/3.0, CISC 365/3.0
   K. 3.0 units in BIOL 334/3.0 or BCHM 315/3.0
   L. 3.0 units in BIOL 331/3.0
   M. 6.0 units in CISC 471/3.0, CISC 472/3.0
   N. 3.0 units in CISC 497/3.0
   O. 3.0 units in CISC 499/3.0

2. **OPTION COURSES (9.0 units)**
   A. 9.0 units from BMCO_Options

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. Students in the internship version of this Plan will substitute 3.0 units from COMP at the 300-level for requirement 1-O (CISC 499/3.0). In addition, the B.Cmp. Program requirements will be increased by 6.0 units from COMP at the
300-level, for a total of 126.0 units if the student is taking a 12 month internship or by 9.0 units from COMP at the 300-level, for a total of 129.0 units, if the student is taking a 16 month internship.

6. NOTES
   A. Those students with no programming experience should review first year course choices based on the Section on *Introductory Courses* at the start of the chapter on Computing.
   B. ELEC courses are offered by the Faculty of Engineering and Applied Science. Special permission may be required to register. All such courses will count as 3.0 units towards degree requirements in Arts and Sciences.
Chemistry – Major (Science) – Bachelor of Science (Honours)

CHEM-M-BSH

Subject: Administered by the Department of Chemistry.

Plan: Consists of 72.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (57.0 units)**
   A. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   B. 3.0 units in MATH 112/3.0
   C. 18.0 units in CHEM 211/3.0, CHEM 212/3.0, CHEM 213/3.0, CHEM 221/3.0, CHEM 222/3.0, CHEM 223/3.0
   D. 24.0 units in CHEM 311/3.0, CHEM 312/3.0, CHEM 313/3.0, CHEM 321/3.0, CHEM 322/3.0, CHEM 323/3.0, CHEM 397/6.0
   E. 6.0 units in CHEM 497/6.0

2. **OPTION COURSES (3.0 units)**
   A. 3.0 units from CHEM at the 400-level

3. **SUPPORTING COURSES (12.0 units)**
   A. 6.0 units from PHYS 106/6.0 or PHYS 104/6.0
   B. 6.0 units from MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Students wishing to continue to graduate studies in chemistry should consider as electives at least 6.0 further units in chemistry at the 300- and 400-level (including 300-level and 400-level BCHM offerings and PHYS 424/3.0)
Chemistry – Minor (Science)

CHEM-Z

Subject: Administered by the Department of Chemistry.

Plan: Consists of 48.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Chemistry– General (Science) – Bachelor of Science

CHEM-G-BSC

Subject: Administered by the Department of Chemistry.

Plan: Consists of 48.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, of which at least 48.0 units including the Plan units must be in the physical, and natural sciences or mathematics, will lead to a Bachelor of Science Degree.

1. CORE COURSES (27.0 units)
   A. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   B. 18.0 units in CHEM 211/3.0, CHEM 212/3.0, CHEM 213/3.0, CHEM 221/3.0, CHEM 222/3.0, CHEM 223/3.0
   C. 3.0 units from CHEM 398/3.0 or CHEM 399/3.0

2. OPTION COURSES (9.0 units)
   A. 9.0 units from CHEM at the 300-level

3. SUPPORTING COURSES (12.0 units)
   A. 6.0 units from PHYS 106/6.0 or PHYS 104/6.0
   B. 6.0 units from MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. When used towards the requirements of a BSc Program, a total of 48.0 units, including the Plan units, must be in the physical and natural sciences or mathematics.
Chemistry – Minor (Arts)

CHEM-Y

Subject: Administered by the Department of Chemistry.

Plan: Consists of 36.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Chemistry – General (Arts) – Bachelor of Arts

CHEM-G-BA

Subject: Administered by the Department of Chemistry.

Plan: Consists of 36.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 credits, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (6.0 units)**
   A. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0

2. **OPTION COURSES (24.0 units)**
   A. 3.0 units from CHEM at the 300-level or above
   B. 21.0 units from CHEM

3. **SUPPORTING COURSES (6.0 units)**
   A. 6.0 units from MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   (none)
Chemistry – Specialization (Science) – Bachelor of Science (Honours)

CHEM-P-BSH

Subject: Administered by the Department of Chemistry.

Plan: Consists of 90.0 units as described below.

Program: The Plan, together with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (69.0 units)**
   A. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   B. 6.0 units from PHYS 106/6.0 or PHYS 104/6.0
   C. 3.0 units in MATH112/3.0
   D. 6.0 units from MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0)
   E. 18.0 units in CHEM 211/3.0, CHEM 212/3.0, CHEM 213/3.0, CHEM 221/3.0, CHEM 222/3.0, CHEM 223/3.0
   F. 24.0 units in CHEM 311/3.0, CHEM 312/3.0, CHEM 313/3.0, CHEM 321/3.0, CHEM 322/3.0, CHEM 323/3.0, CHEM397/6.0
   G. 6.0 units in CHEM 497/6.0

2. **OPTION COURSES (21.0 units)**
   A. 12.0 units from CHEM at the 400-level or above; CHEM_Subs
   B. 9.0 units from CHEM; CHEM_Subs

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. A maximum of 12.0 units may be chosen from CHEM_Subs

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   (none)
Computing and Information Science – Minor (Arts)

CISC-Y

Subject: Administered by the School of Computing.

Plan: Consists of 36.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Computing and Information Science – General (Arts) – Bachelor of Arts

CISC-G-BA

Subject: Administered by the School of Computing.

Plan: Consists of 36.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. CORE COURSES (21.0 units)
   A. 6.0 units in CISC 121/3.0 and CISC 124/3.0
   B. 15.0 units in CISC 203/3.0, CISC 204/3.0, CISC 220/3.0, CISC 221/3.0, CISC 235/3.0

2. OPTION COURSES (9.0 units)
   A. 3.0 units from CISC 322/3.0 or CISC 324/3.0 or CISC 326/3.0
   B. 6.0 units from CISC; CISC_Subs; SOFT at the 200 level or above

3. SUPPORTING COURSES (6.0 units)
   A. 6.0 units from MATH 111/6.0 or MATH 110/6.0 or MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0) or MATH 126/6.0

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Those students with no programming experience should review first year course choices based on the Section on Introductory Courses at the start of the chapter on Computing.
B. ELEC courses are offered by the Faculty of Engineering and Applied Science. Special permission may be required to register. All such courses will count as 3.0 units towards degree requirements in Arts and Sciences.
Classical Studies – Major (Arts) – Bachelor of Arts (Honours)

CLST-M-BAH

Subject: Administered by the Department of Classics.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (0.0 units)**
   (none)

2. **OPTION COURSES (60.0 units)**
   A. 6.0 units from CLST; GREK; LATN at the 100-level
   B. 24.0 units from CLST; GREK; LATN at the 300-level or above; HIST 417/6.0
   C. 18.0 units from CLST; GREK; LATN at the 200-level or above; CLST_Subs
   D. 12.0 units from CLST; GREK; LATN; CLST_Subs

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Courses numbered at the 100-level must be taken early in the program (in first or second year).
Classical Studies – Medial (Arts) – Bachelor of Arts (Honours)

CLST[----]-A or [----]CLST-A (where [----] is a second subject of study)

Subject: Administered by the Department of Classics.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (0.0 units)
   (none)

2. OPTION COURSES (42.0 units)
   A. 12.0 units from CLST; GREK; LATN at the 300-level or above; HIST 417/6.0
   B. 12.0 units from CLST; GREK; LATN at the 200-level or above; CLST_Subs
   C. 18.0 units from CLST; GREK; LATN at any level; CLST_Subs

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Courses numbered at the 100-level must be taken early in the program (in first or second year).
Classical Studies – Minor (Arts)

CLST-Y

Subject: Administered by the Department of Classics.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Classical Studies – General (Arts) – Bachelor of Arts

CLST-G-BA

Subject: Administered by the Department of Classics.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (0.0 units)**
   (none)

2. **OPTION COURSES (30.0 units)**
   A. 12.0 units from CLST; GREK; LATN at the 200-level or above; CLST_Subs
   B. 18.0 units from CLST; GREK; LATN; CLST_Subs

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Courses numbered at the 100-level must be taken early in the program (in first or second year).
Classics – Specialization (Arts) – Bachelor of Arts (Honours)

CLST-P-BAH

Subject: Administered by the Department of Classics.

Plan: Consists of 84.0 units as described below.

Program: The Plan, with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (60.0 units)
   
   **Latin**
   A. 12.0 units in LATN 110/6.0 and LATN 209/6.0
   B. 6.0 units from LATN 310/6.0 or LATN 311/6.0 or LATN 327/6.0
   C. 6.0 units from LATN 410/6.0 or LATN 411/6.0 or LATN 431/6.0
   D. 6.0 units from LATN at the 300-level or above
   
   **Greek**
   E. 12.0 units in GREK 112/6.0 and GREK 208/6.0
   F. 6.0 units from GREK 310/6.0 or GREK 311/6.0
   G. 6.0 units from GREK 410/6.0 or GREK 411/6.0 or GREK 430/6.0
   H. 6.0 units from GREK at the 300-level or above
   
   **General Examination**
   I. 0.0 units from LATN 591/0.0 or GREK 591/0.0

2. OPTION COURSES (24.0 units)
   A. 24.0 units from CLST; GREK; LATN

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Courses numbered at the 100-level must be taken early in the program (in first or second year).
Computing and the Creative Arts - Specialization (Arts) - Bachelor of Arts (Honours)

COCA-P-BAH

Subject: Administered by the School of Computing in partnership with the Departments of Art, Drama, Film and the School of Music.

Plan: Consists of 45.0 core units and 39.0 units in one SubPlan, as described below.

Program: The Plan, with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (45.0 units)
   A. 6.0 units in CISC 121/3.0 and CISC 124/3.0
   B. 3.0 units from MATH 112/3.0 or MATH 111/6.0 or MATH 110/6.0
   C. 3.0 units in COCA 201/3.0
   D. 18.0 units in CISC 203/3.0, CISC 204/3.0, CISC 220/3.0, CISC 223/3.0, CISC 235/3.0, CISC 260/3.0
   E. 9.0 units in CISC 325/3.0, CISC 352/3.0, CISC 365/3.0
   F. 3.0 units from CISC; CISC_Subs; SOFT at the 400 level
   G. 3.0 units from CISC P82/3.0; CISC; CISC_Subs; SOFT at the 200 level or above

2. SUBPLANS (39.0 units)

A. COMPUTING AND ART (COAR) (39.0 units)
   i. CORE COURSES (24.0 units)
      a. 6.0 units in ARTH 120/6.0
      b. 12.0 units from ARTH 123/6.0; ARTH 213/6.0; ARTH 227/6.0
      c. 6.0 credit from ARTF 260/3.0; ARTH 210/3.0; ARTH 231/3.0; ARTH 232/3.0; ARTH 291/3.0; ARTH 292/3.0
   ii. OPTION COURSES (15.0 units)
      a. 3.0 units from ARTH at the 400 level
      b. 12.0 units from ARTH at the 300 level or above

B. COMPUTING AND DRAMA (CODR) (39.0 units)
   i. CORE COURSES (18.0 units)
      a. 6.0 units from DRAM 100/6.0 or DRAM 181/6.0
      b. 6.0 units in DRAM 210/6.0
      c. 6.0 units from DRAM 240/3.0; DRAM 241/3.0; DRAM 242/3.0
   ii. OPTION COURSES (21.0 units)
      a. 12.0 units from DRAM at the 300-level or above
      b. 9.0 units from DRAM
C. COMPUTING AND FILM (COFI) (39.0 units)
i. CORE COURSES (21.0 units)
   a. 6.0 units from FILM 110/6.0 or (FILM 104/3.0 and FILM 106/3.0)
   b. 9.0 units from (FILM 206/3.0, FILM 216/3.0, FILM 226/3.0, FILM 236/3.0, FILM 240/3.0) or (FILM 215/6.0 and FILM 225/6.0)
   c. 6.0 units in FILM 250/6.0
ii. OPTION COURSES (18.0 units)
   a. 6.0 units from FILM at the 400 level
   b. 12.0 units from FILM at the 300 level or above
iii. SUPPORTING COURSES
     (none)
iv. SUBSTITUTIONS
    (none)
v. NOTES
    (none)

D. COMPUTING AND MUSIC (COMU) (39.0 units)
i. CORE COURSES ( 12.0 units)
   a. 9.0 units in MUSC 103/3.0 and MUSC 191/6.0
   b. 3.0 units from MUSC 203/3.0 or MUSC 204/3.0 or MUSC 205/3.0
ii. OPTION COURSES (27.0 units)
   a. 12.0 units from MUSIC_Musicology or MUSIC_Theory or MUSIC_Education or MUSIC_Performance
   b. 15.0 units from MUSC
iii. SUPPORTING COURSES
     (none)
iv. SUBSTITUTIONS
    (none)
v. NOTES
    a. Courses selected must include 6.0 units in MUSC at the 100 level or above, 12.0 units in MUSC at the 200 level or above and 12.0 units in MUSC at the 300 level or above.
    b. Students in this SubPlan rank with MUSC Medial students in access to Music courses.

3. SUPPORTING COURSES
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)
6. **NOTES**
   
   **A.** Those students with no programming experience should review first year course choices based on the Section on Introductory Courses at the start of the Computing chapter.

   **B.** ELEC courses are offered by the Faculty of Engineering and Applied Science. Special permission may be required to register. All such courses will count as 3.0 units towards degree requirements in Arts and Science.
Cognitive Science – Specialization (Computing) – Bachelor of Computing (Honours)

COGS-P-BCH (Cognitive Science)
COGS-I-BCH (with internship)

Subject: Administered by the School of Computing in cooperation with the Departments of Linguistics, Philosophy and Psychology.

Plan: Consists of 96.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Computing (Honours) Degree.

1. CORE COURSES (54.0 units)
   A. 6.0 units in CISC 121/3.0 and CISC 124/3.0
   B. 6.0 units from MATH 111/6.0 or MATH 110/6.0
   C. 3.0 units in COGS 100/3.0
   D. 3.0 units in COGS 201/3.0
   E. 15.0 units in CISC 203/3.0, CISC 204/3.0, CISC 221/3.0, CISC 235/3.0, CISC 260/3.0
   F. 3.0 units in STAT 263/3.0
   G. 6.0 units in CISC 352/3.0 and COGS 300/3.0
   H. 3.0 units in CISC 453/3.0
   I. 3.0 units from COGS 400/3.0 or CISC 452/3.0
   J. 3.0 units in CISC 497/3.0
   K. 3.0 units in COGS 499/3.0

2. OPTION COURSES (42.0 units)
   A. 30.0 units from two of Option Lists 2Ai; 2Aii; 2Aiii
      i. Linguistics (15.0 units)
         a. 6.0 units in LING 100/6.0
         b. 3.0 units from LING 310/3.0 or LING 320/3.0 or LING 330/3.0
         c. 3.0 units in LING 340/3.0
         d. 3.0 units in LING 415/3.0
      ii. Philosophy (15.0 units)
          a. 6.0 units from (PHIL 170/3.0 or PHIL 154/3.0) and (PHIL 261/3.0 or PHIL 311/3.0 or PHIL 359/3.0) or PHIL 115/6.0.
          b. 6.0 units in PHIL 250/6.0
          c. 3.0 units from PHIL 261/3.0 or PHIL 311/3.0 or PHIL 359/3.0
      iii. Psychology (15.0 units)
          a. 6.0 units in PSYC 100/6.0
          b. 3.0 units in PSYC 221/3.0
          c. 3.0 units from PSYC 203/3.0 or PSYC 215/3.0 or PSYC 271/3.0
          d. 3.0 units from COGS_Psychology at the 300 level or above.
3. **SUPPORTING COURSES (0.0 units)**

   (none)

4. **ADDITIONAL REQUIREMENTS**

   (none)

5. **SUBSTITUTIONS**

   A. Students may be permitted to substitute PSYC 501/9.0 for COGS 499/3.0 and 6.0 additional units of the plan, provided they have taken PSYC 203/3.0 and PSYC 300/6.0, meet the minimum grade requirements for PSYC 501/9.0, and have the support of a supervisor in PSYC.

   B. Students in the internship version of this Plan will substitute 3.0 units from COMP at the 300-level for requirement 1-K (COGS 499/3.0). In addition, the B.Cmp. Program requirements will be increased by 6.0 units from COMP at the 300-level, for a total of 126.0 units if the student is taking a 12 month internship or by 9.0 units from COMP at the 300-level, for a total of 129.0 units, if the student is taking a 16 month internship.

6. **NOTES**

   A. Those students with no programming experience should review first year course choices based on the Section on *Introductory Courses* at the start of the chapter on Computing.

   B. As COGS is a multi-disciplinary subject, several first year courses are required. With the exception of CISC 121/3.0 and MATH 111/6.0, 100-level courses may be deferred to later years depending upon the planned progression of subsequent courses. With approval of an advisor, COGS 100/3.0 may be taken in Year 2 of the plan.

   C. Many upper-year courses in CISC, LING, PHIL and PSYC have prerequisites outside the courses required for COGS, and students should take this into account in planning for their optional and elective units. Not all upper year courses are offered every year.

   D. The plan allows 24.0 units for elective courses. Many disciplines are narrowly focused, and electives are essential to allow students to broaden their education. In the case of COGS, the plan is already very broad, and students are encouraged to use their electives to further pursue the area(s) of Cognitive Science in which they are most interested.
Computing – Major (Computing) – Bachelor of Computing (Honours)

COMP-M-BCH

Subject: Administered by the School of Computing.

Plan: Consists of 72.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 120.0 units, will lead to a Bachelor of Computing (Honours) Degree.

1. **CORE COURSES (45.0 units)**
   A. 6.0 units in CISC 121/3.0 and CISC 124/3.0
   B. 3.0 units in STAT 263/3.0
   C. 21.0 units in CISC 203/3.0, CISC 204/3.0, CISC 220/3.0, CISC 221/3.0, CISC 223/3.0, CISC 235/3.0, CISC 260/3.0
   D. 3.0 units from CISC 322/3.0 or CISC 326/3.0
   E. 6.0 units in CISC 324/3.0, CISC 365/3.0
   F. 3.0 units in CISC 497/3.0
   G. 3.0 units in CISC 499/3.0

2. **OPTION COURSES (15.0 units)**
   (Theory of Computing)
   A. 3.0 units from CISC 422/3.0, CISC 462/3.0, CISC 465/3.0, CISC 466/3.0
   (Applications)
   B. 12.0 units from one of Option List 2Bi or 2Bii
      i. Option List 2Bi (12.0 units)
         a. 3.0 units from CISC 332/3.0, CISC 333/3.0, CISC 352/3.0
         b. 9.0 units from CISC; SOFT at the 400 level
      ii. Option List 2Bii (12.0 units)
          a. 3.0 units from CISC 454/3.0 or CISC 457/3.0
          b. 6.0 units from CISC; SOFT at the 400 level
          c. 3.0 units from CISC; SOFT at the 200 level or above

3. **SUPPORTING COURSES (12.0 units)**
   A. 6.0 units from MATH 111/6.0 or MATH 110/6.0
   B. 6.0 units from MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. Students in the internship version of this Plan will substitute 3.0 units from COMP at the 300-level for requirement 1-G (CISC 499/3.0). In addition, the B.Cmp. Program requirements will be increased by 6.0 units form COMP at the 300-level, for a total of 126.0 units if the student is taking a 12 month internship
or by 9.0 units from COMP at the 300-level, for a total of 129.0 units, if the student is taking a 16 month internship.

6. NOTES

A. Those students with no programming experience should review first year course choices based on the Section on Introductory Courses at the start of the chapter on Computing.

B. ELEC courses are offered by the Faculty of Engineering and Applied Science. Special permission may be required to register. All such courses will count as 3.0 units towards degree requirements in Arts and Sciences.
Computing – General (Computing) – Bachelor of Computing

COMP-G-BCP

Subject: Administered by the School of Computing

Plan: Consists of 48.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, of which at least 48.0 units including the Plan units must be in the physical, and natural sciences or mathematics, will lead to a Bachelor of Computing Degree.

1. **CORE COURSES (27.0 units)**
   A. 6.0 units in CISC 121/3.0 and CISC 124/3.0
   B. 21.0 units in CISC 203/3.0, CISC 204/3.0, CISC 220/3.0, CISC 221/3.0, CISC 223/3.0, CISC 235/3.0, CISC 260/3.0

2. **OPTION COURSES (9.0 units)**
   A. 3.0 units from CISC; SOFT at the 300 level or above
   B. 6.0 units from CISC; SOFT at the 200 level or above

3. **SUPPORTING COURSES (12.0 units)**
   A. 6.0 units from MATH 111/6.0 or MATH 110/6.0
   B. 6.0 units from MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Those students with no programming experience should review first year course choices based on the Section on *Introductory Courses* at the start of the chapter on Computing.
   B. When used towards the requirements of a BCmp Program, a total of 48.0 units, including the Plan units, must be in the physical and natural sciences or mathematics.
Computer Science – Specialization (Computing) – Bachelor of Computing (Honours)

CSCI-P-BCH

Subject: Administered by the School of Computing

Plan: Consists of 105.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Computing (Honours) Degree.

1. **CORE COURSES (60.0 units)**
   A. 6.0 units in CISC 121/3.0 and CISC 124/3.0
   B. 6.0 units from MATH 111/6.0 or MATH 110/6.0
   C. 6.0 units from MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0)
   D. 3.0 units in STAT 263/3.0
   E. 21.0 units in CISC 203/3.0, CISC 204/3.0, CISC 220/3.0, CISC 221/3.0, CISC 223/3.0, CISC 235/3.0, CISC 260/3.0
   F. 3.0 units from CISC 322/3.0 or CISC 326/3.0
   G. 9.0 units in CISC 324/3.0, CISC 340/3.0, CISC 365/3.0
   H. 3.0 units in CISC 497/3.0
   I. 3.0 units in CISC 499/3.0

2. **OPTION COURSES (45.0 units)**
   (Applications)
   A. 12.0 units from one of Option List 2Ai or 2Aii
      i. Option List 2Ai (12.0 units)
         a. 3.0 units from CISC 332/3.0 or CISC 333/3.0 or CISC 352/3.0
         b. 9.0 units from CISC; SOFT at the 400 level
      ii. Option List 2Aii (12.0 units)
         a. 3.0 units from CISC 454/3.0 or CISC 457/3.0
         b. 6.0 units from CISC; SOFT at the 400 level
         c. 3.0 units from CISC; SOFT at the 200 level or above
   (Theory of Computing)
   B. 3.0 units from CISC 422/3.0 or CISC 462/3.0 or CISC 465/3.0 or CISC 466/3.0
   (Complementary Courses)
   C. 9.0 units from the humanities, languages, or social sciences
   D. 21.0 units from any discipline other than CISC, SOFT, MATH, STAT

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)
5. **SUBSTITUTIONS**
   A. Students in the internship version of this Plan will substitute 3.0 units from COMP at the 300-level for requirement 1.I. (CISC 499/3.0). In addition, the B.Cmp. Program requirements will be increased by 6.0 units from COMP at the 300-level, for a total of 126.0 units if the student is taking a 12 month internship or by 9.0 units from COMP at the 300-level, for a total of 129.0 units, if the student is taking a 16 month internship.

6. **NOTES**
   A. Those students with no programming experience should review first year course choices based on the Section on *Introductory Courses* at the start of the chapter on Computing.
   B. In exceptional circumstances (such as a student who has transferred from another faculty or institution), the distribution requirements in the complementary courses may be relaxed, at the discretion of the Chair of Undergraduate Studies. Alternative complementary courses may be selected in consultation with the School of Computing.
   C. ELEC courses are offered by the Faculty of Engineering and Applied Science. Special permission may be required to register. All such courses will count as 3.0 units towards degree requirements in Arts and Sciences.
Global Development Studies – Major (Arts) – Bachelor of Arts (Honours)

DEVS-M-BAH

Subject: Administered by the Department of Global Development Studies.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (30.0 units)
   A. 6.0 units in DEVS 100/6.0
   B. 6.0 units in DEVS 230/3.0, DEVS 240/3.0
   C. 6.0 units in DEVS 300/3.0, DEVS 340/3.0
   D. 6.0 units from DEVS 492-499/3.0
   E. 6.0 units from DEVS_Languages

2. OPTION COURSES (30.0 units)
   A. 12.0 units from DEVS; DEVS_Regional; DEVS_Thematic at the 300- level and above.
   B. 18.0 units from DEVS; DEVS_Regional; DEVS_Thematic at the 200-level and above.

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Note that non-DEVS courses from the DEVS_Languages, DEVS_Regional and DEVS_Thematic course lists are offered through other departments and may be subject to availability; DEVS students may not have enrolment priority.
Global Development Studies – Medial (Arts) – Bachelor of Arts (Honours)

DEVS[----]-A or [----]DEVS-A (where [----] is a second subject of study)

Subject: Administered by the Department of Global Development Studies.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (21.0 units)**
   A. 6.0 units in DEVS 100/6.0
   B. 6.0 units in DEVS 230/3.0, DEVS 240/3.0
   C. 3.0 units in DEVS 340/3.0
   D. 3.0 units from DEVS 492-499/3.0
   E. 3.0 units from DEVS; DEVS_Languages

2. **OPTION COURSES (21.0 units)**
   A. 6.0 units from DEVS; DEVS_Regional; DEVS_Thematic at the 300-level or above.
   B. 15.0 units from DEVS; DEVS_Regional; DEVS_Thematic at the 200-level or above.

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Note that non-DEVS courses from the DEVS_Languages, DEVS_Regional and DEVS_Thematic course lists are offered through other departments and may be subject to availability; DEVS students may not have enrolment priority.
Global Development Studies – Minor (Arts)

DEVS-Y

Subject: Administered by the Department of Global Development Studies.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Global Development Studies – General (Arts) – Bachelor of Arts

DEVS-G-BA

Subject: Administered by the Department of Global Development Studies.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (12.0 units)**
   - A. 6.0 units in DEVS 100/6.0
   - B. 6.0 units in DEVS 230/3.0, DEVS 240/3.0

2. **OPTION COURSES (18.0 units)**
   - A. 18.0 units from DEVS; DEVS_Regional; DEVS_Thematic at the 200-level or above

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   - A. Note that non-DEVS courses from the DEVS_Regional and DEVS_Thematic course lists are offered through other departments and may be subject to availability; DEVS students may not have enrolment priority.
Drama – Major (Arts) – Bachelor of Arts (Honours)

DRAM-M-BAH

Subject: Administered by the Department of Drama.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (18.0 units)**
   A. 6.0 units from DRAM 100/6.0 or DRAM 181/6.0
   B. 12.0 units in DRAM 201/3.0, DRAM 202/3.0, DRAM 210/6.0

2. **OPTION COURSES (42.0 units)**
   A. 9.0 units from DRAM_Robertson; DRAM_Subs
   B. 15.0 units from DRAM_Greene; IDIS 410/3.0; DRAM_Subs
   C. 18.0 units from DRAM; STSC; IDIS 410/3.0; DRAM_Subs

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. Minimum 6.0 units at the 400-level or above.
   B. Minimum 18.0 units at the 300-level or above
   C. Maximum 12.0 units from DRAM_Subs

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Designation of DRAM 219/3.0, DRAM 319/3.0, DRAM 419/3.0, STSC 309/3.0 as GREENE or ROBERTSON is made when they are offered.
   B. Designation of DRAM 500/6.0, DRAM 501/3.0, DRAM 502/3.0 as GREENE or ROBERTSON is made by student and supervisor in the course proposal.
Drama – Medial (Arts) – Bachelor of Arts (Honours)

DRAM[----]-A or [----]DRAM-A (where [----] is a second subject of study)

Subject: Administered by the Department of Drama.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (12.0 units)**
   A. 6.0 units from DRAM 100/6.0 or DRAM 181/6.0
   B. 6.0 units in DRAM 210/6.0

2. **OPTION COURSES (30.0 units)**
   A. 9.0 units from DRAM_Robertson; DRAM_Subs
   B. 12.0 units from DRAM_Greene; DRAM_Subs
   C. 9.0 units from DRAM; STSC; DRAM_Subs

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. Minimum 6.0 units at the 400-level or above
   B. Minimum 12.0 units at the 300-level or above
   C. Maximum 6.0 units may be from DRAM_Subs

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Designation of DRAM 219/3.0, DRAM 319/3.0, DRAM 419/3.0 as GREENE or ROBERTSON is made when they are offered.
   B. Designation of DRAM 500/6.0, DRAM 501/3.0, DRAM 502/3.0 as GREENE or ROBERTSON is made by student and supervisor in the course proposal.
Drama – Minor (Arts)

DRAM-Y

Subject: Administered by the Department of Drama.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Drama – General (Arts) – Bachelor of Arts

DRAM-G-BA

Subject: Administered by the Department of Drama.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES** (12.0 units)
   A. 6.0 units from DRAM 100/6.0 or DRAM 181/6.0
   B. 6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0

2. **OPTION COURSES** (18.0 units)
   A. 6.0 units from DRAM_Robertson
   B. 6.0 units from DRAM_Greene
   C. 6.0 units from DRAM

3. **SUPPORTING COURSES** (0.0 units)
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Minors are not required to take 300- or 400-level courses.
   B. Designation of DRAM 219/3.0, DRAM 319/3.0, DRAM 419/3.0 as GREENE or ROBERTSON is made when they are offered.
Environmental Biology – Specialization (Science) – Bachelor of Science (Honours)

EBIO-P-BSH

Subject: Administered by the School of Environmental Studies in partnership with the Department of Biology.

Plan: Consists of 105.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. CORE COURSES (69.0 units)
   (Core Science)
   A. 6.0 units in BIOL 102/3.0 and BIOL 103/3.0
   B. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   C. 6.0 units from (GPHY 101/3.0 and GPHY 102/3.0) or GPHY 100/6.0
   D. 3.0 units in GEOL 104/3.0
   E. 6.0 units from MATH 122/6.0 or MATH 121/6.0 or MATH 120/6.0 or MATH 111/6.0 or (MATH 123/3.0 and MATH 124/3.0)
   (Environmental Biology Core)
   F. 15.0 units in BIOL 201/3.0, BIOL 202/3.0, BIOL 205/3.0, BIOL 206/3.0, BIOL 243/3.0,
   G. 3.0 units from BIOL 301/3.0 or BIOL 338/3.0 or BIOL 339/3.0 or BIOL 341/3.0
       or BCHM 310/3.0
   H. 3.0 units from BIOL 302/3.0 or BIOL 303/3.0
   I. 3.0 units in BIOL 307/3.0
   J. 3.0 units from BIOL 330/3.0 or MBIO 218/3.0  
   (Core Social Sciences and Humanities)
   K. 3.0 units in ENSC 203/3.0
   L. 3.0 units in ENSC 390/3.0
   M. 3.0 units from PHIL 154/3.0 or PHIL 293/3.0 or PHIL 493/3.0 or RELS 235/3.0
   N. 6.0 units from ENSC 430/6.0 or ENSC 501/6.0

2. OPTION COURSES (36.0 units)
   A. 3.0 units from GEOL
   B. 3.0 units from ENSC_Specialization_Options_B
   C. 3.0 units from ENSC_Integrative_SocSci/Huma
   D. 6.0 units from BIOL 334/3.0; CHEM at the 200-level or above
   E. 21.0 units from Option List 2Ei or 2Eii
      i. Biology Research Thesis Option
         1. 9.0 units from BIOL at the 300-level or above
         2. 12.0 units from BIOL 537/12.0
      ii. Biology Seminar Option
         1. 18.0 units from BIOL at the 300-level or above
2. 3.0 units from BIOL 501-536

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. ENSC 502/12.0 may be substituted for requirement 1.N. and a further 6.0 units in electives and/or Plan requirements as approved by the Chair of Undergraduate Studies.

6. **NOTES**
   (none)
Environmental Chemistry – Specialization (Science) – Bachelor of Science (Honours)
ECHM-P-BSH

Subject: Administered by the School of Environmental Studies in partnership with the Department of Chemistry.

Plan: Consists of 102.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. CORE COURSES (90.0 units)
   (Core Science)
   A. 3.0 units from BIOL 111/3.0 or BIOL 102/3.0
   B. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   C. 6.0 units from (GPHY 101/3.0 and GPHY 102/3.0) or GPHY 100/6.0
   D. 3.0 units in GEOL 104/3.0
   E. 6.0 units from MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0)
   (Environmental Chemistry Core)
   F. 6.0 units from PHYS 104/6.0 or PHYS 106/6.0
   G. 18.0 units in CHEM 211/3.0, CHEM 212/3.0, CHEM 213/3.0, CHEM 221/3.0, CHEM 222/3.0, CHEM 223/3.0
   H. 12.0 units in CHEM 311/3.0, CHEM 312/3.0, CHEM 323/3.0, CHEM 326/3.0
   I. 3.0 units from CHEM 321/3.0 or ENSC 471/3.0
   J. 6.0 units in CHEM 397/6.0
   K. 6.0 units in CHEM 497/6.0
   (Core Social Sciences and Humanities)
   L. 3.0 units in ENSC 203/3.0
   M. 3.0 units in ENSC 390/3.0
   N. 3.0 units from PHIL 154/3.0 or PHIL 293/3.0 or PHIL 493/3.0 or RELS 235/3.0
   O. 6.0 units from ENSC 430/6.0 or ENSC 501/6.0

2. OPTION COURSES (12.0 units)
   N. 3.0 units from ENSC_Specialization_Options_A
   O. 3.0 units from GEOL
   P. 3.0 units from BIOL 201/3.0; BIOL 202/3.0; ENSC_Specialization_Options_B
   Q. 3.0 units from ENSC_Integrative_SocSci/Huma

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)
5. **SUBSTITUTIONS**
   A. ENSC 502/12.0 may be substituted for requirement **I.O.** and a further 6.0 units in electives and/or Plan requirements as approved by the Chair of Undergraduate Studies.

6. **NOTES**
   (none)
Economics – Major (Arts) – Bachelor of Arts (Honours)

ECON-M-BAH

Subject: Administered by the Department of Economics.

Plan: Consists of 66.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (27.0 units)
   A. 6.0 units from ECON 110/6.0 or (ECON 111/3.0 and ECON 112/3.0)
   B. 12.0 units in ECON 212/3.0, ECON 222/3.0, ECON 250/3.0, ECON 255/3.0
   C. 9.0 units in ECON 310/3.0, ECON 320/3.0, ECON 351/3.0

2. OPTION COURSES (33.0 units)
   A. 15.0 units from Option List 2Ci or 2Cii
      i. Seminar Option (15.0 units)
         a. 3.0 units from ECON 480-499
         b. 12.0 units from ECON at the 400-level
      ii. Thesis Option (15.0 units)
         a. 6.0 units in ECON 590/6.0
         b. 9.0 units from ECON at the 400-level
   B. 6.0 units from ECON 231/3.0; ECON 232/3.0; ECON 331/3.0; ECON 332/3.0; ECON 430/3.0
   C. 12.0 units from ECON at any level; ECON_Subs

3. SUPPORTING COURSES (6.0 units)
   A. 6.0 units from MATH 126/6.0 or MATH 121/6.0 or MATH 120/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0)

4. ADDITIONAL REQUIREMENTS
   A. No more than 6.0 units from ECON_Subs

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. At least half of the 400- and 500-level units must be obtained at Queen’s University, including the seminars ECON 480-499 unless departmental permission is secured prior to obtaining transfer units from another university.
Economics – Medial (Arts) – Bachelor of Arts (Honours)

ECON[----]-A or [----]ECON-A (where [----] is a second subject of study)

Subject: Administered by the Department of Economics.

Plan: Consists of 48.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (18.0 units)**
   A. 6.0 units from ECON 110/6.0 or (ECON 111/3.0 and ECON 112/3.0)
   B. 9.0 units in ECON 212/3.0, ECON 222/3.0, ECON 250/3.0
   C. 3.0 units from ECON 310/3.0; ECON 320/3.0; ECON 351/3.0

2. **OPTION COURSES (24.0 units)**
   A. 3.0 units from ECON 480-499
   B. 6.0 units from ECON at the 300 level or above
   C. 15.0 units from ECON at any level; ECON_Subs

3. **SUPPORTING COURSES (6.0 units)**
   A. 6.0 units from MATH 121/6.0 or MATH 126/6.0 or MATH 120/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0)

4. **ADDITIONAL REQUIREMENTS**
   A. No more than 3.0 units from ECON_Subs

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. At least half of the 400- and 500-level units must be obtained at Queen’s University, including the seminars ECON 480-499 unless departmental permission is secured prior to obtaining transfer units from another university.
Economics – Minor (Arts)

ECON-Y

Subject: Administered by the Department of Economics.

Plan: Consists of 36.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Economics – General (Arts) – Bachelor of Arts

ECON-G-BA

Subject: Administered by the Department of Economics.

Plan: Consists of 36.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (15.0 units)**
   A. 6.0 units from ECON 110/6.0 or (ECON 111/3.0 and ECON 112/3.0)
   B. 9.0 units in ECON 212/3.0, ECON 222/3.0, ECON 250/3.0

2. **OPTION COURSES (15.0 units)**
   A. 15.0 units from ECON at any level; ECON_Subs

3. **SUPPORTING COURSES (6.0 units)**
   A. 6.0 units from MATH 121/6.0 or MATH 126/6.0 or MATH 120/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0)

4. **ADDITIONAL REQUIREMENTS**
   A. No more than 3.0 units from ECON_Subs

5. **SUBSTITUTIONS**

   (none)

6. **NOTES**

   (none)
Environmental Geology – Specialization (Science) – Bachelor of Science (Honours)

ECEO-P-BSH

Subject: Administered by the School of Environmental Studies in partnership with the Department of Geology.

Plan: Consists of 102.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (84.0 units)**
   - A. 3.0 units in BIOL 111/3.0 or BIOL 102/3.0
   - B. 6.0 units in CHEM 112/6.0 or CHEM 116/6.0
   - C. 6.0 units from (GPHY 101/3.0 and GPHY 102/3.0) or GPHY 100/6.0
   - D. 6.0 units in GEOL 104/3.0 and GEOL 107/3.0
   - E. 6.0 units in MATH 121/6.0 or MATH 120/6.0
   - (Geology Core)
   - F. 6.0 units from PHYS 104/6.0 or PHYS 106/6.0 or PHYS 107/6.0 or PHYS 117/6.0
   - G. 18.0 units in GEOL 200/3.0, GEOL 221/3.0, GEOL 232/3.0, GEOL 235/3.0, GEOL 238/3.0, GEOL 249/3.0
   - H. 9.0 units from GEOL 300/3.0; GEOL 321/3.0; GEOL 337/3.0; GEOL 365/3.0
   - I. 9.0 units in GEOL at the 300 level or above
   - (Core Social Sciences and Humanities)
   - J. 3.0 units in ENSC 203/3.0
   - K. 3.0 units in ENSC 390/3.0
   - L. 3.0 units from PHIL 154/3.0 or PHIL 293/3.0 or PHIL 493/3.0 or RELS 235/3.0
   - M. 6.0 units from ENSC 430/6.0 or ENSC 501/6.0

2. **OPTION COURSES (18.0 units)**
   - A. 3.0 units from ENSC_Specialization_Options_A
   - B. 3.0 units from BIOL 201/3.0; BIOL 202/3.0; ENSC_Specialization_Options_B
   - C. 3.0 units from ENSC_Integrative_SocSci/Huma
   - D. 3.0 units from CISC 101/3.0; CISC 121/3.0; CISC 124/3.0; (CISC; MATH at the 200-level or above)
   - E. 6.0 units from BIOL; CHEM; CISC; MATH; STAT; PHYS; GPHY_Physical; GPHY_Tech/Methods

3. **SUPPORTING COURSES (0.0 units)**
   - (none)
4. ADDITIONAL REQUIREMENTS  
   (none)

5. SUBSTITUTIONS  
   A. Up to 3.0 units of Geology may be substituted for 3.0 units of the courses listed in item 2E above.  
   B. ENSC 502/12.0 may be substituted for requirement 1.M. and a further 6.0 units in electives and/or Plan requirements as approved by the Chair of Undergraduate Studies.

6. NOTES  
   (none)
Earth System Science – Specialization (Science) – Bachelor of Science (Honours)

EGPY-P-BSH

Subject: Administered by the School of Environmental Studies in partnership with the Department of Geography.

Plan: Consists of 102.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (72.0 units)**
   
   (Core Science)
   
   A. 3.0 units in BIOL 111/3.0 or BIOL 102/3.0
   B. 6.0 units in CHEM 112/6.0 or CHEM 116/6.0
   C. 6.0 units from (GPHY 101/3.0 and GPHY 102/3.0) or *GPHY 100/6.0*
   D. 3.0 units in GPHY 210/3.0
   E. 3.0 units in GEOL 104/3.0
   F. 6.0 units from MATH 122/6.0 or MATH 121/6.0 or MATH 120/6.0 or MATH 111/6.0 or (MATH 123/3.0 and MATH 124/3.0)
   
   (Earth Systems Science Core)
   
   G. 6.0 units from PHYS 104/6.0 or PHYS 106/6.0 or *PHYS 107/6.0* or PHYS 117/6.0
   
   H. 12.0 units in GPHY 208/3.0, GPHY 209/3.0, GPHY 247/3.0, (GPHY 249/3.0 or GPHY 344/3.0)
   
   I. 3.0 units from GPHY 228/3.0 or GPHY 229/3.0
   J. 3.0 units from GPHY 342/3.0 or *GISC 201/3.0* or *GISC 202/3.0*
   
   K. 6.0 units from GPHY 242/3.0; GPHY 307/3.0; GPHY 315/3.0; GPHY 347/3.0
   
   (Core Social Sciences and Humanities)
   
   L. 3.0 units in ENSC 203/3.0
   
   M. 3.0 units in ENSC 390/3.0
   
   N. 3.0 units from PHIL 154/3.0 or PHIL 293/3.0 or PHIL 493/3.0 or RELS 235/3.0
   
   O. 6.0 units from ENSC 430/6.0 or ENSC 501/6.0

2. **OPTION COURSES (30.0 units)**

   A. 3.0 units in GEOL
   B. 3.0 units from ENSC_Specialization_Options_A
   C. 3.0 units from ENSC_Integrative_SocSci/Huma
   D. 15.0 units from EGPY_Options_A
   E. 6.0 units from EGPY_Options_B

3. **SUPPORTING COURSES (0.0 units)**

   (none)
4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. ENSC 502/12.0 may be substituted for requirement 1.O, and a further 6.0 units in electives and/or Plan requirements as approved by the Chair of Undergraduate Studies.
   B. Courses as approved by the Chair of Undergraduate Studies may be substituted for those in Option 2E, above.

6. **NOTES**
   (none)
Environmental Life Science – Specialization (Science) – Bachelor of Science (Honours)

ELSC-P-BSH

Subject: Administered by the School of Environmental Studies in partnership with the Department of Biomedical and Molecular Medicine.

Plan: Consists of 105.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (75.0 units)**
   (Core Science)
   A. 6.0 units in BIOL 102/3.0 and BIOL 103/3.0
   B. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   C. 6.0 units from (GPHY 101/3.0 and GPHY 102/3.0) or GPHY 100/6.0
   D. 3.0 units in GEOL 104/3.0
   E. 3.0 units from MATH at the 100-level; STAT at the 200-300 level
   F. 3.0 units from STAT at the 200-300 level
   (Environmental Life Sciences Core)
   G. 6.0 units from PHYS 104/6.0 or PHYS 106/6.0 or PHYS 107/6.0 or PHYS 117/6.0
   H. 3.0 units in BIOL 205/3.0
   I. 6.0 units from PHGY 212/6.0 or PHGY 214/6.0
   J. 3.0 units from MICR 221/3.0 or MICR 229/3.0
   K. 6.0 units in CHEM 281/3.0 and CHEM 282/3.0
   L. 6.0 units in BCHM 315/3.0 and BCHM 316/3.0
   M. 3.0 units in PHAR 416/3.0
   (Core Social Sciences and Humanities)
   N. 3.0 units in ENSC 203/3.0
   O. 3.0 units in ENSC 390/3.0
   P. 3.0 units from PHIL 154/3.0 or PHIL 293/3.0 or PHIL 493/3.0 or RELS 235/3.0
   Q. 6.0 units from ENSC 430/6.0 or ENSC 501/6.0

2. **OPTION COURSES (30.0 units)**
   A. 3.0 units from GEOL
   B. 3.0 units from BIOL 201/3.0; BIOL 202/3.0; ENSC_Specialization_Options_B
   C. 3.0 units from ENSC_Integrative_SocSci/Huma
   D. 21.0 units from ELSC_Options

3. **SUPPORTING COURSES (0.0 units)**
   (none)
4. **ADDITIONAL REQUIREMENTS**  
   (none)

5. **SUBSTITUTIONS**  
   A. ENSC 502/12.0 may be substituted for requirement **I.Q.** and a further 6.0 units in electives and/or Plan requirements as approved by the Chair of Undergraduate Studies.

6. **NOTES**  
   (none)
Plans of study for students who were admitted to an English Plan prior to May 1, 2011

English Language and Literature – Major (Arts) – Bachelor of Arts (Honours)

ENGL-M-BAH

Subject: Administered by the Department of English Language and Literature.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (6.0 units)**
   A. 6.0 units from \( ENGL\ 110/6.0 \) or \( ENGL\ 112/6.0 \) or \( ENGL\ 160/6.0 \) (2009/10 and earlier)

2. **OPTION COURSES (54.0 units)**
   A. 18.0 units from Option List \( \text{2A}i; \text{2A}ii; \text{2A}iii \), with at least 6.0 in each of two lists.
      i. **Old English Literature and Middle English Literature (0.0 - 12.0 units)**
         a. 0.0 - 12.0 units from \( ENGL\ 211/6.0; \ ENGL\ 310/6.0; \ ENGL\ 311/6.0; \ ENGL\ 315/6.0; \ ENGL\ 335/6.0; \ ENGL\ 405/6.0; \ ENGL\ 410/6.0; \ ENGL\ 411/3.0; \ ENGL\ 412/3.0; \ ENGL\ 435/6.0; \ ENGL\ 436/3.0; \ ENGL\ 437/3.0; \ ENGL\ 305/6.0; \ ENGL\ 312/3.0; \ ENGL\ 313/3.0 \)
      ii. **Renaissance Literature (0.0 - 12.0 units)**
         a. 0.0 - 12.0 units from \( ENGL\ 256/6.0; \ ENGL\ 257/3.0; \ ENGL\ 258/3.0; \ ENGL\ 315/6.0; \ ENGL\ 321/6.0; \ ENGL\ 326/6.0; \ ENGL\ 335/6.0; \ ENGL\ 336/6.0; \ ENGL\ 420/6.0; \ ENGL\ 421/3.0; \ ENGL\ 422/3.0; \ ENGL\ 435/6.0; \ ENGL\ 436/3.0; \ ENGL\ 437/3.0; \ ENGL\ 221/6.0; \ ENGL\ 226/6.0; \ ENGL\ 227/3.0; \ ENGL\ 228/3.0; \ ENGL\ 323/3.0; \ ENGL\ 328/3.0 \)
      iii. **Restoration and 18th-Century Literature (0.0 - 12.0 units)**
         a. 0.0 - 12.0 units from \( ENGL\ 330/6.0; \ ENGL\ 335/6.0; \ ENGL\ 336/6.0; \ ENGL\ 352/6.0; \ ENGL\ 343/6.0; \ ENGL\ 346/3.0; \ ENGL\ 435/6.0; \ ENGL\ 436/3.0; \ ENGL\ 437/3.0; \ ENGL\ 241/6.0; \ ENGL\ 341/6.0; \ ENGL\ 342/3.0; \ ENGL\ 343/3.0; \ ENGL\ 345/6.0; \ ENGL\ 346/6.0 \)
   B. 24.0 units from at least four of Option List \( \text{2Bi}; \text{2Bii}; \text{2Biii}; \text{2Biv}; \text{2Bv} \), with at least 6.0 in each of three lists.
      i. **Romantic Literature (0.0 - 9.0 units)**
         a. 0.0 - 9.0 units from \( ENGL\ 340/6.0; \ ENGL\ 347/6.0; \ ENGL\ 349/6.0; \ ENGL\ 352/6.0; \ ENGL\ 440/6.0; \ ENGL\ 441/3.0; \ ENGL\ 442/3.0; \ ENGL\ 445/6.0; \ ENGL\ 446/3.0; \ ENGL\ 447/3.0; \ ENGL\ 455/6.0; \)
ENGL 456/3.0; ENGL 457/3.0; ENGL 250/6.0; ENGL 350/6.0; ENGL 353/3.0; ENGL 354/3.0

ii. *Victorian Literature (0.0 - 9.0 units)*
   a. 0.0 - 9.0 units from ENGL 347/6.0; ENGL 349/6.0; ENGL 351/6.0; ENGL 352/6.0; ENGL 356/6.0; ENGL 357/6.0; ENGL 445/6.0; ENGL 446/3.0; ENGL 447/3.0; ENGL 450/6.0; ENGL 451/3.0; ENGL 452/3.0; ENGL 455/6.0; ENGL 456/3.0; ENGL 457/3.0; ENGL 255/6.0; ENGL 355/6.0; ENGL 358/3.0; ENGL 359/3.0

iii. *Modern British Literature and American Literature (0.0 - 9.0 units)*
   a. 0.0 - 9.0 units from ENGL 216/6.0; ENGL 223/3.0; ENGL 244/3.0; ENGL 245/3.0; ENGL 347/6.0; ENGL 349/6.0; ENGL 360/6.0; ENGL 365/6.0; ENGL 369/6.0; ENGL 370/6.0; ENGL 375/6.0; ENGL 460/6.0; ENGL 461/3.0; ENGL 462/3.0; ENGL 464/6.0; ENGL 470/6.0; ENGL 471/3.0; ENGL 472/3.0; ENGL 485/6.0; ENGL 486/3.0; ENGL 487/3.0; ENGL 488/3.0; ENGL 489/3.0; ENGL 260/6.0; ENGL 261/3.0; ENGL 262/3.0; ENGL 265/3.0; ENGL 269/6.0; ENGL 275/6.0; ENGL 361/3.0; ENGL 362/3.0; ENGL 366/6.0; ENGL 367/3.0; ENGL 368/3.0; ENGL 377/3.0; ENGL 378/3.0

iv. *Post-Colonial, Canadian, and Comparative Literatures (0.0 - 9.0 units)*
   a. 0.0 - 9.0 units from ENGL 215/6.0; ENGL 217/6.0; ENGL 219/6.0; ENGL 283/6.0; ENGL 284/3.0; ENGL 285/3.0; ENGL 380/6.0; ENGL 382/6.0; ENGL 389/6.0; ENGL 465/6.0; ENGL 466/3.0; ENGL 467/3.0; ENGL 475/6.0; ENGL 476/3.0; ENGL 477/3.0; ENGL 480/6.0; ENGL 481/3.0; ENGL 482/3.0; ENGL 485/6.0; ENGL 486/3.0; ENGL 487/3.0; ENGL 488/3.0; ENGL 489/3.0; ENGL 280/6.0; ENGL 282/6.0; ENGL 381/3.0; ENGL 383/3.0; ENGL 384/3.0; ENGL 385/3.0; ENGL 386/3.0; ENGL 388/3.0

v. *Literary Theory and Literary Criticism (0.0 - 9.0 units)*
   a. 0.0 - 9.0 units from ENGL 292/6.0; ENGL 490/6.0; ENGL 491/3.0; ENGL 492/3.0; ENGL 493/3.0; ENGL 494/3.0; ENGL 495/6.0; ENGL 496/3.0; ENGL 497/3.0; ENGL 498/3.0; ENGL 499/3.0; ENGL 393/6.0; ENGL 394/6.0; ENGL 396/3.0; ENGL 397/3.0; ENGL 398/3.0; ENGL 399/3.0

C. 12.0 units ENGL at the 200-level or above; ENGL_Subs

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. Maximum 12.0 units from ENGL_Subs.
   B. Minimum 24.0 units must be taken at the 300-level or above.

5. **SUBSTITUTIONS**
   (none)
6. NOTES
   A. ENGL 292/6.0 (Option List 2Bv) or 6.0 units within the range of ENGL 495 to ENGL 499 is recommended for majors.
English Language and Literature – Medial (Arts) – Bachelor of Arts (Honours)

ENGL[----]-A or [----]ENGL-A (where [----] is a second subject of study)

Subject: Administered by the Department of English Language and Literature.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (6.0 units)
   A. 6.0 units from ENGL 110/6.0 or ENGL 112/6.0 or ENGL 160/6.0 (2009/10 and earlier)

2. OPTION COURSES (36.0 units)
   A. 12.0 units from Option List 2Ai; 2Aii; 2Aiii, with either 6.0 in each of two lists, or at least 3.0 in each of three lists.
   i. Old English Literature and Middle English Literature (0.0 - 6.0 units)
      a. 0.0 - 6.0 units from ENGL 211/6.0; ENGL 310/6.0; ENGL 311/6.0; ENGL 315/6.0; ENGL 335/6.0; ENGL 405/6.0; ENGL 410/6.0; ENGL 411/3.0; ENGL 412/3.0; ENGL 435/6.0; ENGL 436/3.0; ENGL 437/3.0; ENGL 305/6.0; ENGL 312/3.0; ENGL 313/3.0
   ii. Renaissance Literature (0.0 - 6.0 units)
      a. 0.0 - 6.0 units from ENGL 256/6.0; ENGL 257/3.0; ENGL 258/3.0; ENGL 315/6.0; ENGL 321/6.0; ENGL 326/6.0; ENGL 335/6.0; ENGL 336/6.0; ENGL 420/6.0; ENGL 421/3.0; ENGL 422/3.0; ENGL 435/6.0; ENGL 436/3.0; ENGL 437/3.0; ENGL 221/6.0; ENGL 226/6.0; ENGL 227/3.0; ENGL 228/3.0; ENGL 323/3.0; ENGL 328/3.0
   iii. Restoration and 18th-Century Literature (0.0 - 6.0 units)
      a. 0.0 - 6.0 units from ENGL 330/6.0; ENGL 335/6.0; ENGL 336/6.0; ENGL 352/6.0; ENGL 430/6.0; ENGL 431/3.0; ENGL 432/3.0; ENGL 435/6.0; ENGL 436/3.0; ENGL 437/3.0; ENGL 241/6.0; ENGL 341/6.0; ENGL 342/3.0; ENGL 343/3.0; ENGL 345/6.0; ENGL 346/6.0
   B. 18.0 units from at least three of Option List 2Bi; 2Bii; 2Biii; 2Biv; 2Bv, with at least 6.0 in each of two lists.
   i. Romantic Literature (0.0 - 9.0 units)
      a. 0.0 - 9.0 units from ENGL 340/6.0; ENGL 347/6.0; ENGL 349/6.0; ENGL 352/6.0; ENGL 440/6.0; ENGL 441/3.0; ENGL 442/3.0; ENGL 445/6.0; ENGL 446/3.0; ENGL 447/3.0; ENGL 455/6.0; ENGL 456/3.0; ENGL 457/3.0; ENGL 250/6.0; ENGL 350/6.0; ENGL 353/3.0; ENGL 354/3.0
ii. Victorian Literature (0.0 - 9.0 units)
   a. 0.0 - 9.0 units from ENGL 347/6.0; ENGL 349/6.0; ENGL 351/6.0; 
      ENGL 352/6.0; ENGL 356/6.0; ENGL 357/6.0; ENGL 445/6.0; 
      ENGL 446/3.0; ENGL 447/3.0; ENGL 450/6.0; ENGL 451/3.0; 
      ENGL 452/3.0; ENGL 455/6.0; ENGL 456/3.0; ENGL 457/3.0; 
      ENGL 255; ENGL 355/6.0; ENGL 358/3.0; ENGL 359/3.0

iii. Modern British Literature and American Literature (0.0 - 9.0 units)
   a. 0.0 - 9.0 units from ENGL 216/6.0; ENGL 223/3.0; ENGL 244/3.0; 
      ENGL 245/3.0; ENGL 347/6.0; ENGL 349/6.0; ENGL 360/6.0; 
      ENGL 365/6.0; ENGL 369/6.0; ENGL 370/6.0; ENGL 375/6.0; 
      ENGL 460/6.0; ENGL 461/3.0; ENGL 462/3.0; ENGL 464/6.0; 
      ENGL 470/6.0; ENGL 471/3.0; ENGL 472/3.0; ENGL 485/6.0; 
      ENGL 486/3.0; ENGL 487/3.0; ENGL 488/3.0; ENGL 489/3.0; 
      ENGL 260/6.0; ENGL 261/3.0; ENGL 262/3.0; ENGL 265/3.0; 
      ENGL 269/6.0; ENGL 275/6.0; ENGL 361/3.0; ENGL 362/3.0; 
      ENGL 366/6.0; ENGL 367/3.0; ENGL 368/3.0; ENGL 377/3.0; 
      ENGL 378/3.0

iv. Post-Colonial, Canadian, and Comparative Literatures (0.0 - 9.0 units)
   a. 0.0 - 9.0 units from ENGL 215/6.0; ENGL 217/6.0; ENGL 219/6.0; 
      ENGL 283/6.0; ENGL 284/3.0; ENGL 285/3.0; ENGL 380/6.0; 
      ENGL 382/6.0; ENGL 389/6.0; ENGL 465/6.0; ENGL 466/3.0; 
      ENGL 467/3.0; ENGL 475/6.0; ENGL 476/3.0; ENGL 477/3.0; 
      ENGL 484/3.0; ENGL 481/3.0; ENGL 482/3.0; ENGL 485/6.0; 
      ENGL 486/3.0; ENGL 487/3.0; ENGL 488/3.0; ENGL 489/6.0; 
      ENGL 280/6.0; ENGL 282/6.0; ENGL 381/3.0; ENGL 383/3.0; 
      ENGL 384/3.0; ENGL 385/3.0; ENGL 386/3.0; ENGL 388/3.0

v. Literary Theory and Literary Criticism (0.0 - 9.0 units)
   a. 0.0 - 9.0 units from ENGL 292/6.0; ENGL 490/6.0; ENGL 491/3.0; 
      ENGL 492/3.0; ENGL 493/3.0; ENGL 494/3.0; ENGL 495/6.0; 
      ENGL 496/3.0; ENGL 497/3.0; ENGL 498/3.0; ENGL 499/3.0; ENGL 
      393/6.0; ENGL 394/6.0; ENGL 396/3.0; ENGL 397/3.0; ENGL 
      398/3.0; ENGL 399/3.0

C. 6.0 units ENGL at the 200-level or above; ENGL_Subs

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   A. Students may not take any more than 6.0 units from ENGL_Subs.
   B. At least 12.0 units must be taken at the 300-level or above.

5. SUBSTITUTIONS
   (none)
6. NOTES
   A. ENGL 292/6.0 (Option List 2Bv) or 6.0 units within the range of ENGL 495 to ENGL 499 is recommended for medials.
English Language and Literature – Minor (Arts)

ENGL-Y

Subject: Administered by the Department of English Language and Literature.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

English Language and Literature – General (Arts) – Bachelor of Arts

ENGL-G-BA

Subject: Administered by the Department of English Language and Literature.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. CORE COURSES (6.0 units)
   A. 6.0 units from ENGL 110/6.0 or ENGL 112/6.0 or ENGL 160/6.0 (2009/10 and earlier)

2. OPTION COURSES (24.0 units)
   A. 6.0 units from Option List 2Ai; 2Aii
      i. Old English Literature and Middle English Literature (0.0-6.0 units)
         a. 0.0 - 6.0 units from ENGL 211/6.0; ENGL 310/6.0; ENGL 311/6.0; ENGL 315/6.0; ENGL 335/6.0; ENGL 305/6.0; ENGL 312/3.0; ENGL 313/3.0
      ii. Renaissance Literature (0.0-6.0 units)
         a. 0.0 - 6.0 units from ENGL 256/6.0; ENGL 257/3.0; ENGL 258/3.0; ENGL 315/6.0; ENGL 321/6.0; ENGL 326/6.0; ENGL 335/6.0; ENGL 336/6.0; ENGL 221/6.0; ENGL 226/6.0; ENGL 227/3.0; ENGL 228/3.0; ENGL 323/3.0; ENGL 328/3.0
   B. 6.0 units from Option List 2Bi; 2Bii; 2Biii
      i. Restoration and 18th-Century Literature (0.0-6.0 units)
         a. 0.0 - 6.0 units from ENGL 330/6.0; ENGL 335/6.0; ENGL 336/6.0; ENGL 352/6.0; ENGL 241/6.0; ENGL 341/6.0; ENGL 342/3.0; ENGL 343/3.0; ENGL 345/6.0; ENGL 346/6.0
      ii. Romantic Literature (0.0-6.0 units)
         a. 0.0 - 6.0 units from ENGL 340/6.0; ENGL 347/6.0; ENGL 349/6.0; ENGL 352/6.0; ENGL 250/6.0; ENGL 350/6.0; ENGL 353/3.0; ENGL 354/3.0
iii. **Victorian Literature (0.0-6.0 units)**
   a. 0.0 - 6.0 units from ENGL 347/6.0; ENGL 349/6.0; ENGL 351/6.0; ENGL 352/6.0; ENGL 356/6.0; ENGL 357/6.0; ENGL 255/6.0; ENGL 355/6.0; ENGL 358/3.0; ENGL 359/3.0

C. 6.0 units from Option List 2Ci; 2Cii

i. **Modern British Literature and American Literature (0.0-6.0 units)**
   a. 0.0 - 6.0 units from ENGL 216/6.0; ENGL 223/3.0; ENGL 244/3.0; ENGL 245/3.0; ENGL 347/6.0; ENGL 349/6.0; ENGL 360/6.0; ENGL 365/6.0; ENGL 369/6.0; ENGL 370/6.0; ENGL 375/6.0; ENGL 260/6.0; ENGL 261/3.0; ENGL 262/3.0; ENGL 265/3.0; ENGL 269/6.0; ENGL 275/6.0; ENGL 361/3.0; ENGL 362/3.0; ENGL 366/6.0; ENGL 367/3.0; ENGL 368/3.0; ENGL 377/3.0; ENGL 378/3.0

ii. **Post-Colonial, Canadian, and Comparative Literatures (0.0-6.0 units)**
   a. 0.0 - 6.0 units from ENGL 215/6.0; ENGL 217/6.0; ENGL 219/6.0; ENGL 283/6.0; ENGL 284/3.0; ENGL 285/3.0; ENGL 380/6.0; ENGL 382/6.0; ENGL 389/6.0; ENGL 280/6.0; ENGL 282/6.0; ENGL 381/3.0; ENGL 383/3.0; ENGL 384/3.0; ENGL 385/3.0; ENGL 386/3.0; ENGL 388/3.0

D. 6.0 units ENGL at the 200-level or above; ENGL_Subs

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. Maximum 6.0 units from ENGL_Subs.

5. **SUBSTITUTIONS**
   A. An additional 6.0 units from ENGL at the 200-level or above may be substituted for 2B (Option List 2Bi; 2Bi; 2Biii).

6. **NOTES**
   A. ENGL 292/6.0 is usually restricted to students in Medial or Major Plans. Minor/General students may register in it only subject to availability.
Plans of study for students who were admitted to an English Plan after May 1, 2011

English Language and Literature – Major (Arts) – Bachelor of Arts (Honours)

ENGL-M-BAH

Subject: Administered by the Department of English Language and Literature.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (39.0 units)**
   A. 6.0 units in ENGL 100/6.0 (or *ENGL 110/6.0 or ENGL 112/6.0 or ENGL 160/6.0* [2009/10 and earlier])
   B. 6.0 units in ENGL 200/6.0
   C. 3.0 units in ENGL 290/3.0
   D. 6.0 units from ENGL 305-339
   E. 6.0 units from ENGL 340-359
   F. 6.0 units from ENGL 360-389
   G. 3.0 units from ENGL 405-459
   H. 3.0 units from ENGL 460-499

2. **OPTION COURSES (21.0 units)**
   A. 9.0 units from ENGL at the 400-level; ENGL 590/3.0
   B. 12.0 units from ENGL at the 200-level or above; ENGL_Subs

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. Maximum 12.0 units from ENGL_Subs

5. **SUBSTITUTIONS**
   A. Students who fulfill Core course requirement **1A** with *ENGL 110/6.0* must substitute, for Core courses **1B** and **1C**, an additional 9.0 units of Option courses from ENGL at the 200-level or above.
   B. Students who fulfill Core course requirement **1A** with *ENGL 112/6.0* or ENGL 160/6.0 (2009/10 or earlier) must substitute, for Core course **1C**, an additional 3.0 units of Option courses from ENGL at the 200-level or above.
6. NOTES
   A. It is recommended that in their second year, where possible, Majors take 21.0 units from ENGL at the 200 level.
   B. ENGL 292/6.0 or 6.0 units from within the range of ENGL 495 to ENGL 499 is recommended for Majors.
   C. Access to courses at the 300- and 400-levels is generally restricted to those students who need them to fulfill their core requirements. Students who wish to fulfill requirement 2A by taking Option courses at the 300- or 400-level should note that access is extremely limited, and will only be granted subject to availability.
English Language and Literature – Medial (Arts) – Bachelor of Arts (Honours)

ENGL[-----]-A or [-----]ENGL-A (where [-----] is a second subject of study)

Subject: Administered by the Department of English Language and Literature.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (27.0 units)**
   A. 6.0 units in ENGL 100/6.0 (or ENGL 110/6.0 or ENGL 112/6.0 or ENGL 160/6.0 [2009/10 and earlier])
   B. 6.0 units in ENGL 200/6.0
   C. 3.0 units in ENGL 290/3.0
   D. 6.0 units from ENGL 305-339
   E. 6.0 units from ENGL 340-389

2. **OPTION COURSES (15.0 units)**
   A. 6.0 units from ENGL at the 400-level; ENGL 590/3.0
   B. 3.0 units from ENGL at the 200-level or above
   C. 6.0 units from ENGL at the 200-level or above; ENGL_Subs

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. Maximum 6.0 units from ENGL_Subs.

5. **SUBSTITUTIONS**
   A. Students who fulfill Core course requirement **1A** with ENGL 110/6.0 must substitute, for Core courses **1B** and **1C**, an additional 9.0 units of Option courses from ENGL at the 200-level or above.
   B. Students who fulfill Core course requirement **1A** with **ENGL 112/6.0 or ENGL 160/6.0 (2009/10 or earlier)** must substitute, for Core course **1C**, an additional 3.0 units of Option courses from ENGL at the 200-level or above.

6. **NOTES**
   A. ENGL 292/6.0 or 6.0 units from within the range of ENGL 495 to 499 is recommended for Medials.
   B. Access to courses at the 300- and 400-levels is generally restricted to those students who need them to fulfill their core requirements. Students who wish to fulfill requirement **2A** or **2B** by taking an Option course at the 300- or 400-level
should note that access is extremely limited, and will only be granted subject to availability.
English Language and Literature – Minor (Arts)

ENGL-Y

Subject: Administered by the Department of English Language and Literature.
Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

English Language and Literature – General (Arts) – Bachelor of Arts

ENGL-G-BA

Subject: Administered by the Department of English Language and Literature.
Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. CORE COURSES (12.0 units)
   A. 6.0 units in ENGL 100/6.0 (or ENGL 110/6.0 or ENGL 112/6.0 or ENGL 160/6.0 [2009/10 and earlier])
   B. 6.0 units in ENGL 200/6.0

2. OPTION COURSES (18.0 units)
   A. 12.0 units from ENGL at the 200-level or above
   B. 6.0 units from ENGL at the 200-level or above; ENGL_Subs

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   A. Maximum 6.0 units from ENGL_Subs.

5. SUBSTITUTIONS
   A. Students who fulfill Core course requirement 1A with ENGL 110/6.0 must substitute, for Core course 1B, an additional 6.0 units of Option courses from ENGL at the 200-level or above.

6. NOTES
   A. 200-level Option courses available to Minors are organized into the following categories: Surveys (201-229); Genre (230-249); Authors in Context (250-269); Issues and Themes (270-289). It is recommended that students take courses from a range of these categories.
B. ENGL 292/6.0 is usually restricted to students in Medial or Major Plans. Minor/General students may register in it only subject to availability.

C. ENGL courses at the 300-level and above are usually restricted to students in Medial or Major Plans. Minor/General students may register in a maximum of 6.0 units at the 300-level or above subject to availability, but must have a minimum grade of B+ in at least 18.0 units from ENGL at the 100- and 200-levels in order to do so.
Environmental Science – Major (Science) – Bachelor of Science (Honours)

ENSC-M-BSH

Subject: Administered by the School of Environmental Studies.

Plan: Consists of 72.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (33.0 units)**
   (core science)
   A. 3.0 units from BIOL 111/3.0 or BIOL 102/3.0
   B. 6.0 units from (GPHY 101/3.0 and GPHY 102/3.0) or GPHY 100/6.0
   C. 3.0 units in GEOL 104/3.0
   D. 6.0 units in ENSC 201/3.0 and ENSC 301/3.0
   (core social sciences and humanities)
   E. 3.0 units in ENSC 203/3.0
   F. 3.0 units in ENSC 390/3.0
   G. 3.0 units from PHIL 154/3.0 or PHIL 293/3.0 or PHIL 493/3.0 or RELS 235/3.0
   H. 6.0 units from ENSC 430/6.0 or ENSC 501/6.0

2. **OPTION COURSES (27.0 units)**
   (integrative science)
   A. 3.0 units from GEOL
   B. 3.0 units from GPHY 210/3.0; GPHY 304/3.0; GPHY 306/3.0; GPHY 314/3.0
   C. 6.0 units from ENSC_Integrative_Science at the 300-level or above
   D. 6.0 units from ENSC_Integrative_Science
   (integrative social sciences and humanities)
   E. 9.0 units from ENSC_Integrative_SocSci/Huma

3. **SUPPORTING COURSES (12.0 units)**
   A. 6.0 units in CHEM 112/6.0 or CHEM 116/6.0
   B. 6.0 units from MATH or STAT

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. ENSC 502/12.0 may be substituted for requirement 1.H. and a further 6.0 units in electives and/or Plan requirements as approved by the Chair of Undergraduate Studies.
6. **NOTES**
   
   A. Students are advised to complete at least 15.0 units from the core and integrative science courses in their first year. Deferring 100-level courses to the final year of study is strongly discouraged.
Environmental Studies – Medial (Arts) – Bachelor of Arts (Honours)

ENVS[----]-A or [----]ENVS-A (where [----] is a second subject of study)

Subject: Administered by the School of Environmental Studies.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (27.0 units)
   (Core Science)
   A. 3.0 units in BIOL 111/3.0 or BIOL 103/3.0
   B. 6.0 units from (GPHY 101/3.0 and GPHY 102/3.0) or GPHY 100/6.0
   C. 3.0 units in GEOL 104/3.0 or GEOL 106/3.0 or GEOL 107/3.0
   (Core Social sciences and Humanities)
   D. 3.0 units in ENSC 203/3.0
   E. 3.0 units in ENSC 390/3.0
   F. 3.0 units from PHIL 154/3.0 or PHIL 293/3.0 or PHIL 493/3.0 or RELS 235/3.0
   G. 6.0 units from ENSC 430/6.0 or ENSC 501/6.0

2. OPTION COURSES (15.0 units)
   (Integrative Science)
   A. 3.0 units from MATH or STAT or CHEM at the 100-level or above
   B. 6.0 units from ENSC_Integrative_Science
   (Integrative Social sciences and Humanities)
   C. 6.0 units from ENSC_Integrative_SocSci/Huma

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   A. ENSC 502/12.0 may be substituted for requirement 1.G. and a further 6.0 units in electives and/or Plan requirements as approved by the Chair of Undergraduate Studies.

6. NOTES
   A. Students are advised to complete at least 15.0 units from the core and integrative science courses in their first year. Deferring 100-level courses to the final year of study is strongly discouraged.
Environmental Studies – Minor (Arts)
ENVS-Y

Subject: Administered by the School of Environmental Studies.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Environmental Studies – General (Arts) – Bachelor of Arts
ENVS-G-BA

Subject: Administered by the School of Environmental Studies.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (18.0 units)**
   A. 3.0 units from BIOL 111/3.0 or BIOL 102/3.0
   B. 3.0 units in GPHY 102/3.0
   C. 3.0 units from GEOL 104/3.0 or GEOL 106/3.0 or GEOL 107/3.0
   D. 3.0 units in ENSC 203/3.0
   E. 3.0 units in ENSC 390/3.0
   F. 3.0 units from PHIL 154/3.0 or PHIL 293/3.0 or PHIL 493/3.0 or RELS 235/3.0

2. **OPTION COURSES (12.0 units)**
   A. 12.0 units from ENSC_Integrative_SocSci/Huma

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   (none)
Environmental Toxicology – Specialization (Science) – Bachelor of Science (Honours)

ETOXP-BSH

Subject: Administered by the School of Environmental Studies

Plan: Consists of 108.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (75.0 units)**

   *(Core Science)*
   - A. 6.0 units in BIOL 102/3.0 and BIOL 103/3.0
   - B. 6.0 units in CHEM 112/6.0 or CHEM 116/6.0
   - C. 6.0 units from (GPHY 101/3.0 and GPHY 102/3.0) or *GPHY 100/6.0*
   - D. 3.0 units in GEOL 104/3.0
   - E. 6.0 units from MATH 122/6.0 or MATH 121/6.0 or MATH 120/6.0 or MATH 111/6.0 or (MATH 123/3.0 and MATH 124/3.0)

   *(Environmental Toxicology Core)*
   - F. 12.0 units in BIOL 201/3.0, BIOL 202/3.0, BIOL 205/3.0, BIOL 243/3.0
   - G. 9.0 units in CHEM 213/3.0, CHEM 281/3.0, CHEM 282/3.0
   - H. 3.0 units in ENSC 201/3.0
   - I. 3.0 units in CHEM 326/3.0
   - J. 3.0 units in ENSC 325/3.0
   - K. 3.0 units in PHAR 416/3.0

   *(Core Social Sciences and Humanities)*
   - L. 3.0 units in ENSC 203/3.0
   - M. 3.0 units in ENSC 390/3.0
   - N. 3.0 units from PHIL 154/3.0 or PHIL 293/3.0 or PHIL 493/3.0 or RELS 235/3.0
   - O. 6.0 units from ENSC 430/6.0 or ENSC 501/6.0

2. **OPTION COURSES (33.0 units)**

   A. 3.0 units from GEOL
   - B. 3.0 units from ENSC_Specialization_Options_B
   - C. 3.0 units from ENSC_Integrative_SocSci/Huma
   - D. 18.0 units from ETOX_Options
   - E. 6.0 units from one of Option List 2Ei – 2Eiii
     - i. *Biochemistry Option (6.0 units)*
       1. 6.0 units from BCHM 310/6.0 or (BCHM 315/3.0 and BCHM 316/3.0)
     - ii. *Molecular Biology and Biochemistry Option (6.0 units)*
       1. 6.0 units in MBIO 218/3.0 and BIOL 334/3.0
iii. **Physiology-Ecology Option (6.0 units)**
   1. 3.0 units from BIOL 301/3.0 or BIOL 330/3.0 or BIOL 338/3.0 or
       BIOL 339/3.0 or BIOL 341/3.0
   2. 3.0 units from BIOL 302/3.0 or BIOL 303/3.0

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. A course in statistics, as approved by the Chair of Undergraduate Studies, may be
      substituted for BIOL 243/3.0 in Core 1.F.
   B. ENSC 502/12.0 may be substituted for requirement 1.O. and a further 6.0 units in
      electives and/or Plan requirements as approved by the Chair of Undergraduate
      Studies.

6. **NOTES**
   (none)
Film and Media – Major (Arts) – Bachelor of Arts (Honours)

FILM-M-BAH

Subject: Administered by the Department of Film and Media.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (24.0 units)**
   A. 6.0 units from FILM 110/6.0 or (FILM 104/3.0 and FILM 106/3.0)
   B. 12.0 units from FILM 206/3.0; FILM 216/3.0; FILM 226/3.0; FILM 236/3.0; FILM 240/3.0; *FILM 215/6.0; FILM 225/6.0*
   C. 6.0 units in FILM 250/6.0

2. **OPTION COURSES (36.0 units)**
   A. 18.0 units from FILM at the 300-level or above; IDIS 311/3.0; STSC 300/3.0
   B. 6.0 units from FILM at the 400-level or above; IDIS 410/3.0
   C. 12.0 units from FILM

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. Subject to approval, up to 6.0 unit at the 100-level or above in courses focussed on study in the arts or media for option 2C above.
   B. DEVS 305/6.0 may be substituted for 3.0 option units in 2A and 3.0 option units in 2B.

6. **NOTES**
   (none)
Film and Media – Medial (Arts) – Bachelor of Arts (Honours)

FILM[----]-A or [----]FILM-A (where [----] is a second subject of study)

Subject: Administered by the Department of Film and Media.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (24.0 units)**
   
   **A.** 6.0 units from FILM 110/6.0 or (FILM 104/3.0 and FILM 106/3.0)
   
   **B.** 12.0 units from FILM 206/3.0; FILM 216/3.0; FILM 226/3.0; FILM 236/3.0; FILM 240/3.0; *FILM 215/6.0; FILM 225/6.0*
   
   **C.** 6.0 units in FILM 250/6.0

2. **OPTION COURSES (18.0 units)**
   
   **A.** 12.0 units from FILM at the 300-level or above; IDIS 311/3.0; STSC 300/3.0
   
   **B.** 6.0 units from FILM at the 400-level or above; IDIS 410/3.0

3. **SUPPORTING COURSES (0.0 units)**
   
   (none)

4. **ADDITIONAL REQUIREMENTS**
   
   (none)

5. **SUBSTITUTIONS**
   
   **A.** DEVS 305/6.0 may be substituted for 3.0 option units in **2A** and 3.0 option units in **2B**.

6. **NOTES**
   
   (none)
Film and Media – Minor (Arts)

FILM-Y

Subject: Administered by the Department of Film and Media.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Film and Media – General (Arts) – Bachelor of Arts

FILM-G-BA

Subject: Administered by the Department of Film and Media.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (12.0 units)**
   A. 6.0 units from FILM 110/6.0 or (FILM 104/3.0 and FILM 106/3.0)
   B. 6.0 units in FILM 250/6.0

2. **OPTION COURSES (18.0 units)**
   A. 6.0 units from FILM 216/3.0; FILM 226/3.0; FILM 236/3.0; FILM 240/3.0
   B. 12.0 units from FILM at the 300-level or above; IDIS 311/3.0; STSC 300/3.0

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   (none)
French Studies – Major (Arts) – Bachelor of Arts (Honours)

FREN-M-BAH

Subject: Administered by the Department of French Studies.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (27.0 units)**
   A. 6.0 units from FREN 110/6.0 or FREN 100/6.0 or (FREN 101/3.0 and FREN 102/3.0)
   B. 12.0 units in FREN 212/6.0 and FREN 220/6.0
   C. 6.0 units in FREN 320/3.0 and FREN 344/3.0
   D. 3.0 units in FREN 444/3.0

2. **OPTION COURSES (33.0 units)**
   (Medieval, Renaissance, 17th- and 18th-Century Literatures)
   A. 3.0 units from FREN 304/3.0; FREN 306/3.0; FREN 315/3.0; FREN 387/3.0; FREN 388/3.0; FREN 395/3.0; FREN 404/3.0; FREN 405/3.0; FREN 418/3.0; FREN 487/3.0; FREN 488/3.0
   (Modern French Literature and Culture)
   B. 3.0 units from FREN 305/3.0; FREN 322/3.0; FREN 323/3.0; FREN 324/3.0; FREN 325/3.0; FREN 327/3.0; FREN 417/3.0; FREN 423/3.0; FREN 424/3.0; FREN 425/3.0; FREN 427/3.0
   (Québec Literature and Culture)
   C. 3.0 units from FREN 312/3.0; FREN 313/3.0; FREN 333/3.0; FREN 334/3.0; FREN 335/3.0; FREN 391/3.0; FREN 396/3.0; FREN 434/3.0; FREN 435/3.0; FREN 491/3.0
   (Francophone Literature and Culture)
   D. 3.0 units from FREN 351/3.0; FREN 451/3.0; FREN 477/3.0
   (Linguistics)
   E. 3.0 units from FREN 353/3.0; FREN 363/3.0; FREN 373/3.0; FREN 393/3.0; FREN 433/3.0; FREN 463/3.0; FREN 473/3.0; FREN 493/3.0
   (General French Options)
   F. 6.0 units from FREN_Maj_Option_Lv12
   G. 12.0 units from FREN at the 300-level or above

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. In addition to FREN 444/3.0, at least 6.0 units in FREN must be taken at the 400-level.
5. **SUBSTITUTIONS**
   A. Those students who spend their third-year on exchange at a French-speaking university or those who are fluent in French are not required to take FREN 320/3.0. An alternate FREN course may be substituted with the permission of the Undergraduate Chair.

6. **NOTES**
   A. Only one of FREN 283/3.0 and 384/3.0 may be used towards the requirements of this Plan.
   B. Students should note that P-level courses may not be used towards the requirements of this Plan. Students may not register for, or receive credit for courses that are at a level lower than their current level of ability. This is particularly true of the P-level and 100-level courses, many of which contain One-Way Exclusions, and of the Communication and Culture courses, which should be taken in the sequence: FREN P16/3.0, FREN P17/3.0, FREN 118/3.0, FREN 219/3.0, FREN 320/3.0.
French Studies – Medial (Arts) – Bachelor of Arts (Honours)

FREN[----]-A or [----]FREN-A (where [----] is a second subject of study)

Subject: Administered by the Department of French Studies.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (27.0 units)
   A. 6.0 units from FREN 110/6.0 or FREN 100/6.0 or (FREN 101/3.0 and FREN 102/3.0)
   B. 12.0 units in FREN 212/6.0 and FREN 220/6.0
   C. 6.0 units in FREN 320/3.0 and FREN 344/3.0
   D. 3.0 units in FREN 444/3.0

2. OPTION COURSES (15.0 units)
   A. 6.0 units from FREN_Med_Option_Lvl 2
   B. 3.0 units from FREN at the 400-level or above
   C. 6.0 units from FREN at the 300-level or above.

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   A. Those students who spend their third-year on exchange at a French-speaking university or those who are fluent in French are not required to take FREN 320/3.0. An alternate FREN course may be substituted with the permission of the Undergraduate Chair.

6. NOTES
   A. Only one of FREN 283/3.0 and FREN 384/3.0 may be used towards the requirements of this Plan.
   B. Students should note that P-level courses may not be used towards the requirements of this Plan. Students may not register for, or receive credit for courses that are at a level lower than their current level of ability. This is particularly true of the P-level and 100-level courses, many of which contain One-Way Exclusions, and of the Communication and Culture courses, which should be taken in the sequence: FREN P16/3.0, FREN P17/3.0, FREN 118/3.0, FREN 219/3.0, FREN 320/3.0.
French Studies – Minor (Arts)
FREN-Y

Subject: Administered by the Department of French Studies.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

French Studies – General (Arts) – Bachelor of Arts
FREN-G-BA

Subject: Administered by the Department of French Studies.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. CORE COURSES (12.0 units)
   A. 6.0 units from FREN 100/6.0 or FREN 110/6.0 or (FREN 101/3.0 and FREN 102/3.0)
   B. 6.0 units in FREN 221/6.0 or FREN 220/6.0

2. OPTION COURSES (18.0 units)
   A. 12.0 units from FREN at the 300-level
   B. 6.0 units from FREN at the 200-level

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Students should note that P-level courses may not be used towards the requirements of this Plan. Students may not register for, or receive credit for courses that are at a level lower than their current level of ability. This is particularly true of the P-level and 100-level courses, many of which contain One-Way Exclusions, and of the Communication and Culture courses, which should be
taken in the sequence: FREN P16/3.0, FREN P17/3.0, FREN 118/3.0, FREN 219/3.0, FREN 320/3.0.
French Linguistics – Medial (Arts) – Bachelor of Arts (Honours)

FRLG[----]-A or [----]FRLG-A (where [----] is a second subject of study)

Subject: Administered by the Department of French Studies in partnership with the Department of Languages, Literatures and Cultures.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (27.0 units)
   A. 6.0 units from FREN 110/6.0 or FREN 100/6.0 or (FREN 101/3.0 and FREN 102/3.0)
   B. 6.0 units in FREN 220/6.0
   C. 3.0 units in FREN 344/3.0
   D. 6.0 units in (FREN 353/3.0 and FREN 393/3.0) or FREN 215/6.0
   E. 3.0 units in FREN373/3.0
   F. 3.0 units in FREN 444/3.0

2. OPTION COURSES (15.0 units)
   A. 3.0 units from FRLG_French_Options
   B. 12.0 units from FRLG_French_Options; FRLG_Linguistics_Options

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Only one of FREN 283/3.0 and 384/3.0 may be used towards the requirements of this Plan.
   B. Students should note that P-level courses may not be used towards the requirements of this Plan. Students may not register for, or receive credit for courses that are at a level lower than their current level of ability. This is particularly true of the P-level and 100-level courses, many of which contain One-Way Exclusions, and of the Communication and Culture courses, which should be taken in the sequence: FREN P16/3.0, FREN P17/3.0, FREN 118/3.0, FREN 219/3.0, FREN 320/3.0.
Geology – Major (Science) – Bachelor of Science (Honours)

GEOL-M-BSH

Subject: Administered by the Department of Geological Sciences and Geological Engineering.

Plan: Consists of 72.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (39.0 units)**
   A. 6.0 units in GEOL 104/3.0, GEOL 107/3.0
   B. 18.0 units in GEOL 200/3.0, GEOL 221/3.0, GEOL 232/3.0, GEOL 235/3.0, GEOL 238/3.0, GEOL 249/3.0
   C. 3.0 units in STAT 263/3.0
   D. 9.0 units in GEOL 300/3.0, GEOL 321/3.0, GEOL 365/3.0
   E. 3.0 units in GEOL 488/3.0

2. **OPTION COURSES (21.0 units)**
   A. 15.0 units in GEOL
   B. 6.0 units from (CHEM 112/6.0 or CHEM 116/6.0); (MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0) or MATH 122/6.0); (PHYS 106/6.0 or PHYS 104/6.0 or PHYS 117/6.0 or PHYS 107/6.0)

3. **SUPPORTING COURSES (12.0 units)**
   A. 12.0 units from (CHEM 112/6.0 or CHEM 116/6.0); (MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0) or MATH 122/6.0); (PHYS 106/6.0 or PHYS 104/6.0 or PHYS 117/6.0 or PHYS 107/6.0)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. 100 through 300-level geology courses within the core are prerequisites for most 300 and 400-level courses should normally be completed before the end of the third year of study.
Geology – Minor (Science)

GEOL-Z

Subject: Administered by the Department of Geological Sciences and Geological Engineering.

Plan: Consists of 48.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Geology – General (Science) – Bachelor of Science

GEOL-G-BSC

Subject: Administered by the Department of Geological Sciences and Geological Engineering.

Plan: Consists of 48.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, of which at least 48.0 units including the Plan units must be in the physical, and natural sciences or mathematics, will lead to a Bachelor of Science Degree.

1. **CORE COURSES (21.0 units)**
   A. 6.0 units in GEOL 104/3.0, GEOL 107/3.0
   B. 12.0 units in GEOL 200/3.0, GEOL 232/3.0, GEOL 235/3.0, GEOL 238/3.0
   C. 3.0 units from GEOL 249/3.0 or GEOL 365/3.0

2. **OPTION COURSES (15.0 units)**
   A. 15.0 units in GEOL

3. **SUPPORTING COURSES (12.0 units)**
   A. 6.0 units in MATH 121/6.0
   B. 6.0 units from (CHEM 112/6.0 or CHEM 116/6.0) or (PHYS 106/6.0 or PHYS 117/6.0 or PHYS 107/6.0)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)
6. **NOTES**

   **A.** When used towards the requirements of a BSc Program, a total of 48.0 units, including the Plan units, must be in the physical and natural sciences or mathematics.
Geology – Minor (Arts)

GEOL-Y

Subject: Administered by the Department of Geological Sciences and Geological Engineering.

Plan: Consists of 36.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Geology – General (Arts) – Bachelor of Arts

GEOL-G-BA

Subject: Administered by the Department Geological Sciences and Geological Engineering.

Geology.

Plan: Consists of 36.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (6.0 units)**  
   A. 6.0 units in GEOL 104/3.0 and 107/3.0

2. **OPTION COURSES (24.0 units)**  
   A. 24.0 units from GEOL

3. **SUPPORTING COURSES (6.0 units)**  
   A. 6.0 units from BIOL or CHEM or CISC or MATH or PHYS

4. **ADDITIONAL REQUIREMENTS**  
   (none)

5. **SUBSTITUTIONS**  
   (none)

6. **NOTES**  
   (none)
Geology – Specialization (Science) – Bachelor of Science (Honours)

GEOL-P-BSH

Subject: Administered by the Department of Geological Sciences and Geological Engineering.

Plan: Consists of 96.0 units as described below.

Program: The Plan, together with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (60.0 units)**
   A. 6.0 units in GEOL 104/3.0, GEOL 107/3.0
   B. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   C. 6.0 units from MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0) or MATH 122
   D. 6.0 units from PHYS 106/6.0 or PHYS 104/6.0 or PHYS 117/6.0 or PHYS 107/6.0
   E. 18.0 units in GEOL 200/3.0, GEOL 221/3.0, GEOL 232/3.0, GEOL 235/3.0, GEOL 238/3.0, GEOL 249/3.0
   F. 3.0 units in STAT 263/3.0
   G. 12.0 units in GEOL 300/3.0, GEOL 321/3.0, GEOL 337/3.0, GEOL 365/3.0
   H. 3.0 units in GEOL 488/3.0

2. **OPTION COURSES (36.0 units)**
   A. 6.0 units from (BIOL 102/3.0; BIOL 103/3.0; BIOL 110/3.0; BIOL 111/3.0) or MATH 111/6.0 or MATH 110/6.0
   B. 18.0 units from GEOL
   C. 3.0 units from GEOL 323/3.0; GEOL 333/3.0; GEOL 478/3.0
   D. 3.0 units from GEOL 323/3.0; GEOL 333/3.0; GEOL 362/3.0; GEOL 368/3.0; GEOL 421/3.0; GEOL 478/3.0
   (Complementary courses)
   E. 6.0 units from WRIT 175/3.0; CISC 101/3.0; CISC 121/3.0; CISC 124/3.0; BIOL; CHEM; CISC; MATH; PHYS; STAT; GPHY_Physical; GPHY_Tech/Methods at the 200-level or above.

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
A. 100 through 300-level geology courses within the core are prerequisites for most 300 and 400-level courses should normally be completed before the end of the third year of study.
Gender Studies – Major (Arts) – Bachelor of Arts (Honours)

GNDS-M-BAH

Subject: Administered by the Department of Gender Studies.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (18.0 units)
   A. 3.0 units from GNDS 120/3.0 or WMNS 101/3.0 or WMNS 102/3.0
   B. 3.0 units from GNDS 125/3.0 or WMNS 225/3.0
   C. 6.0 units in GNDS 212/3.0, GNDS 215/3.0
   D. 3.0 units in GNDS 311/3.0
   E. 3.0 units from GNDS 345/3.0 or WMNS 230/3.0

2. OPTION COURSES (42.0 units)
   A. 12.0 units from GNDS at the 300-level
   B. 6.0 units from GNDS; WMNS at the 400-level or above
   C. 24.0 units from GNDS; WMNS; GNDS_Options

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   A. If taken in the 2008-09 academic year or earlier, WMNS 312/3.0 for GNDS 311/3.0 in 1D.

6. NOTES
   A. Previous to 2010/11, all GNDS courses had the alternate course code WMNS. WMNS courses with the same number as the corresponding GNDS course are considered equivalent for the purposes of fulfilling the Plan/Program requirements.
   B. Other courses may be approved for inclusion in this degree program with permission of the Undergraduate Chair of the Department of Gender Studies.
Gender Studies – Medial (Arts) – Bachelor of Arts (Honours)

GNDS[----]-A or [----]GNDS-A (where [----] is a second subject of study)

Subject: Administered by the Department of Gender Studies.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (18.0 units)**
   A. 3.0 units from GNDS 120/3.0 or WMNS 101/3.0 or WMNS 102/3.0
   B. 3.0 units from GNDS 125/3.0 or WMNS 225/3.0
   C. 6.0 units in GNDS 212/3.0, GNDS 215/3.0
   D. 3.0 units in GNDS 311/3.0
   E. 3.0 units from GNDS 345/3.0 or WMNS 230/3.0

2. **OPTION COURSES (24.0 units)**
   A. 12.0 units from GNDS at the 300-level
   B. 12.0 units from GNDS; WMNS; GNDS_Options

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. If taken before the 2008-09 academic year WMNS 312/3.0 for WMNS 311/3.0 in 1D.

6. **NOTES**
   A. Previous to 2010/11, all GNDS courses had the alternate course code WMNS. WMNS courses with the same number as the corresponding GNDS course are considered equivalent for the purposes of fulfilling the Plan/Program requirements.
   B. Other courses may be approved for inclusion in this degree program with permission of the Undergraduate Chair of the Department of Gender Studies.
Gender Studies – Minor (Arts)

GNDS-Y

Subject: Administered by the Department of Gender Studies.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Gender Studies – General (Arts) – Bachelor of Arts

GNDS-G-BA

Subject: Administered by the Department of Gender Studies.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (12.0 units)**
   A. 3.0 units from GNDS 120/3.0 or WMNS 101/3.0 or WMNS 102/3.0
   B. 3.0 units from GNDS 125/3.0 or WMNS 225/3.0
   C. 6.0 units in GNDS 212/3.0, GNDS 215/3.0

2. **OPTION COURSES (18.0 units)**
   A. 18.0 units from GNDS; GNDS_Options at the 300-level and below

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Previous to 2010/11, all GNDS courses had the alternate course code WMNS. WMNS courses with the same number as the corresponding GNDS course are considered equivalent for the purposes of fulfilling the Plan/Program requirements.
   B. Other courses may be approved for inclusion in this degree program with permission of the Undergraduate Chair of the Department of Gender Studies.
Geography – Major (Science) – Bachelor of Science (Honours)

GPHY-M-BSH

Subject: Administered by the Department of Geography.

Plan: Consists of 72.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. CORE COURSES (24.0 units)
   A. 6.0 units in GPHY 101/3.0 and GPHY 102/3.0
   B. 9.0 units in GPHY 207/3.0, GPHY 208/3.0, GPHY 209/3.0
   C. 3.0 units from GPHY 210/3.0 or GEOL 200/3.0
   D. 3.0 units in GPHY 247/3.0
   E. 3.0 units from GPHY 242/3.0 or GPHY 243/3.0 or GISC 201/3.0

2. OPTION COURSES (36.0 units)
   A. 6.0 units from GPHY_Human at the 200-level or above
   B. 6.0 units from GPHY_Physical; GPHY_Tech/Methods; GISC at the 400-level
   C. 12.0 units from GPHY_Physical; GPHY_Tech/Methods; GISC at the 300-level or above
   D. 6.0 units from GPHY_Physical; GPHY_Tech/Methods
   E. 6.0 units from ASC_Sciences_No GPHY at the 200-level or above

3. SUPPORTING COURSES (12.0 units)
   A. 12.0 units from CHEM or MATH or STAT or PHYS at the 100-level or above

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Students who began this concentration before 1 September 2008 may meet the following requirements:
      Options 2B and 2C: 9.0 units are required at the 300-level or above and only 3.0 units at the 400-level or above.
      Core 1B-D: GPHY 208/3.0, GPHY 209/3.0 and GPHY 210/3.0 are required. The remaining 6.0 units may be chosen from GPHY 240/3.0; GPHY 242/3.0; GPHY 243/3.0; GPHY 244/3.0; GPHY 247/3.0 GPHY 249/3.0; GISC 201/3.0; GISC 202/3.0
Geography – Minor (Science)

GPHY-Z

Subject: Administered by the Department of Geography.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Geography – General (Science) – Bachelor of Science

GPHY-G-BSC

Subject: Administered by the Department of Geography.

Plan: Consists of 42.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, of which at least 48.0 units including the Plan units must be in the physical, and natural sciences or mathematics, will lead to a Bachelor of Science Degree.

1. CORE COURSES (21.0 units)
   A. 6.0 units in GPHY 101/3.0 and GPHY 102/3.0
   B. 9.0 units in GPHY 207/3.0, GPHY 208/3.0, GPHY 209/3.0
   C. 3.0 units in GPHY 247/3.0
   D. 3.0 units from GPHY 242/3.0; GPHY 243; GISC 201/3.0

2. OPTION COURSES (15.0 units)
   A. 9.0 units from GPHY_Physical; GPHY_Tech/Methods; GISC at the 300-level or above
   B. 6.0 units from GPHY_Human at the 200-level or above

3. SUPPORTING COURSES (6.0 units)
   A. 6.0 units from CHEM or MATH or STAT or PHYS at the 100-level or above

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Students who began this concentration before 1 September 2008 may meet the following requirements:
Core **1B-D** GPHY 208/3.0, 209/3.0 and 210/3.0 are required. The remaining 6.0 units may be chosen from GPHY 240/3.0; GPHY 242/3.0; GPHY 243/3.0; GPHY 244/3.0; GPHY 247/3.0; *GPHY 249/3.0; GISC 201/3.0; GISC 202/3.0*

**B.** When used towards the requirements of a BSc Program, a total of 48.0 units, including the Plan units, must be in the physical and natural sciences or mathematics.
Geography – Major (Arts) – Bachelor of Arts (Honours)

GPHY-M-BAH

Subject: Administered by the Department of Geography.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (21.0 units)
   A. 6.0 units in GPHY 101/3.0 and GPHY102/3.0
   B. 6.0 units from GPHY 240/3.0; GPHY 242/3.0; GPHY 243/3.0; GPHY 244/3.0; GPHY 247/3.0; GISC 201/3.0; GISC 202/3.0; GPHY 249/3.0
   C. 6.0 units from GPHY 227/3.0; GPHY 228/3.0; GPHY 229/3.0
   D. 3.0 units from GPHY 401/3.0; GPHY 402/3.0; GPHY 403/3.0; GPHY 404/3.0; GPHY 405/3.0; GPHY 491/3.0; GPHY 492/3.0; GPHY 493/3.0; GPHY 495/3.0; GPHY 496/3.0; GPHY 497/3.0

2. OPTION COURSES (39.0 units)
   A. 6.0 units from GPHY_Physical at the 200-level or above
   B. 21.0 units from GPHY; GISC at the 300-level or above
   C. 12.0 units from GPHY; GISC

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Students are strongly recommended to take core requirement 1B in their second year.
   B. Courses in GPHY at the 300-level or above are normally restricted to students at Level 3.
Geography – Medial (Arts) – Bachelor of Arts (Honours)

GPHY[----]-A or [----]GPHY-A (where [----] is a second subject of study)

Subject: Administered by the Department of Geography.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (18.0 units)
   A. 6.0 units in GPHY 101/3.0 and GPHY 102/3.0
   B. 6.0 units from GPHY 240/3.0; GPHY 242/3.0; GPHY 243/3.0; GPHY 244/3.0; GPHY 247/3.0; GISC 201/3.0; GISC 202/3.0; GPHY 249/3.0
   C. 6.0 units from GPHY 227/3.0; GPHY 228/3.0; GPHY 229/3.0

2. OPTION COURSES (24.0 units)
   A. 6.0 units from GPHY_Physical at the 200-level or above
   B. 3.0 units from GPHY; GISC at the 400-level
   C. 9.0 units from GPHY; GISC at the 300-level or above
   D. 6.0 units from GPHY; GISC

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Courses in GPHY at the 300-level or above are normally restricted to students at Level 3.
Geography – Minor (Arts)

GPHY-Y

Subject: Administered by the Department of Geography.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Geography – General (Arts) – Bachelor of Arts

GPHY-G-BA

Subject: Administered by the Department of Geography.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (6.0 units)**
   A. 6.0 units in GPHY 101/3.0 and GPHY102/3.0

2. **OPTION COURSES (24.0 units)**
   A. 6.0 units from GPHY_Physical at the 200-level or above
   B. 6.0 units from GPHY_Human at the 200-level or above
   C. 6.0 units from GPHY; GISC at the 300-level or above
   D. 6.0 units from GPHY; GISC

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   (none)
Greek – Major (Arts) – Bachelor of Arts (Honours)

GREK-M-BAH

Subject: Administered by the Department of Classics.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (30.0 units)**
   A. 12.0 units in GREK 112/6.0 and GREK 208/6.0
   B. 6.0 units from GREK 310/6.0 or GREK 311/6.0
   C. 6.0 units from GREK 410/6.0 or GREK 411/6.0 or GREK 430/6.0
   D. 6.0 units from GREK at the 300-level or above
   General Examination
   E. 0.0 units in GREK 591/0.0

2. **OPTION COURSES (30.0 units)**
   A. 12.0 units from CLST; GREK; LATN at the 300-level or above
   B. 12.0 units from CLST; GREK; LATN at the 200-level or above
   C. 6.0 units from CLST; GREK; LATN at any level

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Courses numbered at the 100-level must be taken early in the program (in first or second year).
Greek – Medial (Arts) – Bachelor of Arts (Honours)

GREK[----]-A or [----]GREK-A (where [----] is a second subject of study)

Subject: Administered by the Department of Classics.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (24.0 units)
   A. 12.0 units in GREK 112/6.0 and GREK 208/6.0
   B. 6.0 units from GREK 310/6.0 or GREK 311/6.0
   C. 6.0 units from GREK 410/6.0 or GREK 411/6.0

1. OPTION COURSES (18.0 units)
   A. 6.0 units from CLST; GREK; LATN at the 300-level or above
   B. 6.0 units from CLST; GREK; LATN at the 200-level or above
   C. 6.0 units from CLST; GREK; LATN at any level

2. SUPPORTING COURSES (0.0 units)
   (none)

3. ADDITIONAL REQUIREMENTS
   (none)

4. SUBSTITUTIONS
   (none)

5. NOTES
   A. Courses numbered at the 100-level must be taken early in the program (in first or second year).
Greek – Minor (Arts)

GREK-Y

Subject: Administered by the Department of Classics.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Greek – General (Arts) – Bachelor of Arts

GREK-G-BA

Subject: Administered by the Department of Classics.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

6. CORE COURSES (18.0 units)
   A. 12.0 units in GREK 112/6.0 and GREK 208/6.0
   B. 6.0 units from GREK 310/6.0 or GREK 311/6.0

2. OPTION COURSES (12.0 units)
   A. 12.0 units from CLST; GREK; LATN at any level

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Courses numbered at the 100-level must be taken early in the program (in first or second year).
German Language and Literature – Major (Arts) – Bachelor of Arts (Honours)

GRMN-M-BAH

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (18.0 units)**
   A. 9.0 units in GRMN 308/3.0, GRMN 309/3.0, GRMN 311/3.0
   B. 3.0 units from GRMN 312/3.0 or *GRMN 310/3.0*
   C. 6.0 units in GRMN 409/3.0 and GRMN 410/3.0

2. **OPTION COURSES (42.0 units)**
   A. 6.0 units from GRMN at the 500-level
   B. 30.0 units from GRMN at the 100-level or above; ARTH 306/3.0; INTS 320/3.0; INTS 321/3.0; INTS 322/3.0; INTS 326/3.0
   C. 6.0 units from GRMN at the 100-level or above; ARTH 306/3.0; INTS 320/3.0; INTS 321/3.0; INTS 322/3.0; INTS 326/3.0; GRMN_Substitutions

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. Subject to departmental approval, up to 6.0 units in another literature or in a cognate discipline addressing issues in German culture may be used in lieu of GRMN_Substitutions

6. **NOTES**
   A. See *First Year Courses and Acceleration* at the start of this calendar entry for guidance in selecting first year German courses.
German Language and Literature – Medial (Arts) – Bachelor of Arts (Honours)

GRMN[----]-A or [----]GRMN-A (where [----] is a second subject of study)

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (18.0 units)
   A. 12.0 units in GRMN 308/3.0, GRMN 309/3.0, GRMN 311/3.0, GRMN 312/3.0 or GRMN 310/3.0
   B. 6.0 units in GRMN 409/3.0 and GRMN 410/3.0

2. OPTION COURSES (24.0 units)
   A. 18.0 units from GRMN at the 100-level or above; ARTH 306/3.0; INTS 320/3.0; INTS 321/3.0; INTS 322/3.0; INTS 326/3.0
   B. 6.0 units from GRMN at the 100-level or above; ARTH 306/3.0; INTS 320/3.0; INTS 321/3.0; INTS 322/3.0; INTS 326/3.0; GRMN_Substitutions

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   A. Subject to departmental approval, up to 6.0 units in another literature or in a cognate discipline addressing issues in German culture may be used in lieu of GRMN_Substitutions

6. NOTES
   A. See First Year Courses and Acceleration at the start of this calendar entry for guidance in selecting first year German courses.
German Language and Literature – Minor (Arts)
GRMN-Y

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

German Language and Literature – General (Arts) – Bachelor of Arts
GRMN-G-BA

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. CORE COURSES (6.0 units)
   A. 6.0 units from GRMN 308/3.0; GRMN 309/3.0; GRMN 311/3.0; GRMN 312/3.0; GRMN 310/3.0

2. OPTION COURSES (24.0 units)
   A. 18.0 units from GRMN at the 100-level or above; ARTH 306/3.0; INTS 320/3.0; INTS 321/3.0; INTS 322/3.0; INTS 326/3.0
   B. 6.0 units from GRMN at the 100-level or above; ARTH 306/3.0; INTS 320/3.0; INTS 321/3.0; INTS 322/3.0; INTS 326/3.0; GRMN_Substitutions

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   A. Maximum 6.0 units can be at the P00 level.

5. SUBSTITUTIONS
   A. Subject to departmental approval, up to 6.0 units in another literature or in a cognate discipline addressing issues in German culture may be used in lieu of GRMN_Substitutions

6. NOTES
   A. See First Year Courses and Acceleration at the start of this calendar entry for guidance in selecting first year German courses.
History – Major (Arts) – Bachelor of Arts (Honours)

HIST-M-BAH

Subject: Administered by the Department of History.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (30.0 units)**
   A. 6.0 units from HIST 121/6.0 or HIST 122/6.0 or HIST 124/6.0 or HIST 125/6.0
   B. 6.0 units from HIST 300-329 or HIST_Seminars
   C. 18.0 units from HIST 330-399; HIST at the 400-level or above

2. **OPTION COURSES (30.0 units)**
   A. 24.0 units from HIST at the 200-level; HIST_Subs at the 200-level or above
   B. 6.0 units from HIST at the 100- or 200-level; HIST_Subs

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. Minimum 6.0 units from HIST_Canadian
   B. Maximum 6.0 units from HIST_Subs

5. **SUBSTITUTIONS**
   A. 6.0 units from HIST 330-499 may, in rare cases and subject to availability, be substituted for Option 2B.

6. **NOTES**
   A. It is strongly recommended, but not required, that students take 6.0 units in History from the period before 1800.
   B. It is recommended that all Option Courses be at the 200-level or above.
HIST – Medial (Arts) – Bachelor of Arts (Honours)

HIST[----]-A or [----]HIST-A (where [----] is a second subject of study)

Subject: Administered by the Department of History.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (24.0 units)**
   A. 6.0 units from HIST 121/6.0 or HIST 122/6.0 or HIST 124/6.0 or HIST 125/6.0
   B. 6.0 units from HIST 300-329 or HIST_Seminars
   C. 12.0 units from HIST 330-399; HIST at the 400-level or above

2. **OPTION COURSES (18.0 units)**
   A. 12.0 units from HIST at the 200-level; HIST_Subs at the 200-level or above
   B. 6.0 units from HIST at the 100- or 200-level; HIST_Subs

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. Minimum 6.0 units from HIST_Canadian
   B. Maximum 6.0 units from HIST_Subs

5. **SUBSTITUTIONS**
   A. 6.0 units from HIST 330-499 may, in rare cases and subject to availability, be substituted for Option 2B.

6. **NOTES**
   A. It is strongly recommended, but not required, that students take 6.0 units in History from the period before 1800.
   B. It is recommended that all Option Courses be at the 200-level or above.
History – Minor (Arts)

HIST-Y

Subject: Administered by the Department of History.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

History – General (Arts) – Bachelor of Arts

HIST-G-BA

Subject: Administered by the Department of History.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (6.0 units)**
   A. 6.0 units from HIST 121/6.0 or HIST 122/6.0 or HIST 124/6.0 or HIST 125/6.0

2. **OPTION COURSES (24.0 units)**
   A. 6.0 units from HIST at the 100- or 200-level
   B. 18.0 units from HIST at the 200-level or above

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. Minimum 6.0 units from HIST_Canadian

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. It is recommended that all Option Courses be at the 200-level or above.
Health Studies – Major (Arts) – Bachelor of Arts (Honours)

HLTH-M-BAH

Subject: Administered by the School of Kinesiology and Health Studies.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (42.0 units)**
   A. 6.0 units in HLTH101/3.0, HLTH 102/3.0
   B. 6.0 units in PSYC 100/6.0
   C. 6.0 units from (ANAT 101/3.0 and KNPE 125/3.0) or IDIS 150/6.0
   D. 6.0 units in HLTH 205/3.0 and HLTH 252/3.0
   E. 3.0 units from KNPE 251/3.0 or NURS 323/3.0 or PHED 251/3.0
   F. 6.0 units in HLTH 315/3.0, HLTH 323/3.0
   G. 9.0 units in HLTH 405/3.0, HLTH 415/6.0

2. **OPTION COURSES (18.0 units)**
   A. 3.0 units from HLTH 333/3.0 or HLTH 334/3.0
   B. 3.0 units from HLTH_Major_Options at the 400-level or above
   C. 6.0 units from HLTH_Major_Options at the 300-level or above
   D. 6.0 units from HLTH_Major_Options at the 200-level or above

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. Other than NURS 323/3.0, if an approved course is taken in another department in place of KNPE 251/3.0 or HLTH 252/3.0, an additional 3.0 unit HLTH option at the 200-level or above is required as part of the HLTH Major Plan.

6. **NOTES**
   A. Previous to 2010/11, many KNPE courses had alternate course codes (KINE, PHED, PPHE). Previous codes with the same number as the corresponding KNPE course are considered equivalent for the purposes of fulfilling the Plan requirements.
Health Studies – Medial (Arts) – Bachelor of Arts (Honours)

HLTH[----]-A or [-----]HLTH-A (where [----] is a second subject of study)

Subject: Administered by the School of Kinesiology and Health Studies.

Plan: Consists of 48.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (27.0 units)**
   A. 6.0 units in HLTH101/3.0 and HLTH 102/3.0
   B. 6.0 units from (ANAT 101/3.0 and KNPE 125/3.0) or IDIS 150/6.0
   C. 6.0 units in HLTH 205/3.0 and HLTH 252/3.0
   D. 3.0 units in KNPE 251/3.0 or NURS 323/3.0 or PHED 251/3.0
   E. 3.0 units in HLTH 315/3.0
   F. 3.0 units in HLTH 405/3.0

2. **OPTION COURSES (15.0 units)**
   A. 6.0 units from HLTH_Medial_Options at the 300-level or above
   B. 9.0 units from HLTH_Medial_Options at the 200-level or above

3. **SUPPORTING COURSES (6.0 units)**
   A. 6.0 units in PSYC 100/6.0

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. Other than NURS 323/3.0, if an approved course is taken in another department in place of KNPE 251/3.0 or HLTH 252/3.0, an additional 3.0 unit HLTH option at the 200-level or above is required as part of the HLTH Major Plan.

6. **NOTES**
   A. Previous to 2010/11, many KNPE courses had alternate course codes (KINE, PHED, PPHE). Previous codes with the same number as the corresponding KNPE course are considered equivalent for the purposes of fulfilling the Plan requirements.
Health Studies – Minor (Arts)
HLTH-Y

Subject: Administered by the School of Kinesiology and Health Studies.

Plan: Consists of 36.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Health Studies – General (Arts) – Bachelor of Arts
HLTH-G-BA

Subject: Administered by the School of Kinesiology and Health Studies.

Plan: Consists of 36.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (15.0 units)**
   A. 6.0 units in HLTH101/3.0 and HLTH 102/3.0
   B. 3.0 units in ANAT 101/3.0
   C. 3.0 units in HLTH 205/3.0
   D. 3.0 units in HLTH 315/3.0

2. **OPTION COURSES (15.0 units)**
   A. 3.0 units from HLTH_Gen/Min_Options at the 300-level or above
   B. 12.0 units from HLTH_Gen/Min_Options at the 200-level or above

3. **SUPPORTING COURSES (6.0 units)**
   A. 6.0 units in PSYC 100/6.0

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Previous to 2010/11, many KNPE courses had alternate course codes (KINE, PHED, PPHE). Previous codes with the same number as the corresponding KNPE course are considered equivalent for the purposes of fulfilling the Plan requirements.
Italian – Medial (Arts) – Bachelor of Arts (Honours)

ITLN[----]-A or [----]ITLN-A (where [----] is a second subject of study)

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

This Plan is currently under academic review. No new students will be admitted to the Plan in the 2011/12 academic year. Please see the 2009/10 Arts & Science Calendar for details of this Plan.
Italian – Minor (Arts)

ITLN-Y

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Italian – General (Arts) – Bachelor of Arts

ITLN-G-BA

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (18.0 units)**
   A. 6.0 units from (ITLN P10/3.0 and ITLN 112/3.0) or *ITLN 101/6.0*
   B. 6.0 units in ITLN 204/3.0 and 205/3.0
   C. 6.0 units in (ITLN 331/3.0 and ITLN 332/3.0) or *ITLN 230/6.0*

2. **OPTION COURSES (12.0 units)**
   A. 6.0 units from ITLN;
   B. 6.0 units from ITLN: ITLN_Options

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. The courses chosen must not duplicate work already completed either in university or pre-university study. If a student enters the program with advanced language/grammar knowledge or speaks Italian at the near-native level, the student is exempted from taking the language and grammar core courses noted in 1A, 1B, and 1C. These would be replaced with ITLN options.
B. To register in SPAN P10/3.0 or ITLN P10/3.0 students must sign a form in the Departmental Office officially declaring that they have no knowledge of Spanish or Italian at all. A language placement test may apply.
Jewish Studies – Minor (Arts)

JWST-Y

Subject: Administered by the Program in Jewish Studies.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Jewish Studies – General (Arts) – Bachelor of Arts

JWST-G-BA

Subject: Administered by the Program in Jewish Studies.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. CORE COURSES (6.0 units)
   A. 6.0 units from HEBR

2. OPTION COURSES (24.0 units)
   A. 12.0 units from JWST_Options at the 200-level or above
   B. 12.0 units from JWST_Options

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Course choices must be approved by the Director of the Jewish Studies program.
Kinesiology – General (Science) – Bachelor of Science

KINE-G-BSC

Subject: Administered by the School of Kinesiology and Health Studies.

Plan: Consists of 48.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, of which at least 48.0 units including the Plan units must be in the physical, and natural sciences or mathematics, will lead to a Bachelor of Science Degree.

1. CORE COURSES (30.0 units)
   A. 12.0 units in HLTH101/3.0, KNPE125/3.0, KNPE 153/3.0, KNPE 167/3.0
   B. 18.0 units in KNPE 225/3.0, KNPE 227/3.0, KNPE 251/3.0 or NURS 323/3.0, KNPE 255/3.0, KNPE 261/3.0, KNPE 265/3.0

2. OPTION COURSES (6.0 units)
   A. 6.0 units from KNPE; HLTH at the 300-level or above

3. SUPPORTING COURSES (12.0 units)
   A. 6.0 units in PSYC 100/6.0
   B. 6.0 units in ANAT 315/3.0 and ANAT 316/3.0

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   A. Other than NURS 323/2.0, if an approved course is taken in place of KNPE 251/3.0, an additional 3.0 units from HLTH, KINE, KNPE or PPHE at the 200-level or above is required.

6. NOTES
   A. Previous to 2010/11, many KNPE courses had alternate course codes (KINE, PHED, PPHE). Previous codes with the same number as the corresponding KNPE course are considered equivalent for the purposes of fulfilling the Plan requirements.
   B. This Plan, unlike most other General (Science) Plans, may not be added to a Major to form a Major-Minor Plan combination.
   C. This Plan, unlike most other General (Science) Plans, may not be requested as a course of study.
Kinesiology – Specialization (Science) – Bachelor of Science (Honours)

KINE-P-BSH

Subject: Administered by the School of Kinesiology and Health Studies.

Plan: Consists of 102.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (45.0 units)**
   A. 12.0 units in HLTH101/3.0, KNPE125/3.0, KNPE 153/3.0, KNPE 167/3.0
   B. 6.0 units in PSYC 100/6.0
   C. 3.0 units in KNPE 251/3.0 or NURS 323/3.0
   D. 15.0 units in KNPE 225/3.0, KNPE 227/3.0, KNPE 255/3.0, KNPE 261/3.0, KNPE 265/3.0
   E. 3.0 units in HLTH 252/3.0
   F. 6.0 units in ANAT 315/3.0 and ANAT 316/3.0

2. **OPTION COURSES (57.0 units)**
   A. 6.0 units from KINE_Exercise_Options
   B. 6.0 units from KINE_Socio-Cultural_Options
   C. 6.0 units from KINE_Health_Promo_Options
   D. 15.0 units from KNPE; HLTH
   E. 3.0 units from ASC_Sciences at the 400 level or above
   F. 9.0 units from ASC_Sciences at the 300-level or above
   G. 12.0 units from ASC_Sciences

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. 6.0 units in the Plan must be selected from KINE_Labs
   B. 9.0 units from KNPE; HLTH must be at the 400-level or above
   C. 18.0 units from KNPE; HLTH must be at the 300-level or above
   D. No more than 12.0 units from KINE_Professional_Options may be used to satisfy the Plan requirements.

5. **SUBSTITUTIONS**
   A. Other than NURS 323/3.0, if an approved course is taken in another department in place of KNPE 251/3.0, an additional 3.0 unit KNPE or HLTH option at the 200-level or above is required as part of the KINE Plan.
6. NOTES
   A. PACT courses may not be used towards the requirements of this degree program. This includes any elective requirements
   B. Students interested in being accepted into the Athletic Therapy or Strength and Conditioning “mini-stream” will apply at the end of first year for the limited number of spaces that are available. Students accepted into these streams will be permitted to access the entry level courses KNPE331/3.0 or KNPE 345/3.0 starting in their second year.
   C. Previous to 2010/11, many KNPE courses had alternate course codes (KINE, PHED, PPHE). Previous codes with the same number as the corresponding KNPE course are considered equivalent for the purposes of fulfilling the Plan requirements.
World Language Studies – Minor (Arts)

LANG-Y

Subject: Administered by the Department of Languages, Literatures and Cultures (Chinese, German, Italian, Japanese, Spanish languages) in partnership with the Departments of Classics (Greek and Latin languages); French Studies (French language); Jewish Studies (Hebrew languages) and Arabic language.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

World Language Studies – General (Arts) – Bachelor of Arts

LANG-G-BA

Subject: Administered by the of Languages, Literature and Cultures (Chinese, German, Italian, Japanese, Spanish languages) in partnership with the Departments of Classics (Greek and Latin languages); French Studies (French language); Jewish Studies (Hebrew languages) and Arabic language.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. CORE COURSES (24.0 units)
   A. 6.0 units from LANG_Languages at the 300-level or above
   B. 6.0 units from LANG_Languages at the 200-level or above
   C. 12.0 units from LANG_Languages

2. OPTION COURSES (6.0 units)
   A. 6.0 units from LANG_Languages; LANG_Concepts

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   A. Maximum 6.0 units may be at the P00-level
   B. At least two different languages from the LANG_Languages list must be chosen

5. SUBSTITUTIONS
   (none)
6. **NOTES**
   (none)
Latin – Major (Arts) – Bachelor of Arts (Honours)

LATN-M-BAH

Subject: Administered by the Department of Classics.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (30.0 units)**
   A. 12.0 units in LATN 110/6.0 and LATN 209/6.0
   B. 6.0 units from LATN 310/6.0 or LATN 311/6.0 or LATN 327/6.0
   C. 6.0 units from LATN 410/6.0 or LATN 411/6.0 or LATN 431/6.0
   D. 6.0 units from LATN at the 300-level or above
      *General Examination*
   E. 0.0 units in LATN 591/0.0

2. **OPTION COURSES (30.0 units)**
   A. 12.0 units from CLST; GREK; LATN at the 300-level or above
   B. 12.0 units from CLST; GREK; LATN at the 200-level or above
   C. 6.0 units from CLST; GREK; LATN at any level

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Courses numbered at the 100-level must be taken early in the program (in first or second year).
Latin – Medial (Arts) – Bachelor of Arts (Honours)

LATN[----]-A or [----]LATN-A (where [----] is a second subject of study)

Subject: Administered by the Department of Classics.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (24.0 units)**
   A. 12.0 units in LATN 110/6.0 and LATN 209/6.0
   B. 6.0 units from LATN 310/6.0 or LATN 311/6.0 or LATN 327/6.0
   C. 6.0 units from LATN 410/6.0 or LATN 411/6.0

1. **OPTION COURSES (18.0 units)**
   A. 6.0 units from CLST; GREK; LATN at the 300-level or above
   B. 6.0 units from CLST; GREK; LATN at the 200-level or above
   C. 6.0 units from CLST; GREK; LATN at any level

2. **SUPPORTING COURSES (0.0 units)**
   (none)

3. **ADDITIONAL REQUIREMENTS**
   (none)

4. **SUBSTITUTIONS**
   (none)

5. **NOTES**
   A. Courses numbered at the 100-level must be taken early in the program (in first or second year).
Latin – Minor (Arts)

LATN-Y

Subject: Administered by the Department of Classics.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Latin – General (Arts) – Bachelor of Arts

LATN-G-BA

Subject: Administered by the Department of Classics.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (18.0 units)**
   A. 12.0 units in LATN 110/6.0 and LATN 209/6.0
   B. 6.0 units from LATN 310/6.0 or LATN 311/6.0 or LATN 327/6.0

2. **OPTION COURSES (12.0 units)**
   A. 12.0 units from CLST; GREK; LATN at any level

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Courses numbered at the 100-level must be taken early in the program (in first or second year).
Linguistics – Major (Arts) – Bachelor of Arts (Honours)

LING-M-BAH

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (21.0 units)**
   A. 6.0 units in LING 100/6.0
   B. 6.0 units in LING 310/3.0 and LING 320/3.0,
   C. 6.0 units in LING 330/3.0 and LING 340/3.0
   D. 3.0 units in LING 415/3.0

2. **OPTION COURSES (39.0 units)**
   A. 3.0 units from LING at the 300-level or above
   B. 36.0 units from LING; LING_Maj_Options

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. Only one of LING 501/3.0 or LING 505/9.0 may be counted towards this Plan.

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   (none)
Linguistics – Minor (Arts)

LING-Y

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Linguistics – General (Arts) – Bachelor of Arts

LING-G-BA

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. CORE COURSES (18.0 units)
   A. 6.0 units in LING 100/6.0
   B. 6.0 units in LING 310/3.0 and LING 320/3.0,
   C. 6.0 units in LING 330/3.0 and LING 340/3.0

2. OPTION COURSES (12.0 units)
   A. 6.0 units from LING 200-499.
   B. 6.0 units from LING 200-499; LING_Min_Options

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   (none)
Life Sciences – Major (Science) – Bachelor of Science (Honours)

LISC-M-BSH

Subject: Administered by the Associate Dean, Life Sciences and Biochemistry

Plan: Consists of 72.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (30.0 units)**
   A. 6.0 units in BIOL 102/3.0 and BIOL 103/3.0
   B. 6.0 units from PHYS 117/6.0 or PHYS 106/6.0 or PHYS 104/6.0 or PHYS 107/6.0
   C. 6.0 units in BIOL 205/3.0 and MICR 221/3.0
   D. 6.0 units in CHEM 281/3.0 and CHEM 282/3.0
   E. 6.0 units in PHGY 214/6.0

2. **OPTION COURSES (30.0 units)**
   A. 3.0 units from LISC_List_A at the 400-level or above
   B. 15.0 units from LISC_List_A at the 300-level or above
   C. 6.0 units from LISC_List_A at the 200-level or above
   D. 6.0 units from LISC_List_A

3. **SUPPORTING COURSES (12.0 units)**
   A. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   B. 6.0 units from MATH 122/6.0 or MATH 121/6.0 or MATH 120/6.0

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Students wishing to take upper-year PSYC courses as electives should take PSYC 100/6.0 as an elective.
   B. No more than 15.0 units chosen from LISC_List_A may be in PSYC or BIOL.
   C. Students in the BSCH LISC SSP degree will be given priority for all 499 courses (ANAT 499, CANC 499, DDHT 499, EPID 499, NSCI 499, PATH 499, PGHY 499, PHAR 499, and MICR 499). Permission to take any of these courses must be approved by the Associate Dean (Life Sciences and Biochemistry).
Life Science – Minor (Science)

LISC-Z

Subject: Administered by the Associate Dean, Life Sciences and Biochemistry

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Life Science – General (Science) – Bachelor of Science

LISC-G-BSC

Subject: Administered by the Associate Dean, Life Sciences and Biochemistry

Plan: Consists of 42.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, of which at least 48.0 units including the Plan units must be in the physical, and natural sciences or mathematics, will lead to a Bachelor of Science Degree.

1. CORE COURSES (18.0 units)
   A. 6.0 units in BIOL 102/3.0 and BIOL 103/3.0
   B. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   C. 3.0 units in CHEM 281/3.0 or CHEM 213/3.0
   D. 3.0 units in CHEM 282/3.0 or CHEM 321/3.0 or PHAR 230/3.0

2. OPTION COURSES (24.0 units)
   A. 18.0 units from LISC_list_B at the 200-level or above
   B. 6.0 units from LISC_list_B

3. SUPPORTING COURSES
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. All BSc GEN degrees require a total of 48.0 units in the mathematics and sciences, including the Plan units.
   B. No more than 12.0 units in BIOL or 6.0 units in KNPE, NURS, KINE, PHED and 6.0 units in BIOL may be used from Life Science List B.
Life Science – Specialization (Science) – Bachelor of Science (Honours)

LISC-P-BSH

[----]-O (where [----] is a Life Science SubPlan).

Subject: Administered by the Associate Dean, Life Sciences and Biochemistry.

Plan: Consists of 60.0 core units and 27.0 – 36.0 units in one SubPlan, as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. CORE COURSES (60.0 units)
   A. 6.0 units in BIOL 102/3.0 and BIOL 103/3.0
   B. 6.0 units from CHEM 112/6.0 or CHEM 116/6.0
   C. 6.0 units from MATH 122/6.0 or MATH 121/6.0 or MATH 120/6.0
   D. 6.0 units from PHYS 117/6.0 or PHYS 106/6.0 or PHYS 104/6.0 or PHYS 107/6.0
   E. 6.0 units in ANAT 215/3.0 and ANAT 216/3.0
   F. 6.0 units in BIOL 205/3.0 and MBIO 218/3.0
   G. 6.0 units in CHEM 281/3.0 and CHEM 282/3.0
   H. 3.0 units in MICR 221/3.0
   I. 6.0 units in PHGY 214/6.0
   J. 3.0 units in STAT 263/3.0
   K. 3.0 units in PHAR 340/3.0
   L. 3.0 units from MICR at the 300-level; MICR 400-454/3.0; MICR 461/3.0

2. SUBPLANS
   Choose one of the following SubPlans:

   A. BIOMEDICAL DISCOVERY (BMDS-O) (33.0 units)
      i. CORE COURSES (18.0 units)
         a. 6.0 units in BCHM 310/6.0
         b. 3.0 units in PHAR 450/3.0
         c. 9.0 units from ANAT 499/9.0 or EPID 499/9.0 or MICR 499/9.0
            or NSCI 499/9.0 or PATH 499/9.0 or PHGY 499/9.0 or PHAR 499/9.0
      ii. OPTION COURSES (15.0 units)
          a. 9.0 units from LISC_List_C at the 300-level or above
          b. 6.0 units from LISC_List_C at the 200-level or above
      iii. SUPPORTING COURSES
           (none)
iv. **ADDITIONAL REQUIREMENTS**  
   (none)

v. **SUBSTITUTIONS**  
   (none)

vi. **NOTES**  
   (none)

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**B. NEUROSCIENCE STREAM (NSCI-O) (36.0 units)**

i. **CORE COURSES (21.0 units)**  
   a. 6.0 units in BCHM 310/6.0  
   b. 3.0 units from NSCI 323/3.0 or NSCI 324/3.0 or LISC 322/3.0 or NSCI 322/3.0  
   c. 3.0 units in PHAR 450/3.0  
   d. 9.0 units in NSCI 499/9.0

ii. **OPTION COURSES (15.0 units)**  
   a. 6.0 units from LISC_List_D at the 400 level.  
   b. 9.0 units from LISC_List_D

iii. **SUPPORTING COURSES**  
   (none)

iv. **ADDITIONAL REQUIREMENTS**  
   (none)

v. **SUBSTITUTIONS**  
   (none)

vi. **NOTES**  
   (none)

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**C. DRUG DEVELOPMENT AND HUMAN TOXICOLOGY STREAM (DDHT-O) (36.0 units)**

i. **CORE COURSES (27.0 units)**  
   a. 6.0 units in BCHM 310/6.0  
   b. 9.0 units in DDHT 459/3.0, DDHT 460/3.0, PHAR 416/3.0  
   c. 3.0 units in PHAR 450/3.0  
   d. 9.0 units from ANAT 499/9.0 or CANC 499/9.0 or EPID 499/9.0 or MICR 499/9.0 or NSCI 499/9.0 or PATH 499/9.0 or PHGY 499/9.0 or PHAR 499/9.0

ii. **OPTION COURSES (9.0 units)**
D. CARDIORESPIRATORY SCIENCE STREAM (CRSS-O) (36.0 units)

i. CORE COURSE (27.0 units)
   a. 6.0 units in BCHM 310/6.0
   b. 3.0 units in PHGY 355/3.0
   c. 6.0 units from CRSS 453/3.0 and LISC 454/3.0 or CRSS 456/3.0
   d. 3.0 units in PHAR 450/3.0
   e. 9.0 units from ANAT 499/9.0 or PATH 499/9.0 or PHAR 499/9.0
      or PHGY 499/9.0

ii. OPTION COURSES (9.0 units)
    a. 3.0 units from LISC_List_G
    b. 3.0 units from LISC_List_H
    c. 3.0 units from LISC_List_I at the 200-level or above

iii. SUPPORTING COURSES
     (none)

iv. ADDITIONAL REQUIREMENTS
    (none)

v. SUBSTITUTIONS
   (none)

vi. NOTES
    (none)
b. 6.0 units in CANC 440/3.0 and CANC 497/3.0
c. 3.0 units in PHAR 450/3.0
d. 9.0 units in CANC 499/9.0

ii. OPTION COURSES (12.0 units)
   a. 6.0 units from LISC_List_J at the 400-level
   b. 6.0 units from LISC_List_J

iii. SUPPORTING COURSES
     (none)

iv. ADDITIONAL REQUIREMENTS
    (none)

v. SUBSTITUTIONS
   (none)

vi. NOTES
    (none)

F. BIOMEDICAL SCIENCES STREAM (BMSS-O) (27.0 units)

i. CORE COURSES (6.0 units)
   a. 6.0 units from (BCHM 315/3.0 and BCHM 316/3.0) or BCHM 310/6.0

ii. OPTION COURSES (21.0 units)
   a. 12.0 units from LISC_List_K; LISC_Labs_L at the 400-level or above
   b. 9.0 units from LISC_List_K; LISC_Labs_L

iii. SUPPORTING COURSES
     (none)

iv. ADDITIONAL REQUIREMENTS
    a. 6.0 units must be from LISC_Labs_L

v. SUBSTITUTIONS
   (none)

vi. NOTES
    (none)
3. SUPPORTING COURSES
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. PSYC 100/6.0 is a prerequisite for all higher-level psychology courses. Some psychology courses listed as approved science options have limited enrolments and may not be available to Life Sciences students.
   B. Students may take no more than one course from: ANAT 499/9.0 or CANC 499/9.0 or EPID 499/9.0 or MICR 499/9.0 or NSCI 499/9.0 or PATH 499/9.0 or PHGY 499/9.0 or PHAR 499/9.0.
Mathematical Physics – Specialization (Science) – Bachelor of Science (Honours)

MAPH-P-BSH

Subject: Administered by the Departments of Mathematics and Statistics and Physics, Engineering Physics and Astronomy.

Plan: Consists of 105.0 units as described below.

Program: The Plan, together with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (93.0 units)**
   *(Mathematics and Statistics)*
   - A. 12.0 units in MATH 110/6.0 and MATH 120/6.0
   - B. 3.0 units in MATH 210/3.0
   - C. 9.0 units in MATH 231/3.0, MATH 280/3.0, MATH 281/3.0
   - D. 6.0 units in (STAT 268/3.0 and STAT 269/3.0) or (STAT 251/3.0 and STAT 261/3.0)
   - E. 12.0 units in MATH 312/3.0, MATH 326/3.0, MATH 328/3.0, MATH 334/3.0
   *(Physics)*
   - F. 6.0 units from PHYS 104/6.0 or PHYS 106/6.0
   - G. 15.0 units in PHYS 206/3.0, PHYS 212/3.0, PHYS 239/3.0, PHYS 242/3.0, PHYS 250/3.0
   - H. 18.0 units in PHYS 313/3.0, PHYS 321/3.0, PHYS 344/3.0, PHYS 345/3.0, PHYS 350/3.0, PHYS 372/3.0
   - I. 3.0 units from PHYS 432/3.0 or PHYS 332/3.0
   - J. 9.0 units in PHYS 444/3.0 and PHYS 590/6.0

2. **OPTION COURSES (12.0 units)**
   *(Mathematics and Statistics)*
   - A. 3.0 units from MATH 341/3.0 or MATH 421/3.0 or MATH 436/3.0
   - B. 6.0 units from MATH; STAT
   *(Physics)*
   - C. 3.0 units from PHYS at the 400-level or above

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)
6. **NOTES**

   (none)
Mathematics – Major (Science) – Bachelor of Science (Honours)

MATH-M-BSH

Subject: Administered by the Department of Mathematics and Statistics.

Plan: Consists of 60.0 units (69.0 if the Actuarial Focus is selected) as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. CORE COURSES (30.0 units)
   A. 12.0 units in MATH 110/6.0 and MATH 120/6.0
   B. 3.0 units in MATH 210/3.0
   C. 9.0 units in MATH 231/3.0, MATH 280/3.0, MATH 281/3.0
   D. 6.0 units from (STAT 268/3.0 and STAT 269/3.0) or (STAT 251/3.0 and STAT 261/3.0)

2. OPTION COURSES (30.0 units)
   A. 30.0 units from one of Option List 2A
      i. Actuarial Focus (30.0 units)
         a. 12.0 units in MATH 384/3.0, MATH 385/3.0, STAT 353/3.0, STAT 361/3.0
         b. 12.0 units from MATH 337/3.0; MATH 434/3.0; (STAT 363/3.0 or STAT 463/3.0); STAT 455/3.0; STAT 462/3.0; STAT 464/3.0; STAT 465/3.0
         c. 6.0 units from MATH; STAT at the 300-level or above
      ii. Biomathematics Focus (30.0 units)
          a. 6.0 units in BIOM 300/3.0 and MATH 339/3.0
          b. 6.0 units from MATH 337/3.0; MATH 427/3.0; MATH 432/3.0; MATH 434/3.0; STAT 455/3.0
          c. 18.0 units from MATH; STAT at the 300-level or above
      iii. Business Focus (30.0 units)
          a. 6.0 units in MATH 337/3.0 and MATH 384/3.0
          b. 3.0 units in STAT 361/3.0
          c. 6.0 units from MATH 401/3.0; MATH 434/3.0; STAT 353/3.0; STAT 455/3.0; (STAT 363/3.0 or STAT 463/3.0); STAT 464/3.0; STAT 465/3.0
          d. 15.0 units from MATH; STAT at the 300-level or above
      iv. Communications Focus (30.0 units)
          a. 9.0 units in MATH 312/3.0, MATH 328/3.0, STAT 455/3.0
          b. 9.0 units from MATH 406/3.0; MATH 418/3.0; MATH 474/3.0; MATH 477/3.0; MATH 484/3.0
          c. 12.0 units from MATH; STAT at the 300-level or above
      v. Discrete Mathematics and Optimization Focus (30.0 units)
          a. 3.0 units in MATH 312/3.0
b. 12.0 units from STAT 353/3.0; MATH 401/3.0; MATH 402/3.0; MATH 405/3.0; MATH 406/3.0; MATH 434/3.0

c. 15.0 units from MATH; STAT at the 300-level or above

vi. Dynamic Processes Focus (30.0 units)
   a. 6.0 units in MATH 326 and MATH 328/3.0
   b. 6.0 units from STAT 353/3.0; MATH 427/3.0; MATH 432/3.0; MATH 441/3.0
   c. 18.0 units from MATH; STAT at the 300-level or above

vii. Probability Focus (30.0 units)
   a. 12.0 units in MATH 328/3.0, STAT 353/3.0, STAT 455/3.0; (STAT 363/3.0 or STAT 463/3.0)
   b. 3.0 units from MATH 474/3.0; MATH 484/3.0
   c. 15.0 units from MATH; STAT at the 300-level or above

viii. Pure Mathematics Focus (30.0 units)
   a. 9.0 units in MATH 310/3.0; MATH 326/3.0; MATH 328/3.0
   b. 6.0 units from MATH 341/3.0; MATH 401/3.0; MATH 413/3.0; MATH 414/3.0; MATH 421/3.0
   c. 15.0 units from MATH; STAT at the 300-level or above

ix. Statistics Focus (30.0 units)
   a. 3.0 units in STAT 361/3.0 3.0 units from (STAT 363/3.0 or STAT 463/3.0);
   b. 6.0 units from STAT 460/3.0; STAT 462/3.0; STAT 464/3.0; STAT 465/3.0; STAT 466/3.0; STAT 486/3.0
   c. 18.0 units from MATH; STAT at the 300-level or above

x. Teaching Focus (30.0 units)
   a. 9.0 units from MATH 311/3.0; MATH 313/3.0; MATH 381/3.0; MATH 382/3.0; MATH 386/3.0; MATH 387/3.0
   b. 21.0 units from MATH; STAT at the 300-level or above

3. SUPPORTING COURSES (9.0 units, Actuarial Focus only)
   A. 9.0 units from (COMM 211/3.0 or COMM 111/3.0); (COMM 221/3.0 or COMM 121/3.0); (ECON 110/6.0 or [ECON 111/3.0 and ECON 112/3.0]); ECON 212/3.0; MATH 272/3.0

4. ADDITIONAL REQUIREMENTS
   A. Minimum of 6.0 units in MATH or STAT at the 400-level or above.

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Students may seek departmental approval for a focussed group of courses not listed here. A written rationale for the proposed focus will be required.
   B. In planning their program, students should consider that some of the 300- and 400-level courses listed are not offered every year, but can be taken in third year.
C. Graduate courses at the 800-level are available to fourth-year students with an excellent record who obtain permission of the Department and of the School of Graduate Studies and Research.
Mathematics – Minor (Science)

MATH-Z

Subject: Administered by the Department of Mathematics and Statistics.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Mathematics – General (Science) – Bachelor of Science

MATH-G-BSC

Subject: Administered by the Department of Mathematics and Statistics.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, of which at least 48.0 units including the Plan units must be in the physical, and natural sciences or mathematics, will lead to a Bachelor of Science Degree.

1. CORE COURSES (15.0 units)
   A. 6.0 units from MATH 110/6.0 or MATH 111/6.0
   B. 6.0 units from MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0) or MATH 126/6.0
   C. 3.0 units from STAT 263/3.0 or STAT 268/3.0 or STAT 251/3.0 or STAT 251/3.0 or STAT 261/3.0

2. OPTION COURSES (15.0 units)
   A. 15.0 units from MATH, STAT, BIOM at the 200-level or above

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. When used towards the requirements of a BSc Program, a total of 48.0 units, including the Plan units, must be in the physical and natural sciences or mathematics.
Mathematics – Medial (Arts) – Bachelor of Arts (Honours)

MATH[-----]-A or [----]MATH-A (where [----] is a second subject of study)

Subject: Administered by the Department of Mathematics and Statistics.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (24.0 units)**
   A. 6.0 units from MATH 110/6.0 or MATH 111/6.0
   B. 6.0 units from MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0)
   C. 3.0 units from MATH 280/3.0 or MATH 221/3.0
   D. 6.0 units from (STAT 268/3.0 and STAT 269/3.0) or (STAT 263/3.0 and STAT 351/3.0) or (STAT 251/3.0 and STAT 261/3.0)
   E. 3.0 units from MATH 231/3.0 or MATH 232/3.0

2. **OPTION COURSES (18.0 units)**
   A. 12.0 units from MATH; STAT; BIOM at the 300-level or above
   B. 6.0 units from MATH 211/6.0 or (MATH 210/3.0 and MATH; STAT; BIOM at the 200-level or above)

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   (none)
Mathematics – Minor (Arts)

MATH-Y

Subject: Administered by the Department of Mathematics and Statistics.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Mathematics – General (Arts) – Bachelor of Arts

MATH-G-BA

Subject: Administered by the Department of Mathematics and Statistics.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (15.0 units)**
   A. 6.0 units from MATH 110/6.0 or MATH 111/6.0
   B. 6.0 units from MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0) or MATH 126/6.0
   C. 3.0 units from STAT 263/3.0 or STAT 268/3.0 or STAT 251/3.0 or STAT 261/3.0

2. **OPTION COURSES (15.0 units)**
   A. 15.0 units from MATH; STAT; BIOM at the 200-level or above

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   (none)
Medieval Studies – Minor (Arts)

MDVL-Y

Subject: Administered in partnership by the Departments of Art, Classics, English and History.
Plan: Consists of 42.0 units as described below.
Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Medieval Studies – General (Arts) – Bachelor of Arts

MDVL-G-BA

Subject: Administered in partnership by the Departments of Art, Classics, English and History.
Plan: Consists of 42.0 units as described below.
Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (0.0 units)**
   (none)

2. **OPTION COURSES (30.0 units)**
   A. 6.0 from MDVL_Language_Acquisition; MDVL_Art; MDVL_Classics; MDVL_English; MDVL_History; MDVL_Literature/Culture
   B. 24.0 units from MDVL_Art; MDVL_Classics; MDVL_English; MDVL_History; MDVL_Literature/Culture

3. **SUPPORTING COURSES (12.0 units)**
   A. 6.0 units in ENGL 100/6.0
   B. 6.0 units from HIST 121/6.0 or HIST 122/6.0

4. **ADDITIONAL REQUIREMENTS**
   A. Students must take at least 3.0 units each from three of the following four course lists: MDVL_Art; MDVL_Classics; MDVL_English; MDVL_History; MDVL_Literature/Culture

5. **SUBSTITUTIONS**
   A. Other appropriate courses may be accepted at the discretion of the coordinator of Medieval Studies

6. **NOTES**
   A. Students should note that many of the option courses, particularly those in English and History, require prerequisites. See Department listings for
clarification. A first year course in ARTH would also be a useful prerequisite, as would CLST 201/3.0.
The following lists contains courses offered through other Departments. In accordance with Academic Regulation 2.5 (Access to Classes), students do not have enrolment priority in all of these courses. Access to these courses may only be made available during the September Open Enrolment period, and then only if space permits.

MDVL_Language_Acquisition

*Language courses in Medieval Studies*

*note: no more than 6.0 units*

ARAB 100/6.0; ARAB 200/6.0;
LATN 110/6.0; LATN 209/6.0;
GREK 112/6.0; GREK 208/6.0

MDVL_Art

*Art History courses in Medieval Studies*

ARTH 212/3.0;
ARTH 307/3.0; ARTH 308/3.0; ARTH 375/3.0;
ARTH 415/3.0; ARTH 416/3.0; ARTH 482/3.0

MDVL_Classics

*Classical Studies courses in Medieval Studies*

CLST 321/3.0; LATN 327/6.0

MDVL_English

*English courses in Medieval Studies*

ENGL 281/3.0;
ENGL 304/6.0; ENGL 306/6.0; ENGL 310/6.0; ENGL 311/6.0;
ENGL 410/6.0; ENGL 411/3.0; ENGL 412/3.0

MDVL_History

*History courses in Medieval Studies*

HIST 218/3.0; HIST 243/3.0; HIST 250/6.0; HIST 296/3.0; 
*HIST 301/3.0;*
HIST 417/6.0; HIST 430/6.0; HIST 449/3.0

MDVL_Literature/Culture

*Literary and Cultural Studies courses in Medieval Studies*

FREN 304/3.0; FREN 404/3.0;
ITLN 215/3.0; ITLN 415/3.0;
SPAN 315/3.0
Music – Major (Arts) – Bachelor of Arts (Honours)

MUSC-M-BAH

Subject: Administered by the School of Music.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (39.0 units)**
   - *(Music Theory)*
   - A. 6.0 units in MUSC 191/6.0
   - B. 6.0 units in MUSC 291/6.0
   - C. 3.0 units in MUSC 392/3.0
   - D. 3.0 units from MUSC 394/3.0 or MUSC 398/3.0 or MUSC 399/3.0
   - *(Musicology/Ethnomusicology)*
   - E. 3.0 units in MUSC 103/3.0
   - F. 9.0 units in MUSC 203/3.0, MUSC 204/3.0, MUSC 205/3.0
   - G. 3.0 units from MUSC 385/3.0 or MUSC 386/3.0
   - *(Honours Thesis)*
   - H. 6.0 units in MUSC 592/6.0

2. **OPTION COURSES (21.0 units)**
   - A. 15.0 units in MUSC_Options at the 300-level or above
   - B. 6.0 units in MUSC_Options

3. **SUPPORTING COURSES (0.0 units)**
   - (none)

4. **ADDITIONAL REQUIREMENTS**
   - (none)

5. **SUBSTITUTIONS**
   - (none)

6. **NOTES**
   - A. Students with an interest in musicology should take MUSC 385/3.0, those with an interest in ethnomusicology should take MUSC 386/3.0 (1G, above).
   - B. It is recommended that 6.0 elective units be taken in a language such as German, French or Italian.
   - C. It is recommended that no more than 18.0 of 54.0 elective units be in MUSC.
Music – Medial (Arts) – Bachelor of Arts (Honours)

MUSC[----]-A or [----]MUSC-A (where [----] is a second subject of study)

Subject: Administered by the School of Music.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (12.0 units)**
   A. 9.0 units in MUSC 103/3.0 and MUSC 191/6.0
   B. 3.0 units from MUSC 203/3.0 or MUSC 204/3.0 or MUSC 205/3.0

2. **OPTION COURSES (30.0 units)**
   A. 30.0 units from Option List 2A i or 2A ii
      i. *Music Education (30.0 units)*
         a. 6.0 units from MUSC 124/6.0; MUSC 180/3.0; MUSC 181/3.0; MUSC 182/3.0; MUSC 183/3.0; MUSC 185/3.0; MUSC 187/3.0; MUSC 188/3.0; MUSC 189/3.0
         b. 12.0 units from MUSC_Education
         c. 12.0 units from MUSC
      ii. *All other students (30.0 units)*
         a. 12.0 units from MUSC_Musicology or MUSC_Theory or MUSC_Education or MUSC_Performance
         b. 18.0 units from MUSC

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. Minimum 12.0 units must be at the 200-level or above
   B. Minimum 12.0 units must be at the 300-level or above

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Students choosing music education as their main area of study and who intend to enter a Bachelor of Education program should choose the Music Education Option (2Ai).
Music – Minor (Arts)

MUSC-Y

Subject: Administered by the School of Music.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Music – General (Arts) – Bachelor of Arts

MUSC-G-BA

Subject: Administered by the School of Music.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (6.0 units)**
   A. 3.0 units from MUSC 101/3.0 or MUSC 102/3.0
   B. 3.0 units from MUSC 171/3.0 or MUSC 289/3.0

2. **OPTION COURSES (24.0 units)**
   A. 24.0 units from Option List 2Ai or 2Aii
      i. *Music Education (24.0 units)*
         a. 6.0 units from MUSC 124/6.0; MUSC 180/3.0; MUSC 181/3.0; MUSC 182/3.0; MUSC 183/3.0; MUSC 185/3.0; MUSC 187/3.0; MUSC 188/3.0; MUSC 189/3.0
         b. 6.0 units from MUSC 153/6.0 or MUSC 191/6.0
         c. 12.0 units from MUSC_Education
      ii. *Music Comprehensive (24.0 units)*
         a. 12.0 units from MUSC_Musicology or MUSC_Theory or MUSC_Education or MUSC_Performance
         b. 12.0 units from MUSC

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. Maximum 18.0 units may be at the 100-level.

5. **SUBSTITUTIONS**
A. If a student has previously taken MUSC 203/3.0 or MUSC 204/3.0 and is subject to exclusion from MUSC 102/3.0, then MUSC 203/3.0 or MUSC 204/3.0 may be substituted for MUSC 102/3.0 for the completion of the Plan requirements.

B. If a student has previously taken MUSC 204/3.0 or MUSC 205/3.0 and is subject to exclusion from MUSC 101/3.0, then MUSC 204/3.0 or MUSC 205/3.0 may be substituted for MUSC 101/3.0 for the completion of the Plan requirements.

C. If a student has previously taken MUSC 103/3.0, it may be substituted for MUSC 289/3.0 for the completion of the Plan requirements.

6. NOTES

A. Students choosing music education as their main area of study and who intend to enter a Bachelor of Education program should choose the Music Education Option (2Ai).

B. No more than two of the courses from the MUSC 180/3.0 through MUSC 189/3.0 series may be used to fulfill the degree requirements.
Music – Specialization (Music) – Bachelor of Music

MUSC-P-BMS

Subject: Administered by the School Department of Music.

Plan: Consists of 93.0 units as described below.

Program: The Plan, with sufficient electives to total 129.0 units, will lead to a Bachelor of Music Degree.

1. **CORE COURSES (63.0 units)**
   (Musicology)
   A. 12.0 units in MUSC 103/3.0, MUSC 203/3.0, MUSC 204/3.0, MUSC 205/3.0
   (Music Theory)
   B. 15.0 units in MUSC 191/6.0, MUSC 291/6.0, MUSC 392/3.0
   (Music Education)
   C. 3.0 units from MUSC 180/3.0; MUSC 181/3.0; MUSC 183/3.0; MUSC 185/3.0;
    MUSC 187/3.0; MUSC 188/3.0
   (Musicianship)
   D. 12.0 units in MUSC 127/3.0, MUSC 128/3.0, MUSC 227/3.0, MUSC 228/3.0
   (Applied Study)
   E. 12.0 units from (MUSC 121/6.0 and MUSC 221/6.0) or (MUSC 120/6.0 and
    MUSC 220/6.0)
   (Music Theory or Musicology)
   F. 3.0 units from MUSC 385/3.0; MUSC 386/3.0; MUSC 394/3.0; MUSC 398/3.0;
    MUSC 399/3.0
   (Ensembles)
   G. 1.5 units from MUSC_Ensembles_Vocal
   H. 4.5 units from MUSC_Ensembles_Vocal; MUSC_Ensembles_Instrumental

2. **OPTION COURSES (30.0 units)**
   A. 30.0 units from Option List 2Ai or 2Aii
      i. Music Education (30.0 units)
         a. 3.0 units from MUSC 180-189/3.0
         b. 6.0 units in MUSC273/3.0 and MUSC 274/3.0
         c. 6.0 units from MUSC 332/3.0; MUSC 336/3.0; MUSC 338/3.0
         d. 6.0 units in MUSC 438/3.0 and MUSC 439/3.0
         e. 9.0 units in MUSC
      ii. Music Comprehensive (30.0 units)
         a. 30.0 units in MUSC

3. **SUPPORTING COURSES (0.0 units)**
   (none)
4. ADDITIONAL REQUIREMENTS
   A. A minimum of 36.0 units, excluding MUSC_Ensembles_Vocal; MUSC_Ensembles_Instrumental, must be at the 300 level or above.
   B. A maximum of 111.0 units may be from MUSC.
   C. A maximum of 9.0 units may be from MUSC_Ensembles_Vocal; MUSC_Ensembles_Instrumental (i.e. only 2 more ensemble courses may be taken beyond the core requirements of the Plan)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Students choosing music education as their main area of study and who intend to enter or are registered concurrently in a Bachelor of Education Program should choose the Music Education Option (2Ai).
   B. Ensembles: Membership in all ensembles is by audition. Students may register and participate in a maximum of two ensembles per academic session. All students participate in at least one vocal ensemble, as per Core Requirement 1G, above. Furthermore, students enrolled in Applied Study courses (MUSC #20/6.0; MUSC #21/6.0) must participate in the following ensembles every year in which they do not fulfill the mandatory vocal ensemble requirement:
      Voice students: any Vocal Music Ensemble;
      String students: any Symphony Orchestra Ensemble;
      Woodwind, Brass and Percussion students: any Symphony Orchestra, Symphonic Band, or Wind Ensemble;
      Piano students: must take MUSC 261/1.5 and any Piano Accompaniment, Vocal, Symphony Orchestra, Symphonic Band, Wind or Unspecified Chamber Ensemble;
      Guitar students: any Vocal, Symphony Orchestra, Symphonic Band, Wind or Unspecified Chamber Ensemble.
   C. Students who meet higher standards of performing ability, including those entering their first year, may audition in September for acceptance into the “double unit” Applied Study (performance) courses. In addition to their private lessons, students in these courses perform a public recital at the end of the year. Students who audition successfully register in MUSC 120/6.0 and MUSC 125/6.0 instead of MUSC 121/6.0 (and similarly in upper years). The MUSC #25/6.0 courses may be used towards the Music Option components of the B.Mus. degree.
   D. Applied Study Requirements: Students registered in MUSC 120/6.0, MUSC 121/6.0, MUSC 220/6.0 and MUSC 221/6.0 are required to attend six concerts per term, to a total of 12 concerts per academic session. This required concert attendance accounts for 10 per cent of the teacher’s component of the Applied Study mark at the end of the year.
   E. By the end of the second year, students are expected to have attained the Minimum Degree Level in their instrumental or vocal applied study (A proficiency equivalent to that of Grade X of the Royal Conservatory of Music).
Students who do not reach this level will be required to continue to study applied music, without additional credit, until this level is successfully achieved.
Physical Education – General (Physical Education) – Bachelor of Physical and Health Education

PHED-G-BPE

Subject: Administered by the School of Kinesiology and Health Studies.

Plan: Consists of 54.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, of which at least 54.0 units including the Plan units must be in the physical, and natural sciences or mathematics, will lead to a Bachelor of Physical and Health Education Degree.

1. CORE COURSES (36.0 units)
   A. 12.0 units in HLTH 101/3.0, KNPE 125/3.0, KNPE 153/3.0, KNPE 167/3.0
   B. 18.0 units in KNPE 225/3.0, KNPE 227/3.0, KNPE 255/3.0, KNPE 261/3.0, KNPE 265/3.0, KNPE 237/3.0
      (Required non-unit aquatics certification)
   C. 0.0 units in PACT P01/0.0
      (Required Practica)
   D. 3.0 units in PACT 100/3.0
   E. 3.0 units from PACT 200/3.0 or PACT 237/3.0

2. OPTION COURSES (6.0 units)
   A. 3.0 units from KNPE 203/3.0 or KNPE 331/3.0 or KNPE 333/3.0
   B. 3.0 units from PACT 300/3.0 or PACT 333/3.0 or PACT 335/3.0 or PACT 338/3.0

3. SUPPORTING COURSES (12.0 units)
   A. 6.0 units in PSYC 100/6.0
   B. 6.0 units in ANAT 315/3.0 and ANAT 316/3.0

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. No more than 39.0 units in KNPE may be used towards the requirements of a Bachelor of Physical and Health Education Program (i.e. no more than 9.0 units in KNPE may be used as electives)
   B. Previous to 2010/11, many KNPE courses had alternate course codes (KINE, PHED, PPHE). Previous codes with the same number as the corresponding KNPE course are considered equivalent for the purposes of fulfilling the Plan/Program requirements.
C. This Plan, unlike most other General Plans, may **not** be added to a Major to form a Major-Minor Plan combination.

D. This Plan, unlike most other General Plans, may **not** be requested as a course of study.
Physical Education – Specialization (Physical Education) – Bachelor of Physical and Health Education (Honours)

PHED-P-BPH

Subject: Administered by the School of Kinesiology and Health Studies.

Plan: Consists of 81.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Physical and Health Education (Honours) Degree.

1. **CORE COURSES (63.0 units)**
   A. 12.0 units in HLTH101/3.0, KNPE125/3.0, KNPE 153/3.0, KNPE 167/3.0
   B. 6.0 units in PSYC 100/6.0
   C. 18.0 units in KNPE 225/3.0; KNPE 227/3.0, KNPE 255/3.0, KNPE 261/3.0, KNPE 265/3.0, KNPE 237/3.0
   D. 9.0 units in KNPE 203/3.0, KNPE 331/3.0, KNPE 333/3.0
   E. 6.0 units in ANAT 315/3.0 and ANAT 316/3.0
   F. 0.0 units in PACT P01/0.0
   G. 3.0 units in PACT 100/3.0
   H. 3.0 units from PACT 200/3.0 or PACT 237/3.0
   I. 3.0 units from PACT 333/3.0
   J. 3.0 units from PACT 300/3.0; 335/3.0; 338/3.0; 403/3.0; 438/3.0.

2. **OPTION COURSES (18.0 units)**
   A. 6.0 units in KNPE; HLTH at the 400-level or above
   B. 6.0 units in KNPE; HLTH at the 300-level or above
   C. 6.0 units from HLTH at the 200-level or above

3. **SUPPORTING COURSES**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. NURS 323/3.0 is an allowable substitution for KNPE 251/3.0.

6. **NOTES**
   A. No more than 57.0 units in KNPE may be used towards the requirements of a Bachelor of Physical and Health Education (Honours) Program (i.e. no more than 9.0 units in KNPE may be used as electives)
B. Previous to 2010/11, many KNPE courses had alternate course codes (KINE, PHED, PPHE). Previous codes with the same number as the corresponding KNPE course are considered equivalent for the purposes of fulfilling the Plan/Program requirements.

C. Students interested in a career in teaching will need to satisfy the requirements for a second teaching subject in order to teach at certain levels within the elementary and secondary school systems. Students are expected to use their Arts and Science electives to meet the requirements for entry into Faculties of Education.

D. Students interested in being accepted into the Athletic Therapy or Strength and Conditioning “mini-stream” will apply at the end of first year for the limited number of spaces that are available. Students accepted into these streams will be permitted to access the entry level courses KNPE331/3.0 or KNPE 345/3.0 starting in their second year.
Philosophy – Major (Arts) – Bachelor of Arts (Honours)

PHIL-M-BAH

Subject: Administered by the Department of Philosophy.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (24.0 units)
   A. 6.0 units from PHIL at the 100-level
   B. 12.0 units in PHIL 250/6.0 and PHIL 257/6.0
   C. 3.0 units from PHIL 328/3.0; PHIL 329/3.0; PHIL 330/3.0; PHIL 335/3.0.
   D. 3.0 units in PHIL 361/3.0

2. OPTION COURSES (36.0 units)
   A. 6.0 unit from PHIL at the 400 or 500-level
   B. 15.0 units from PHIL at the 300-level or above; DEVS 309/3.0; INTS 306/3.0; IDIS 306/3.0; SOCY 363/3.0
   C. 15.0 unit from PHIL at the 200-level or above; DEVS 309/3.0; INTS 306/3.0; IDIS 306/3.0; SOCY 363/3.0

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. A student may register in a 500-level Directed Special Studies course, with permission of the Undergraduate Chair, to fulfill requirement 2A.
Philosophy – Medial (Arts) – Bachelor of Arts (Honours)

PHIL[----]-A or [----]PHIL-A (where [----] is a second subject of study)

Subject: Administered by the Department of Philosophy.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES 21.0 units**
   A. 6.0 units from PHIL at the 100-level
   B. 12.0 units in PHIL 250/6.0 and PHIL 257/6.0
   C. 3.0 units from PHIL 328/3.0; PHIL 329/3.0; PHIL 330/3.0; PHIL 335/3.0

2. **OPTION COURSES (21.0 units)**
   A. 6.0 unit from PHIL at the 400 or 500-level
   B. 6.0 units from PHIL at the 300-level or above
   C. 9.0 units from PHIL at the 200-level or above; DEVS 309/3.0; INTS 306/3.0; *IDIS 306/3.0; SOCY 363/3.0*

3. **ADDITIONAL REQUIREMENTS**
   (none)

4. **SUPPORTING COURSES (0.0 units)**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. A student may register in a 500-level Directed Special Studies course, with permission of the Undergraduate Chair, to fulfill requirement **2A**.
**Philosophy – Minor (Arts)**

PHIL-Y

Subject: Administered by the Department of Philosophy.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

**Philosophy – General (Arts) – Bachelor of Arts**

PHIL-G-BA

Subject: Administered by the Department of Philosophy.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (12.0 units)**
   A. 6.0 units from PHIL at the 100-level
   B. 6.0 units from PHIL 250/6.0 or PHIL 257/6.0

2. **OPTION COURSES (18.0 units)**
   A. 18.0 unit from PHIL at the 200-level or above; DEVS 309/3.0; INTS 306/3.0 or *IDIS 306/3.0; SOCY 363/3.0*

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   (none)
Physics – Major (Science) – Bachelor of Science (Honours)

PHYS-M-BSH

Subject: Administered by the Department of Physics, Engineering Physics & Astronomy.

Plan: Consists of 72.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (51.0 units)**
   
   A. 6.0 units from PHYS 104/6.0 or PHYS 106/6.0
   
   B. 15.0 units in PHYS 206/3.0, PHYS 212/3.0, PHYS 239/3.0, PHYS 242/3.0, PHYS 250/3.0
   
   C. 3.0 units from MATH 221/3.0 or MATH 280/3.0
   
   D. 3.0 units from MATH 232/3.0 or MATH 231/3.0
   
   E. 15.0 units in PHYS 313/3.0, PHYS 344/3.0, PHYS 345/3.0, PHYS 350/3.0, PHYS 372/3.0
   
   F. 6.0 units from PHYS 312/6.0 or (MATH 228/3.0 and MATH 338/3.0)
   
   G. 3.0 units in PHYS 432/3.0

2. **OPTION COURSES (9.0 units)**
   
   A. 6.0 units from PHYS 315/3.0; PHYS at the 400-level or above
   
   B. 3.0 units from PHYS 216/3.0; PHYS at the 300-level or above

3. **SUPPORTING COURSES (12.0 units)**
   
   A. 6.0 units from MATH 111/6.0 or MATH 110/6.0
   
   B. 6.0 units from MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0)

4. **ADDITIONAL REQUIREMENTS**
   
   (none)

5. **SUBSTITUTIONS**
   
   (none)

6. **NOTES**
   
   (none)
Physics – Minor (Science)

PHYS-Z

Subject: Administered by the Department of Physics, Engineering Physics & Astronomy.

Plan: Consists of 48.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Physics – General (Science) – Bachelor of Science

PHYS-G-BSC

Subject: Administered by the Department of Physics, Engineering Physics & Astronomy.

Plan: Consists of 48.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, of which at least 48.0 units including the Plan units must be in the physical, and natural sciences or mathematics, will lead to a Bachelor of Science Degree.

1. **CORE COURSES (30.0 units)**
   - A. 6.0 units from PHYS 104/6.0 or PHYS 106/6.0
   - B. 15.0 units in PHYS 206/3.0, PHYS 212/3.0, PHYS 239/3.0, PHYS 242/3.0, PHYS 250/3.0
   - C. 9.0 units in PHYS 313/3.0, PHYS 344/3.0, PHYS 372/3.0

2. **OPTION COURSES (6.0 units)**
   - A. 6.0 units from PHYS 216/3.0; PHYS at the 300-level or above

3. **SUPPORTING COURSES (12.0 units)**
   - A. 6.0 units from MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0)
   - B. 6.0 units from (MATH 221/3.0 or MATH 280/3.0) and (MATH 232/3.0 or MATH 231/3.0)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)
6. **NOTES**
   A. When used towards the requirements of a BSc Program, a total of 48.0 units, including the Plan units, must be in the physical and natural sciences or mathematics.
Physics – Minor (Arts)

PHYS-Y

Subject: Administered by the Department of Physics, Engineering Physics & Astronomy.

Plan: Consists of 36.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Physics – General (Arts) – Bachelor of Arts

PHYS-G-BA

Subject: Administered by the Department of Physics, Engineering Physics & Astronomy.

Plan: Consists of 36.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (6.0 units)**  
   A. 6.0 units from PHYS 104/6.0 or PHYS 106/6.0

2. **OPTION COURSES (24.0 units)**  
   A. 15.0 units from PHYS at the 200-level or above.  
   B. 9.0 units from PHYS P10/3.0; PHYS P15/3.0; PHYS P16/3.0; PHYS P20/3.0; PHYS at the 200-level or above.

3. **SUPPORTING COURSES (6.0 units)**  
   A. 6.0 units from MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0)

4. **ADDITIONAL REQUIREMENTS**  
   (none)

5. **SUBSTITUTIONS**  
   (none)

6. **NOTES**  
   (none)
Physics – Specialization (Science) – Bachelor of Science (Honours)

PHYS-P-BSH

Subject: Administered by the Department of Physics, Engineering Physics & Astronomy.

Plan: Consists of 96.0 units as described below.

Program: The Plan, together with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (90.0 units)**
   A. 6.0 units from PHYS 104/6.0 or PHYS 106/6.0
   B. 6.0 units from MATH 110/6.0 or MATH 111/6.0
   C. 6.0 units from MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0)
   D. 6.0 units in CHEM 112/6.0
   E. 15.0 units in PHYS 206/3.0, PHYS 212/3.0, PHYS 239/3.0, PHYS 242/3.0, PHYS 250/3.0
   F. 3.0 units from MATH 280/3.0 or MATH 221/3.0
   G. 3.0 units from MATH 231/3.0 or MATH 232/3.0
   H. 24.0 units in PHYS 312/6.0, PHYS 313/3.0, PHYS 321/3.0, PHYS 344/3.0, PHYS 345/3.0, PHYS 350/3.0, PHYS 372/3.0
   I. 18.0 units in PHYS 432/3.0, PHYS 444/3.0, PHYS 453/3.0, PHYS 490/3.0, PHYS 590/6.0
   J. 3.0 units from PHYS 480/3.0 or PHYS 380/3.0

2. **OPTION COURSES (6.0 units)**
   A. 6.0 units from PHYS at the 400-level or above

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   (none)
Political Studies – Major (Arts) – Bachelor of Arts (Honours)

POLS-M-BAH

Subject: Administered by the Department of Political Studies.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (15.0 units)
   A. 6.0 units in POLS 110/6.0
   B. 6.0 units in POLS 250/6.0
   C. 3.0 units in POLS 384/3.0

2. OPTION COURSES (45.0 units)
   A. 12.0 units from POLS at the 400-level or above
   B. 12.0 units from POLS at the 300-level or above; POLS_Subs
   C. 21.0 units from POLS at the 200-level or above; POLS_Subs

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   A. Maximum 12.0 units may be chosen from POLS_Subs

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. POLS courses at the 300-level or above may be counted for Option Courses 2.C., with approval from the Department.
Political Studies – Medial (Arts) – Bachelor of Arts (Honours)

POLS[----]-A or [----]POLS-A (where [----] is a second subject of study)

Subject: Administered by the Department of Political Studies.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (15.0 units)
   A. 6.0 units in POLS 110/6.0
   B. 6.0 units in POLS 250/6.0
   C. 3.0 units in POLS 384/3.0

2. OPTION COURSES (27.0 units)
   A. 6.0 units from POLS at the 400-level or above
   B. 6.0 units from POLS at the 300-level or above; POLS_Subs
   C. 15.0 units from POLS at the 200-level or above; POLS_Subs

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   A. Maximum 6.0 units may be chosen from the POLS_Subs

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. POLS courses at the 300-level or above may be counted for Option Courses 2.C., with approval from the Department.
Political Studies – Minor (Arts)

POLS-Y

Subject: Administered by the Department of Political Studies.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Political Studies – General (Arts) – Bachelor of Arts

POLS-G-BA

Subject: Administered by the Department of Political Studies.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (6.0 units)**
   A. 6.0 units in POLS 110/6.0

2. **OPTION COURSES (24.0 units)**
   A. 24.0 units from POLS at the 200-level

3. **SUPPORTING COURSES (0.0 credits)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. POLS courses at the 300-level may be counted for Option Courses 2.A., with approval from the Department.
Psychology – Major (Science) – Bachelor of Science (Honours)

PSYC-M-BSH

Subject: Administered by the Department of Psychology.

Plan: Consists of 72.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (18.0 units)**
   A. 6.0 units in PSYC 100/6.0
   B. 6.0 units in PSYC 202/3.0 and PSYC 203/3.0
   C. 6.0 units in PSYC 300/6.0

2. **OPTION COURSES (42.0 units)**
   A. 6.0 units from PSYC 205/3.0; PSYC 215/3.0; PSYC 221/3.0; PSYC 271/3.0; PSYC 220/6.0
   B. 6.0 units from PSYC 231/3.0; PSYC 235/6.0; PSYC 241/3.0; PSYC 251/3.0
   C. 3.0 units from PSYC_Labs
   D. 6.0 units from PSYC_Cluster_A; COGS 300/3.0
   E. 6.0 units from PSYC_Cluster_B; COMM 352/3.0; INTS 306/3.0
   F. 9.0 units chosen from Option List 2Fi or 2Fii
      i. **Seminar Option (9.0 units)**
         a. 9.0 units from PSYC at the 400-level
      ii. **Thesis Option (9.0 units)**
         a. 9.0 units in PSYC 501/9.0
   G. 3.0 units from PSYC at the 300-level or above; COGS 300/3.0; COMM 352/3.0; INTS 306/3.0
   H. 3.0 units from PSYC at the 200-level or above.

3. **SUPPORTING COURSES (12.0 units)**
   A. 12.0 units from (BIOL 102/3.0 and BIOL 103/3.0); (CHEM 112/6.0 or CHEM 116/6.0); (CISC 121/3.0 and CISC 124/3.0); MATH at the 100-level; (PHYS 104/6.0 or PHYS 106/6.0 or PHYS 117/6.0 or PHYS 107/6.0)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. PSYC 202/3.0, PSYC 203/3.0 and PSYC 300/6.0 may not be substituted by an equivalent course from another university. Letters of Permission will only be granted in extraordinary cases. PSYC 202/3.0 may be substituted by an equivalent course from another Department at Queen’s with permission of the Chair of Undergraduate Studies. These courses may not be repeated, except with the permission of the Chair of Undergraduate Studies.
6. NOTES
   A. Students are advised that admission to a graduate program in Psychology
      normally requires the completion of an undergraduate thesis, such as PSYC
      501/9.0, although this does not necessarily apply to Counseling programs.
Psychology – Major (Arts) – Bachelor of Arts (Honours)

PSYC-M-BAH

Subject: Administered by the Department of Psychology.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (18.0 units)
   A. 6.0 units in PSYC 100/6.0
   B. 6.0 units in PSYC 202/3.0 and PSYC 203/3.0
   C. 6.0 units in PSYC 300/6.0

2. OPTION COURSES (42.0 units)
   A. 6.0 units from PSYC 205/3.0; PSYC 215/3.0; PSYC 221/3.0; PSYC 271/3.0; PSYC 220/6.0
   B. 6.0 units from PSYC 231/3.0; PSYC 241/3.0; PSYC 235/6.0; PSYC 251/3.0
   C. 9.0 units from Option List 2Ci or 2Cii
      i. Seminar Option (9.0 units)
         a. 9.0 units from PSYC at the 400-level
      ii. Thesis Option (9.0 units)
         a. 9.0 units in PSYC 501/9.0
   D. 6.0 units from PSYC_Cluster_B; COMM 352/3.0; INTS 306/3.0
   E. 6.0 units from PSYC_Cluster_A; COGS 300/3.0
   F. 6.0 units from PSYC at the 300-level or above; COGS 300/3.0; COMM 352/3.0; INTS 306/3.0
   G. 3.0 units from PSYC at the 200-level or above; COGS 300/3.0; COMM 352/3.0; INTS 306/3.0

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   A. PSYC 202/3.0, PSYC 203/3.0 and PSYC 300/6.0 may not be substituted by an equivalent course from another university. Letters of Permission will only be granted in extraordinary cases. PSYC 202/3.0 may be substituted by an equivalent course from another Department at Queen’s with permission of the Chair of Undergraduate Studies. These courses may not be repeated, except with the permission of the Chair of Undergraduate Studies.
6. **NOTES**
   A. Students are advised that admission to a graduate program in Psychology normally requires the completion of an undergraduate thesis, such as PSYC 501/9.0, although this does not necessarily apply to Counseling programs.
Psychology – Medial (Arts) – Bachelor of Arts (Honours)

PSYC[----]-A or [----]PSYC-A (where [----] is a second subject of study)

Subject: Administered by the Department of Psychology.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (12.0 units)**
   A. 6.0 units in PSYC 100/6.0
   B. 6.0 units in PSYC 202/3.0 and PSYC 203/3.0

2. **OPTION COURSES (30.0 units)**
   A. 6.0 units from PSYC 205/3.0; PSYC 215/3.0; PSYC 221/3.0; PSYC 271/3.0; *PSYC 220/6.0*
   B. 6.0 units from PSYC 231/3.0; PSYC 235/6.0; PSYC 241/3.0; PSYC 251/3.0
   C. 12.0 units from PSYC at the 300-level or above; COGS 300/3.0; COMM 352/3.0; INTS 306/3.0
   D. 6.0 units from PSYC at the 200-level or above; COGS 300/3.0; COMM 352/3.0; INTS 306/3.0

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   E. PSYC 202/3.0 and PSYC 203/3.0 may not be substituted by an equivalent course from another university. Letters of Permission will only be granted in extraordinary cases. PSYC 202/3.0 may be substituted by an equivalent course from another Department at Queen’s with permission of the Chair of Undergraduate Studies. These courses may not be repeated, except with the permission of the Chair of Undergraduate Studies.

6. **NOTES**
   (none)
Psychology – Minor (Arts)

PSYC-Y

Subject: Administered by the Department of Psychology.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Psychology – General (Arts) – Bachelor of Arts

PSYC-G-BA

Subject: Administered by the Department of Psychology.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. CORE COURSES (6.0 units)
   A. 6.0 units in PSYC 100/6.0

2. OPTION COURSES (24.0 units)
   A. 24.0 units from PSYC at the 200-level or above; COGS 300/3.0; COMM 352/3.0; INTS 306/3.0

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. This Plan does not require courses above the 200-level. Due to high demand, students in this Plan will not be permitted to register in a 300-level PSYC course during the summer course selection period if they have already completed, or are registered in, another PSYC course at the 300-level or above. This restriction is lifted during the open enrolment period.
Religious Studies – Major (Arts) – Bachelor of Arts (Honours)

RELS-M-BAH

Subject: Administered by the Department of Religious Studies.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (15.0 units)**
   A. 6.0 unit from RELS 131/6.0 or RELS 161/6.0  
   B. 6.0 units from (RELS 354/3.0 and RELS 355/3.0) or RELS 353/6.0  
   C. 3.0 units from RELS 401/3.0 or RELS 451/6.0

2. **OPTION COURSES (45.0 units)**
   A. 6.0 units from RELS_List_A  
   B. 3.0 units from RELS_List_B  
   C. 6.0 units from RELS_List_C  
   D. 18.0 units from RELS  
   E. 12.0 units from RELS; RELS_Subs

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   A. Minimum 24.0 units must be at the 300-level or above

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. Students wishing to use THEO courses towards a plan in Religious Studies must make application for approval to the Department.
Religious Studies – Medial (Arts) – Bachelor of Arts (Honours)

RELS[----]-A or [----]RELS-A (where [----] is a second subject of study)

Subject: Administered by the Department of Religious Studies.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (15.0 units)
   A. 6.0 unit from RELS 131/6.0 or RELS 161/6.0
   B. 6.0 units from RELS 354/3.0 and RELS 355/3.0 or RELS 353/6.0
   C. 3.0 units from RELS 401/3.0 or RELS 451/6.0

2. OPTION COURSES (27.0 units)
   A. 6.0 units from RELS_List_A
   B. 3.0 units from RELS_List_B
   C. 3.0 units from RELS_List_C
   D. 3.0 units from RELS
   E. 12.0 units from RELS; RELS_Subs

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   A. Minimum 12.0 units must be at the 300-level or above

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Students wishing to use THEO courses towards a plan in Religious Studies must make application for approval to the Department.
Religious Studies – Minor (Arts)

RELS-Y

Subject: Administered by the Department of Religious Studies.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Religious Studies – General (Arts) – Bachelor of Arts

RELS-G-BA

Subject: Administered by the Department of Religious Studies.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. CORE COURSES (9.0 units)
   A. 6.0 units from RELS 131/6.0 or RELS 161/6.0
   B. 3.0 units from RELS 354/3.0 or RELS 353/6.0

2. OPTION COURSES (21.0 units)
   A. 3.0 units from RELS_List_A
   B. 3.0 units from RELS_List_B
   C. 9.0 units from RELS
   D. 6.0 units from RELS; RELS_Subs

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   A. Students wishing to use THEO courses towards a plan in Religious Studies must make application for approval to the Department.
Spanish Latin American Studies – Minor (Arts)

SLAS-Y

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Spanish Latin American Studies – General (Arts) – Bachelor of Arts

SLAS-G-BA

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelors of Arts Degree.

1. **CORE COURSES (18.0 units)**
   A. 6.0 units from (SPAN P10/3.0 and SPAN 112/3.0) or SPAN 101/6.0
   B. 6.0 units from (SPAN 204/3.0 and SPAN 205/3.0) or SPAN 201/6.0
   C. 6.0 units from (SPAN 351/3.0 and SPAN 352/3.0) or SPAN 251/6.0

2. **OPTION COURSES (12.0 units)**
   A. 6.0 units from SLAS_Options_A
   B. 6.0 units from SLAS_Options_A; SLAS_Options_B

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. The courses chosen must not duplicate work already completed either in university or pre-university study. If a student enters the program with advanced language/grammar knowledge or speaks Spanish at the near-native level, the student is exempted from taking the language and grammar core courses noted in 1A and 1B. These would be replaced with courses from SLAS_Options_A or SLAS_Options_B.
B. To register in SPAN P10/3.0 or SPAN 101/6.0 students must sign a form in the Departmental Office officially declaring that they have no knowledge of Spanish. A language placement test may apply.

C. Some courses in SLAS_Option_B may or may not cover topics directly involving Spanish Latin American Studies, although students may approach instructors to see if assignments or papers could be written from this perspective.

D. Students must refer to the managing Department of Languages, Literatures and Cultures to find a suitable substitution(s) if necessary.
Sociology – Major (Arts) – Bachelor of Arts (Honours)

SOCY-M-BAH

Subject: Administered by the Department of Sociology.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (27.0 units)**
   A. 6.0 units in SOCY 122/6.0
   B. 6.0 units in SOCY 210/3.0 and SOCY 211/3.0
   C. 6.0 units from (SOCY 226/3.0 and SOCY 227/3.0) or SOCY 221/6.0
   D. 3.0 units in SOCY 321/3.0
   E. 6.0 units from (SOCY325/3.0 and SOCY 326/3.0) or SOCY 322/6.0

2. **OPTION COURSES (33.0 units)**
   A. 9.0 units from SOCY at the 400-level or above; POLS 485/3.0
   B. 12.0 units from SOCY at the 300-level or above; DEVS 305/3.0; ENSC 305/3.0; INTS 307/3.0; KINE 367/3.0; POLS 485/3.0
   C. 12.0 units from SOCY at the 200-level or above; PHED 241/3.0; DEVS 305/3.0; ENSC 305/3.0; INTS 307/3.0; KINE 367/3.0; KNPE 367/3.0; POLS 485/3.0

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. If an approved course is taken in another department in place of SOCY 211/3.0, an additional 3.0 units SOCY option is required as part of the SOCY concentration.

6. **NOTES**
   (none)
Sociology – Medial (Arts) – Bachelor of Arts (Honours)

SOCY[----]-A or [----]SOCY-A (where [----] is a second subject of study)

Subject: Administered by the Department of Sociology.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (27.0 units)**
   A. 6.0 units in SOCY 122/6.0
   B. 6.0 units in SOCY 210/3.0 and SOCY 211/3.0
   C. 6.0 units from (SOCY 226/3.0 and SOCY 227/3.0) or SOCY 221/6.0
   D. 3.0 units in SOCY 321/3.0
   E. 6.0 units from (SOCY325/3.0 and SOCY 326/3.0) or SOCY 322/6.0

2. **OPTION COURSES (15.0 units)**
   A. 6.0 units from SOCY at the 400-level or above; POLS 485/3.0
   B. 9.0 units from SOCY at the 200-level or above; PHED 241/3.0; DEVS 305/3.0; ENSC 305/3.0; INTS 307/3.0; KINE 367/3.0; KNPE 367/3.0; POLS 485/3.0

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. If an approved course is taken in another department in place of SOCY 211/3.0, an additional 3.0 units SOCY option is required as part of the SOCY concentration.

6. **NOTES**
   (none)
Sociology – Minor (Arts)

SOCY-Y

Subject: Administered by the Department of Sociology.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Sociology – General (Arts) – Bachelor of Arts

SOCY-G-BA

Subject: Administered by the Department of Sociology.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (18.0 units)**
   A. 6.0 units in SOCY 122/6.0
   B. 6.0 units in SOCY 210/3.0 and SOCY 211/3.0
   C. 6.0 units from (SOCY 226/3.0 and SOCY 227/3.0) or SOCY 221/6.0

2. **OPTION COURSES (12.0 units)**
   A. 6.0 units from SOCY at the 300-level; DEVS 305/3.0; ENSC 305/3.0; INTS 307/3.0; KINE 367/3.0; KNPE 367/3.0; POLS 485/3.0
   B. 6.0 units from SOCY at the 200-level; PHED 241/3.0; DEVS 305/3.0; ENSC 305/3.0; INTS 307/3.0; KINE 367/3.0; KNPE 367/3.0; POLS 485/3.0

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. If an approved course is taken in another department in place of SOCY 211/3.0, an additional 3.0 units SOCY option is required as part of the SOCY concentration.

6. **NOTES**
   (none)
Software Design – Specialization (Computing) – Bachelor of Computing (Honours)

SODE-P-BCH (Software Design)
SODE-I-BCH (with internship)

Subject: Administered by the School of Computing

Plan: Consists of 108.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Computing (Honours) Degree.

1. **CORE COURSES (75.0 units)**
   A. 6.0 units in CISC 121/3.0 and CISC 124/3.0
   B. 6.0 units from MATH 111/6.0 or MATH 110/6.0
   C. 6.0 units from MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0)
   D. 3.0 units in STAT 263/3.0
   E. 21.0 units in CISC 203/3.0, CISC 204/3.0, CISC 220/3.0, CISC 221/3.0, CISC 223/3.0, CISC 235/3.0, CISC 260/3.0
   F. 3.0 units from CISC 322/3.0 or CISC 326/3.0
   G. 9.0 units in CISC 324/3.0, CISC 340/3.0, CISC 365/3.0
   H. 3.0 units from CISC 325/3.0 or SOFT 325/3.0
   I. 3.0 units from CISC 327/3.0 or SOFT 327/3.0
   J. 3.0 units from CISC 423/3.0 or SOFT 423/3.0
   K. 6.0 units in CISC 422/3.0, CISC 497/3.0
   L. 6.0 units in CISC 498/6.0

2. **OPTION COURSES (33.0 units)**
   (Applications)
   A. 3.0 units from SOFT_Design at the 400 level
   B. 3.0 units from SOFT_Design
   (Complementary Courses)
   C. 3.0 units from WRIT 175/3.0 or MECH 380/3.0 or PHIL 158/3.0
   D. 3.0 units from COMM 200/3.0 or COMM 244/3.0 or APSC 221/3.0
   E. 3.0 units from the humanities, languages, or social sciences
   F. 18.0 units from any discipline other than CISC, SOFT, MATH, STAT

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
A. Students in the internship version of this Plan will substitute 6.0 units from COMP at the 300-level for requirement 1-L (CISC 498/6.0). In addition, the B.Cmp. Program requirements will be increased by 3.0 units from COMP at the 300-level, for a total of 123.0 units if the student is taking a 12 month internship or by 6.0 units from COMP at the 300-level, for a total of 126.0 units, if the student is taking a 16 month internship.

6. NOTES
   A. Those students with no programming experience should review first year course choices based on the Section on Introductory Courses at the start of the chapter on Computing.
   B. In exceptional circumstances (such as a student who has transferred from another faculty or institution), the distribution requirements in the complementary courses may be relaxed, at the discretion of the Chair of Undergraduate Studies. Alternative complementary courses may be selected in consultation with the School of Computing.
   C. ELEC courses are offered by the Faculty of Engineering and Applied Science. Special permission may be required to register. All such courses will count as 3.0 units towards degree requirements in Arts and Sciences.
Spanish – Major (Arts) – Bachelor of Arts (Honours)

SPAN-M-BAH

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. CORE COURSES (42.0 units)
   A. 6.0 units from (SPAN P10/3.0 and SPAN 112/3.0) or SPAN 101/6.0
   B. 6.0 units from (SPAN 204/3.0 and 205/3.0) or SPAN 201/6.0
   C. 18.0 units-from SPAN 247/3.0; SPAN 248/3.0; SPAN 251/6.0; SPAN 261/6.0; SPAN 351/3.0; SPAN 352/3.0; SPAN 380/3.0; SPAN 381/3.0.
   D. 6.0 units from (SPAN 301/3.0 and SPAN 302/3.0) or (SPAN 303/3.0 and SPAN 304/3.0)
   E. 6.0 units in SPAN 401/3.0 and SPAN 402/3.0

2. OPTION COURSES (18.0 units)
   A. 12.0 units from SPAN at the 300-level or above
   B. 6.0 units from SPAN; IDIS 200/6.0; IDIS 201/6.0

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   A. Up to 6.0 units in ITLN may be substituted if SPAN P10/3.0 and/or SPAN 112/3.0 is not included in the Plan.

6. NOTES
   A. The courses chosen must not duplicate work already completed either in university or pre-university study. If a student enters the program with advanced language/grammar knowledge or speaks Spanish at the near-native level, the student is exempted from taking the language and grammar core courses noted in 1A, 1B, 1D and 1E. These would be replaced with SPAN options.

   B. To register in SPAN P10/3.0 or ITLN P10/3.0 students must sign a form in the Departmental Office officially declaring that they have no knowledge of Spanish or Italian at all. A language placement test may apply.
Spanish – Medial (Arts) – Bachelor of Arts (Honours)

SPAN[----]-A or [----]SPAN-A (where [----] is a second subject of study)

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (27.0 units)**
   A. 6.0 units from (SPAN P10/3.0 and SPAN 112/3.0) or *SPAN 101/6.0*
   B. 6.0 units from (SPAN 204/3.0 and 205/3.0) or *SPAN 201/6.0*
   C. 3.0 units from SPAN 247/3.0 or SPAN 248/3.0
   D. 6.0 units from *SPAN 251/6.0; SPAN 261/6.0; SPAN 351/3.0; SPAN 352/3.0; SPAN 380/3.0; SPAN 381/3.0*
   E. 6.0 units from (SPAN 301/3.0 and SPAN 302/3.0) or (SPAN 303/3.0 and SPAN 304/3.0)

2. **OPTION COURSES (15.0 units)**
   A. 12.0 units from SPAN at the 300-level or above
   B. 3.0 units from SPAN; IDIS 200/6.0; IDIS 201/6.0

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   A. Up to 6.0 units in ITLN may be substituted if SPAN P10/3.0 and/or SPAN 112/3.0 is not included in the Plan.

6. **NOTES**
   A. The courses chosen must not duplicate work already completed either in university or pre-university study. If a student enters the program with advanced language/grammar knowledge or speaks Spanish at the near-native level, the student is exempted from taking the language and grammar core courses noted in 1A, 1B, and 1E. These would be replaced with SPAN options.
   B. To register in SPAN P10/3.0 or ITLN P10/3.0 students must sign a form in the Departmental Office officially declaring that they have no knowledge of Spanish or Italian at all. A language placement test may apply.
Spanish – Minor (Arts)

SPAN-Y

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major Plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Spanish – General (Arts) – Bachelor of Arts

SPAN-G-BA

Subject: Administered by the Department of Languages, Literatures and Cultures.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. **CORE COURSES (24.0 units)**
   A. 6.0 units from (SPAN P10/3.0 and SPAN 112/3.0) or SPAN 101/6.0
   B. 6.0 units from (SPAN 204/3.0 and 205/3.0) or SPAN 201/6.0
   C. 6.0 units from SPAN 251/6.0; SPAN 261/6.0; SPAN 351/3.0; SPAN 352/3.0; SPAN 380/3.0; SPAN 381/3.0
   D. 6.0 units from (SPAN 301/3.0 and SPAN 302/3.0) or (SPAN 303/3.0 and SPAN 304/3.0)

2. **OPTION COURSES (6.0 units)**
   A. 6.0 units from SPAN; IDIS 200/6.0; IDIS 201/6.0

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   A. The courses chosen must not duplicate work already completed either in university or pre-university study. If a student enters the program with advanced language/grammar knowledge or speaks Spanish at the near-native level, the
student is exempted from taking the language and grammar core courses noted in 1A, 1B, and 1D. These would be replaced with SPAN options.

B. To register in SPAN P10/3.0 or ITLN P10/3.0 students must sign a form in the Departmental Office officially declaring that they have no knowledge of Spanish or Italian at all. A language placement test may apply.
Statistics – Major (Science) – Bachelor of Science (Honours)

STAT-M-BSH

Subject: Administered by the Department of Mathematics and Statistics.

Plan: Consists of 60.0 units as described below.

Program: The Plan, alone, or in combination with a Minor in another subject, and with sufficient electives to total 120.0 units, will lead to a Bachelor of Science (Honours) Degree.

1. **CORE COURSES (33.0 units)**
   - A. 12.0 units in MATH 110/6.0, MATH 120/6.0
   - B. 6.0 units in MATH 280/3.0 and MATH 281/3.0
   - C. 6.0 units from (STAT 268/3.0 and STAT 269/3.0) or (STAT 251/3.0 and STAT 261/3.0)
   - D. 6.0 units in STAT 353/3.0, STAT 361/3.0
   - E. 3.0 units from STAT 463/3.0 or STAT 363/3.0

2. **OPTION COURSES (27.0 units)**
   - A. 9.0 units from MATH 312/3.0; MATH 328/3.0; MATH 337/3.0; MATH 384/3.0; MATH 385/3.0
   - B. 12.0 units from MATH 421; STAT 455/3.0; STAT 460/3.0; STAT 462/3.0; STAT 464/3.0; STAT 471/3.0; STAT 473/3.0; STAT 486/3.0; STAT 569/3.0
   - C. 6.0 units from MATH; STAT; BIOM at the 300-level or above

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   (none)
Statistics – Minor (Science)

STAT-Z

Subject: Administered by the Department of Mathematics and Statistics.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Statistics – General (Science) – Bachelor of Science

STAT-G-BSC

Subject: Administered by the Department of Mathematics and Statistics.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, of which at least 48.0 units including the Plan units must be in the physical, and natural sciences or mathematics, will lead to a Bachelor of Science Degree.

1. CORE COURSES (21.0 units)
   A. 6.0 units from MATH 110/6.0 or MATH 111/6.0 or (MATH 112/3.0 and MATH; STAT; BIOM at the 200-level or above)
   B. 6.0 units from MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0) or MATH 126/6.0
   C. 3.0 units from MATH 221/3.0 or MATH 280/3.0
   D. 6.0 units from (STAT 251/3.0 and STAT 261/3.0) or (STAT 268/3.0 and STAT 269/3.0) or (STAT 263/3.0 or STAT 351/3.0)

2. OPTION COURSES (9.0 units)
   A. 6.0 units from STAT 361/3.0; (STAT 363/3.0 or STAT 463/3.0); STAT 464/3.0; STAT 465/3.0
   B. 3.0 units from MATH; STAT; BIOM at the 200-level or above

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)
6. **NOTES**
   
   A. When used towards the requirements of a BSc Program, a total of 48.0 units, including the Plan units, must be in the physical and natural sciences or mathematics.
Statistics – Medial (Arts) – Bachelor of Arts (Honours)

STAT[----]-A or [----]STAT-A (where [----] is a second subject of study)

Subject: Administered by the Department of Mathematics and Statistics.

Plan: Consists of 42.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (33.0 units)**
   A. 6.0 units from MATH 110/6.0 or MATH 111/6.0
   B. 6.0 units from MATH 120/6.0 or MATH 121/6.0
   C. 3.0 units from MATH 280/3.0 or MATH 221/3.0
   D. 6.0 units from (STAT 268/3.0 and STAT 269/3.0) or (STAT 263/3.0 and STAT 351/3.0) or (STAT 251/3.0 and STAT 261/3.0)
   E. 12.0 units from STAT 353/3.0, STAT 361/3.0, (STAT 363/3.0 or STAT 463/3.0); STAT 465/3.0

2. **OPTION COURSES (9.0 units)**
   A. 3.0 units from STAT 455/3.0 or STAT 460/3.0 or STAT 462/3.0 or STAT 464/3.0
   B. 6.0 units from MATH; STAT, BIOM at the 200 level or above.

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **ADDITIONAL REQUIREMENTS**
   (none)

5. **SUBSTITUTIONS**
   (none)

6. **NOTES**
   (none)
Statistics – Minor (Arts)

STAT-Y

Subject: Administered by the Department of Mathematics and Statistics.

Plan: Consists of 30.0 units as described below.

Program: The Plan, in combination with a Major plan in another subject, and with sufficient electives, will lead to an Honours Bachelors Degree.

Statistics – General (Arts) – Bachelor of Arts

STAT-G-BA

Subject: Administered by the Department of Mathematics and Statistics.

Plan: Consists of 30.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units, will lead to a Bachelor of Arts Degree.

1. CORE COURSES (21.0 units)
   A. 6.0 units from MATH 110/6.0 or MATH 111/6.0 or (MATH 112/3.0 and MATH; STAT; BIOM at the 200-level or above)
   B. 6.0 units from MATH 120/6.0 or MATH 121/6.0 or (MATH 123/3.0 and MATH 124/3.0) or MATH 126/6.0
   C. 3.0 units from MATH 221/3/0 or MATH 280/3.0
   D. 6.0 units from (STAT 268/3.0 and STAT 269/3.0) or (STAT 263/3.0 and STAT 351/3.0) or (STAT 251/3.0 and STAT 261/3.0)

2. OPTION COURSES (9.0 units)
   A. 6.0 units from STAT 361/3.0; (STAT 363/3.0 or STAT 463/3.0); STAT 464/3.0; STAT 465/3.0
   B. 3.0 units from MATH; STAT; BIOM at the 200-level or above

3. SUPPORTING COURSES (0.0 units)
   (none)

4. ADDITIONAL REQUIREMENTS
   (none)

5. SUBSTITUTIONS
   (none)

6. NOTES
   (none)
Stage and Screen – Specialization (Arts) – Bachelor of Arts (Honours)

STSC-P-BAH

Subject: Administered by the Departments of Drama and Film and Media.

Plan: Consists of 84.0 units as described below.

Program: The Plan, with sufficient electives to total 114.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. **CORE COURSES (48.0 units)**
   A. 6.0 units from DRAM 100/6.0 or DRAM 181/6.0
   B. 6.0 units from FILM 110/6.0 or (FILM 104/3.0 and FILM 106/3.0)
   C. 12.0 units in DRAM 205/3.0, DRAM 251/3.0, FILM 250/6.0
   D. 6.0 units from (DRAM 201/3.0 and DRAM 202/3.0) or DRAM 210/6.0
   E. 6.0 units from FILM 206/3.0; FILM 216/3.0; FILM 226/3.0; FILM 236/3.0; FILM 240/3.0
   F. 3.0 units from DRAM 237/3.0 or DRAM 238/3.0
   G. 6.0 units from FILM 355/6.0; FILM 375/6.0; FILM 385/6.0
   H. 3.0 units from STSC 300/3.0; STSC 309/3.0

2. **OPTION COURSES (36.0 units)**
   A. 3.0 units from DRAM at the 400-level
   B. 3.0 units from FILM at the 400-level
   C. 6.0 units from DRAM at the 300-level
   D. 6.0 units from DRAM
   E. 9.0 units from FILM
   F. 3.0 units from STSC 300/3.0; STSC 309/3.0; DRAM; FILM
   G. 6.0 units from ARTF; ARTH; MUSC; DRAM 216/3.0; IDIS 311/3.0; IDIS 410/3.0

3. **SUPPORTING COURSES (0.0 units)**
   (none)

4. **SUBSTITUTIONS**
   (none)

5. **ADDITIONAL REQUIREMENTS**
   (none)

6. **NOTES**
   A. In choosing Options in Film, students may take any FILM course noted in the *Calendar*, subject to pre-requisites
   B. In choosing Options in Drama, students should follow one of the following course streams to ensure that they acquire the appropriate pre-requisites in order to access fourth-year courses.
Acting: DRAM 237/3.0; DRAM 330/6.0 or (DRAM 331/3.0 and DRAM 373/3.0); DRAM 431/6.0

Playwriting: DRAM 251/3.0; DRAM 350/6.0 or (DRAM 351/3.0 and DRAM 451/3.0)

Design: (DRAM 240/3.0 and DRAM 241/3.0); (DRAM 342/3.0 or DRAM 344/3.0); DRAM 541/3.0

Technical: (DRAM 240/3.0 and DRAM 242/3.0 or DRAM 245/6.0); DRAM 345/3.0; (DRAM 541/3.0 or DRAM 545/3.0)

Directing: DRAM 210/6.0; (DRAM 240/3.0 and DRAM 241/3.0 or DRAM 245/6.0); (DRAM 310/3.0 and DRAM 323/3.0); DRAM 422/3.0
Art

Departmental Notes
Subject Code for Art History ARTH
Subject Code for Fine Art ARTF
Head of Department J.Helland
Departmental Office Ontario Hall, Room 211
Departmental Telephone 613-533-6166
Departmental Fax 613-533-6891
E-Mail Address art@queensu.ca
Chair of Undergraduate Studies K.Romba (ARTH) J.Winton (ARTF)
Academic Advisers, B.A.H. All Art History faculty
Academic Advisers, B.F.A. All B.F.A. faculty
Adviser to Part-Time Students All faculty
Coordinator of Graduate Studies U.D’Elia
Director, Agnes Etherington Art Centre J.Brooke
Director, Art Conservation Program J.O’Neill
Director, B.F.A. Program K.Sellars
Curator of Visual Resources S.Sproule
Overview

The Department of Art offers courses, Plans and Programs in several subjects. At the undergraduate level, the Department of Art offers courses and Plans in Art History, as one component of a B.A. or B.A.(Honours) program. The department offers more specialized courses in support of its Plans in Fine Art. Fine Art Plans will lead to a B.F.A. or B.F.A.(Honours) degree program. At the graduate level, in addition to the M.A. and Ph.D. in Art History, the department supports a Master of Art Conservation degree Program. While further requirements of this Program are detailed in the calendar of the School of Graduate Studies, potential applicants to the Art Conservation program are advised that specific requirements for applicants include courses in general and organic chemistry, studio or workshop practice as well as in art history, archaeology or equivalent.

Art History
In first year, you will explore a chronological sequence of art works from antiquity to the modern era in the West; in your upper years you can choose from a wide range of specialized courses focusing on particular periods or themes. The learning environment on campus is enhanced by Ontario’s third-largest art gallery, the Agnes Etherington Art Centre, as well as the thriving student-run Union Gallery. Students can participate in trips to museums in the major art centres of Canada and the northeastern U.S.

Fine Art
With its tradition of scholarship and research, and an environment that both stimulates and challenges, Queen’s provides the ideal setting for the study and creation of Fine Art. Our program combines the technical, theoretical and critical studies required in the practice of visual art in four interrelated areas: painting, printmaking, sculpture and time-based media. These media are seen as broad, overlapping areas of experience, each containing many approaches and procedures. Studio training is complemented by studies in Art History and elective courses.

Advice to Students

Fine Art Courses
Other than those students pursuing a B.F.A. or B.F.A.(Honours) degree program, no student in Arts and Science may apply more than 24.0 units in Fine Art (ARTF) courses towards their degree program. Only the courses ARTF 100/6.0; ARTF 105/6.0; ARTF 106/3.0; ARTF 110/6.0; ARTF 125/6.0; ARTF 260/3.0; ARTF 265/6.0 are open to non-B.F.A. students, and none of these courses may be used towards the requirements of a Fine Art Plan.

Material Costs
All courses require the purchase of materials in the production of art works. Students can expect to pay up to $1000 per year for materials.
Languages
Students who plan to proceed to graduate work in art history are advised to acquire reading skills in languages appropriate to their areas of specialization.

Special Study Opportunities
Students in Art History are encouraged to take courses at the Bader International Study Centre (BISC) in their second or third year, given the importance of studying works of art first hand. Courses at Herstmonceux take advantage of architecture, painting, sculpture and the decorative arts on both sides of the English Channel within easy travelling distance from the Castle. Although the selection of ARTH courses at the BISC is limited, special consideration will be given to honours students returning to Art History at Queen’s after the enriching experience at the BISC.
Biochemistry

Program Notes
Subject Code for Biochemistry  BCHM
Subject Code for Molecular Biology  MBIO

Associate Dean, Life Sciences and Biochemistry  P.K. Rose
Biomedical & Molecular Sciences, Associate Head (Undergraduate Studies)  S.P. Smith
Office  Botterell Hall, Room 813
Telephone  613-533-6000 ext. 75896
World Wide Web Address  http://meds.queensu.ca/biochem/
E-mail Address  biochem@queensu.ca

For specific course information please contact counselors below:
P.L. Davies, daviesp@queensu.ca
G. Jones, gj1@queensu.ca
Overview

The Biochemistry program provides the student with an in-depth training in modern experimental Biochemistry. The first two years of the program provide background preparation in Chemistry (organic, analytical and physical), Biology (genetics), general Physics and Mathematics. In the upper years of the program students receive in-depth exposure to all areas of Biochemistry and Molecular Biology, including extensive hands-on laboratory experiences. The Biochemistry program has enough flexibility for students to take elective courses offered in other Programs within the Faculty of Arts and Science, including the Life Sciences Program, for which they are eligible.

Program Policies

Students enrolled in the Biochemistry Specialization Plan (BCHM-P-BSH) or the Biochemistry Major Plan (BCHM-M-BSH) will be given priority enrolment to those courses that are required to meet fourth-year core requirements. Students in the Biochemistry Specialization Plan (BCHM-P-BSH) should further note that a minimum cumulative GPA in the core BCHM courses (MBIO 218, BCHM 313, BCHM 315, BCHM 316, and BCHM 317) of 2.9 is a required prerequisite to access those fourth year courses required to complete this Plan. Students in the Biochemistry Major Plan (BCHM-M-BSH) require a minimum cumulative GPA in the core BCHM courses (see above) of 2.7 to access those fourth year courses required to complete these Plans. See Academic Regulations 2.3 and 2.5.2.

Advice to Students

Students should contact the Biochemistry administrative assistant in the Associate Dean’s office to arrange academic counseling.

Biochemistry Plans

The flagship program is the Biochemistry Subject of Specialization Plan, which is recommended for students who wish to gain to in-depth training in modern experimental Biochemistry. This program culminates in an intensive fourth year thesis research project. It equips students with a solid foundation for entry into a variety of science-based graduate programs.

A Cooperative program in Biochemistry is available that is integrated into the Subject of Specialization program. It provides two relevant work experiences in industry, business, research institutes or government but requires that the student complete their degree requirements in four and a half years, not four.

The Biochemistry Major Plan (BSCH-M-BSH) is designed for those students who want comprehensive training in Biochemistry but may wish to pursue a wider range of interests. This option allows students to take a minor in another subject. To accommodate these interests there are opportunities for more elective credits in the final year of the program. Typically, students interested in pursuing alternate plans than graduate studies in experimental Biochemistry should enroll in this Plan.
Biology


Departmental Notes

Subject Code  BIOL
Head of Department  R.M.Robertson
Associate Head of Department  C.D.Moyes
World Wide Web Address  http://www.queensu.ca/biology
Departmental Office  BioSciences Complex, Room 3111
Undergraduate Office  BioSciences Complex, Room 3109D
Departmental Telephone  613-533-6160
Departmental Fax  613-533-6617
Undergraduate Telephone  613-533-6344
Undergraduate E-Mail  frenchj@queensu.ca
Chair of Undergraduate Studies  A.K.Chippindale
Associate Chair of Undergraduate Studies  W.A.Snedden
Academic Advisors  W.Newcomb, V.L.Friesen
Academic Advisors to Con.Ed. Students  W.C.Plaxton, L.Seroude
Academic Advisor for Environmental Science  P.V.Hodson
Counsellors for the Life Sciences Group  W.C.Plaxton, L.Seroude
Coordinator of Graduate Studies  R.D.Montgomerie
Acting Director of Biological Station  S.Lougheed
Overview

As a Queen’s Biology student, you will receive instruction in four scientific areas: ecology and evolutionary biology; animal and environmental physiology; eukaryotic molecular genetics; and plant science and biotechnology. Hands-on laboratory exercises, field courses at our biology station and around the world, and special independent research projects in professors’ laboratories on selected topics are all important components of the program.

Departmental Policies

Some biology courses require students to purchase a laboratory manual produced in the Department for that particular course. The cost of these manuals will be approximately equal to their cost of production. In addition to laboratory exercises, these manuals contain important information on issues such as laboratory safety, the ethical use of animals, and academic integrity. All students taking such courses are expected to read and follow these departmental policies, which complement the Code of Conduct and Academic Regulations described elsewhere in this Calendar.

Advice to Students

Students have some flexibility in selecting courses that can be credited toward biology concentrations. However, judicious planning is required in order to avoid conflicts. For example, physics is optional for B.Sc. programs and is recommended in specific areas of biology. To avoid course conflicts in upper years, students are advised to plan overall programs in consultation with an Academic Adviser in the Department of Biology upon admission and again at the beginning of second year. Academic Advisers are available for consultation and program approval.

To assist students in designing their Biology program, four different course "streams" (as denoted in the overview, above) are available on the departmental website, each representing a sub-discipline within biology that corresponds with a general research focus of faculty within the Biology Department. These course streams provide guidance for students, by year, who wish to "specialize" in one of these sub-disciplines. Students do not need to formally select or apply for any of these streams for their program. Some students may prefer to sample broadly from across all four areas. However, for those who wish to specialize in one area, students can use the charts provided to plan ahead and "map out" their course selections over the four years of the program. Suggestions are given for courses to select from Biology as well as supporting courses that are offered by other departments.

Students wishing to take a single elective course in biology are advised to take BIOL 111/3.0. Those wishing to take more elective courses in biology are advised to select these from among the core courses described in the following Plans, and BIOL 111/3.0.

ADVANCED HONOURS SEMINARS (BIOL 501 to 536)

A series of advanced 3.0 unit seminars with emphasis on reading and/or experimental enquiry carried out independently by each student. Regular meetings in small groups with staff provide direction in developing approaches to particular topics. Evaluation is based primarily on oral presentations and written reports. 500-level offerings will be announced in advance for students
in their third year. Offerings may vary from year to year depending on availability of staff and student interest. Normally, due to enrolment restrictions, students taking BIOL 537/12.0 will be permitted to take only one of these seminar courses and all other fourth-year students will be permitted to take a maximum of two. Preferred access will be given to students at Level 4 and registered in a BSCH program with a BIOL Plan.
Biomedical and Molecular Sciences

Biochemistry and Life Science


Departmental Notes

World Wide Web Address  http://meds.queensu.ca/departments/biomedical_molecular_sciences
Head of Department  M. A. Adams
Associate Heads of Department  K. Poole, S. P. Smith
Departmental Office  Botterell Hall, Room 915
Departmental Telephone  613-533-2600
E-Mail Address  dbms@queensu.ca
Department Manager of Administration  A. Lister
Department Program Coordinator  A. Tobin

Biochemistry Program
Associate Dean, Life Sciences and Biochemistry  P. K. Rose
Associate Head (Undergraduate Studies)  S. P. Smith
Office  Botterell Hall, Room 813
Telephone  613-533-6000 ext. 75896
World Wide Web Address  http://meds.queensu.ca/biochem/
E-mail Address  biochem@queensu.ca

Life Sciences Program
Associate Dean, Life Sciences and Biochemistry  P. K. Rose
Office  Botterell Hall, Room 813
World Wide Web Address  http://meds.queensu.ca/lifesciences/
Telephone  613-533-6527
Email Address  lifesci@queensu.ca
Overview

The Department of Biomedical and Molecular Sciences is a unique amalgam of scientists and teachers who share a common goal: to ameliorate the consequences of disease and trauma by training the next generation of health care scientists and professionals. To meet this goal, the Department draws on the depth and breadth of the scientific expertise of its members. Contemporary courses are offered in the anatomical, biochemical, microbiological, immunological, pharmacological, and physiological sciences and in a wide range of cross-disciplinary studies (e.g. cardiovascular and respiratory sciences, drug development, cancer biology and genetics, neuroscience). These courses are integral to the various Biochemistry and Life Science Plans.

Departmental Policies

Laboratory Safety and Associated Fees
Departmental Safety Rules are strictly enforced. A standard white laboratory coat is required for all laboratory courses. Shoes must be closed at both heel and toe. Additional safety requirements will be described at the first laboratory in each laboratory-based course.

Some courses require students to purchase a laboratory manual produced by the Department for that particular course, with the cost varying depending on specific laboratory course. A small fee for materials is charged for most laboratories. Please see individual courses for the exact costs.

Advice to Students

The Department of Biomedical and Molecular Sciences is responsible for Biochemistry Plans (General/Minor (Science), Major, Specialization) and plays a primary role in the Life Sciences Plans (General/Minor (Science), Major, Specialization). For specific information related to the Biochemistry and Life Science Programs, please consult the Biochemistry Program and Life Sciences Program entries in the Calendar.
Chemistry
D.Beauchemin, R.Stanley Brown, R.Stephen Brown, N.M.Cann, J.Carran,
T.Carrington, C.Crudden, S.A.M.Hesp, J.H.Horton, G.Jerkiewicz, P.G.Jessop, I.Kozin,
R.P.Lemieux, G.Liu, H.-P.Loock, D.H.Macartney, M.Mombourquette, N.Mosey, W.Newstead,
D.Zechel

Departmental Notes
Subject Code CHEM
World Wide Web Address www.chem.queensu.ca
Acting Head of Department M.Baird
Associate Heads of Department N.M.Cann, S.Wang
Departmental Office Chernoff Hall, Room 200
Departmental Telephone 613-533-2616
E-Mail Address ugradm@chem.queensu.ca
Chair of Undergraduate Studies R.A.Whitney
Coordinator of Graduate Studies R.D.Oleschuk
Department Manager J.Jardine
Overview

As one of the top chemistry teaching and research departments in Canada, we offer a stimulating learning environment for undergraduate and graduate students. Queen’s chemistry programs have rich practical laboratory components, where you will put into practice key concepts learned from your lectures. In upper years, you can specialize in one or more of the fundamental branches of chemistry – analytical, inorganic, organic, physical, and theoretical – or explore new applications such as environmental, materials, biological, computational, or polymer chemistry.

Departmental Policies

Safety in the Laboratories
The Departmental Safety Rules are strictly enforced. Everyone is required to wear protective goggles of an approved type at all times in the labs. If contact lenses are used, they must be worn underneath protective goggles. Arms, legs, and feet must be covered while working in laboratories. Open-toed shoes (sandals) are not permitted. The use of a laboratory coat is strongly recommended. Protective gloves may be required.

Students who begin a course of study after 1 September 2009 must complete Queen’s WHMIS training in order to take a laboratory course in Chemistry. WHMIS training will be offered during the first two weeks of the Fall Term.

Laboratory Manual Fees
Some chemistry courses require students to purchase a laboratory manual produced in the Department for that particular course. The cost of these manuals will be approximately equal to their cost of production and will range from $3 to $20 depending on the course.

A standard scientific calculator (cost of about $25) is required for use in tests and examinations in many chemistry courses.

Advice to Students

Programs in Chemistry (Overview)
The Department of Chemistry offers a number of Plans, from the Minor (30 units plus 6 supporting units) to the Specialization (90 units). Students wishing to specialize in chemistry should follow the Major or Specialization Plans. Students wishing to study chemistry and another subject should consider chemistry as one component of a Major-Minor degree combination, or the Specialization Plan in Environmental Chemistry found in the Environmental Studies section of this Calendar.

Second-Year Courses in Organic Chemistry
CHEM 281/3.0 and CHEM 282/3.0 are intended primarily for students in Life Sciences or Biology Plans who are interested in organic chemistry. Students registered in or considering registering in any Plan in Chemistry or Biochemistry should not enrol in these courses. Organic chemistry is covered in a more integrated fashion in the courses CHEM 211/3.0, CHEM 212/3.0, CHEM 222/3.0 and CHEM 223/3.0; approximately 60% of the unit weighting in these courses involves instruction in organic chemistry, as determined by external accreditation. Students who are undecided about their choice of Plan before entering second year are strongly recommended.
to consult the Chair of Undergraduate Studies in Chemistry. Priority will be given to students in Chemistry and Biochemistry Plans for enrolment in CHEM 211/3.0, CHEM 212/3.0, CHEM 213/3.0, CHEM 221/3.0, CHEM 222/3.0 and CHEM 223/3.0.

**Special Study Opportunities**

*Accreditation by the Canadian Society of Chemistry (CSC)*
The Chemistry Major and Chemistry Specialization Plans are fully accredited by the Canadian Society of Chemistry. Students completing these plans will be eligible for membership in the Chemical Institute of Canada and for membership in the various provincial professional chemical associations.

*Seminars in Chemistry*
The seminar program is an important aspect of departmental offerings although seminars do not carry course credit. They may occur at various times during the week, but Friday (11:30 a.m.-12:30 p.m.) is the regularly scheduled seminar time. All third- and fourth-year students in chemistry programs are encouraged to attend.
Computing


Departmental Notes

Subject Code for Biomedical Computing   BMCO
Subject Code for Cognitive Science   COGS
Subject Code for Computing and the Creative Arts   COCA
Subject Code for Computer Science CSCI
Subject Code for Computing   COMP
Subject Code for Computing and Information Science   CISC
Subject Code for Software Design   SODE
World Wide Web Address   www.cs.queensu.ca/
Director of the School   S.G.Akl
School Office   Goodwin Hall, Room 557
School Telephone   613-533-6050
E-Mail Address   inquiries@cs.queensu.ca
Chair of Undergraduate Studies   R.D.Tennent
Academic Advisers   R.A.Browse, A.E.Hassan, M.McCollam, D.B.Skillicorn, R.D.Tennent
Chair of Continuing and Distance Studies   R.D.Tennent
Adviser to Part-Time Students   R.D.Tennent
Chair of Graduate Studies   K.T.Salomaa

For specific course information in the following departments please contact counselors below:

Counsellors

Biomedical Computing
Department of Biochemistry   P.Davies, 613-533-2983; S. Smith, 613-533-3188
School of Computing   J. Glasgow, Goodwin Hall 737, 613-533-6058
Life Sciences   G.Blohm, Department of Physiology, 613 533 3385

Cognitive Science
School of Computing   R.Browse, Goodwin Hall, Room 753, 613-533-6069
Department of Psychology   To be announced

Software Design
Software Design   J. Dingel, Goodwin Hall 723, 613-533-3071
Computing and the Creative Arts

Department of Art  C.Hoeniger, 613-533-6166, 314 Ontario Hall
School of Computing  R.Vertegaal, roel@cs.queensu.ca, 634 Goodwin Hall
Department of Drama  J.Stephenson, 613-533-6000 ext. 74634, 108B Theological Hall
Department of Film and Media  D.Naaman, 613-533-2178, 160 Stuart Street
School of Music  C.Marvin, 613-533-6000 ext. 74205, 307 Harrison-LeCaine Hall
Overview

The School of Computing offers many broad, flexible Plans, each providing you with a solid foundation in the science and principles of computing. Theory and application are balanced as you put your knowledge to work under the guidance of award-winning researchers. Choose from a Computing-specialist Plan (Computer Science, Software Design), a multi-disciplinary Plan (Biomedical Computing, Cognitive Science, Computing and the Creative Arts), or design your own program by incorporating a Major or Minor Plan in Computing and Information Science with another Plan in the Creative Arts, Humanities, Languages, Social Sciences, or Natural and Physical Sciences.

Advice to Students

Introductory Courses
Students considering pursuing any Plan offered through the School of Computing must take CISC 121/3.0 and CISC 124/3.0. Students without programming experience should take either CISC 101/3.0 or CISC 110/3.0 before CISC 121/3.0. (Students entering CISC 121/3.0 should normally be familiar with variables, iteration, conditionals, functions, procedures, parameters, scope, and arrays.) Students in CISC 121/3.0 may transfer to CISC 101/3.0, and students in CISC 101/3.0 may transfer to CISC 121/3.0, without academic penalty, before the end of the fifth week of the corresponding term. Students with considerable programming experience may be allowed to take CISC 121/3.0 and CISC 124/3.0 concurrently, or to substitute a more advanced course for CISC 121/3.0; consult the instructor of CISC 124/3.0.

Special Study Opportunities

Computing Facilities
CASLab is a network of PCs and SUN workstations supported by Linux and Sun servers used for undergraduate teaching. CASLab is shared between the School of Computing and the Department of Electrical and Computer Engineering. Students are provided with an XP and Unix account. File storage for PC users is provided on CASLab Unix servers that are backed up daily. From the PC desktop, students also have access to Linux and Sun Solaris environments using X-Window software. First-year students will usually use the Jeffery Hall laboratory consisting of 100 PCs running XP. Upper-year students make use of the laboratories in Goodwin, Jackson and Walter Light Halls. These laboratories have approximately 75 PCs and 25 Sun workstations.

Professional Internship Program
Qualified students in any of the Plans leading to a Bachelor of Computing (Honours) degree may register in a 12- or 16-month Professional Internship program for their degree. Students who meet the minimum GPA requirement of 1.90 in at least 54.0 units must seek approval of the Chair of Undergraduate Studies in the School of Computing. These students have the opportunity to pursue a 12- or 16-month paid work term in a career-related position after completing their second or third year of study. Upon successful completion of the program, students’ transcripts will be annotated with a statement certifying that they have completed their degree with a Professional Internship.
The requirements for the Professional Internship versions of the B.Cmp.(Hons.) degrees are the same as the standard versions of these degree programs except for the following change.

The project course normally required in the Plan (i.e., CISC 498/6.0 or CISC 499/3.0, or COGS 499/3.0) is replaced by (for a 12-month internship) the courses COMP 390/6.0 and COMP 391/3.0, or COMP 390/6.0 and COMP 392/3.0, or COMP 393/3.0, COMP 391/3.0 and COMP 392/3.0. In the case of a 16-month internship, they are replaced by COMP 390/6.0, COMP 391/3.0 and COMP 392/3.0. The unit requirements for the Professional Internship versions of B.Cmp.(Hons.) degrees are increased accordingly.

In all cases the internship report documents how the internship work has satisfied the requirements for a conventional CISC 498/6.0 or CISC 499/3.0 or COGS 499/3.0 project.
Classics
ARCHAEOLOGY, GREEK AND ROMAN STUDIES

G.Bevan, F.Colivicchi, M.S.Cummings, C.L.Falkner, A.M.Foley, R.D.Griffith, B.J.Kavanagh,
D.R.Lehoux, M.B.Reeves, C.Zaccagnino

Departmental Notes
Subject Code for Classical Studies  CLST
Subject Code for Greek  GREK
Subject Code for Latin  LATN
Head of Department  A.M.Foley
World Wide Web Address  http://queensu.ca/classics
Departmental Office  Watson Hall, Room 505
Departmental Telephone  613-533-2745
E-Mail Address  classics@queensu.ca
Chair of Undergraduate Studies  M.B.Reeves
Academic Advisers  A.M.Foley, M.B.Reeves
Overview

Classics is the study of ancient cultures – primarily Greek and Roman – around the Mediterranean Sea. In this program, students can study the ancient languages of Latin and Greek and explore the aspects of these civilizations, especially their literature, history, religion, myth, philosophy, drama, science, art and archaeology. For archaeology in particular, students have the opportunity to participate in exciting excavations around the Mediterranean basin and the Near East.

Special Study Opportunities

Students pursuing a Major, Medial or Specialization Plan in any of Classics, Classical Studies, Greek or Latin may, subject to departmental approval, spend their third degree year in Italy or Greece. For this purpose students may enrol either in the College Year in Athens (a program offering courses in history, classical and byzantine art, archaeology, ancient and modern Greek language, philosophy, literature, anthropology and the politics and history of the middle east) or at the Intercollegiate Centre for Classical Studies in Rome (offering courses in archaeology, Latin, Greek, Renaissance and Baroque art history and Italian). Students who wish to spend their third year abroad must obtain written approval from the Head of the Department before applying to study abroad, and are advised to do so in the Fall Term of their second year at Queen’s. Students wishing to attend an approved summer program in Italy or Greece for credit towards their program should also consult the Classics departmental office for information.
Global Development Studies


Departmental Notes
Subject Code    DEVS
Head of Department    D.A.McDonald
Office    Mackintosh-Corry Hall, Room B412
Department Administrator    M.Knapp-Hermer
Department Office    Mackintosh-Corry Hall, Room B401
Telephone    613-533-3301
Fax    613-533-2986
E-Mail Address    develstu@queensu.ca
World Wide Web Address    www.queensu.ca/devs
Chair of Undergraduate Studies    R.Day
Placement Coordinator    P.Kumar

Academic Counsellors
The Aboriginal Council    J.Moore-Daigle
Department of Economics    H.Lloyd-Ellis
School of Environmental Studies    A.Goebel
Department of Geography    B.Mullings
Department of History    I.Pande
Department of Political Studies    A.Bakan
Department of Sociology    S.Gyimah
Department of Gender Studies    S. Morgensen
Overview

Global Development Studies (DEVS) is an interdisciplinary department offering a wide range of course and degree options on campus while encouraging students to participate in hands-on learning in locations around the world. Faculty draw on a variety of disciplinary fields to reflect on the notions of freedom, democracy, and progress that inform different visions of development. Through the study of institutions and policymaking and by working with communities in Canada and abroad, we attempt to better understand the complex and unequal history of our shared world. Courses within DEVS cover diverse subject matters that range from global trade, aid and finance through to cultural practices, gender and sexuality, and Indigenous peoples in Canada and the global South.

Special Study Opportunities

DEVS-Fudan Semester Abroad Program in China
This full-semester program runs for 15 weeks from September to December and provides students with an opportunity to spend a term at Fudan University, Shanghai. Fudan's programs in social research are considered to be some of the best in China. Students in this program will receive 90.0 units from Queen’s and will be required to register in DEVS 430/3.0, DEVS 431/6.0 and DEVS 432/6.0. Students who have spent one semester at Fudan can earn an additional 18.0 units by enrolling in DEVS 421/3.0 in the winter term following their return.
Enrolment in the DEVS-Fudan program is through an application process. Application forms are available through Global Development Studies, www.queensu.ca/devs and must be submitted by the end of January in the year preceding a student's anticipated participation. DEVS major, medial or minor students enrolled in the second or third year of the program are eligible to apply. Students from outside Queen's with a background in Global Development Studies are also eligible to apply. A minimum of 10 students is required for the program to be realized. Queen's students seeking financial assistance are encouraged to inquire at the Student Awards Office in advance.

DEVS 305 Cuban Society and Culture
Cuban Culture and Society is a full 6.0 undergraduate course. It is part of an exchange agreement between Queen's and the University of Havana, and has been offered since 2008. The aim is to introduce students to some of the main events and highlights of Cuban society, history, politics and culture, with a focus on the period from the Cuban revolution (1959) to the present. The course is approximately four weeks long, held in the Spring/Summer session, and is taught by an interdisciplinary team of faculty members. The first two weeks consist of seminars at Queen's and follow a structured reading list. The last two weeks of the course takes place at the University of Havana in Cuba.
Enrollment in the DEVS305 program is through an application process. Application forms are available through Global Development Studies Department, www.queensu.ca/devs and must be submitted by November.

Independent Work Study Abroad Programme DEVS 410/6.0 and DEVS 411/3.0
One of the most attractive features of the Development Studies programme at Queen's is the opportunity it affords students to complete a placement abroad and get hands-on field experience
for credit. Many of our students maintain that their placement is the highlight of their academic career. Students have travelled to places such as Bangladesh, Bolivia, China, Costa Rica, Laos, Ghana; have worked with organizations such as United Nations Development Programme (UNDP), Oxfam, Shastri, Polaris Institute, World Bank, Canada World Youth, SOS Children's Village, Red Cross, Habitat for Humanity; and have been engaged with projects such as AIDS education, construction of houses land erosion prevention, working with media lobby groups re. human rights issues associated with the 'war on drugs'.

The placement itself (18.0 units) usually takes place over the summer months following completion of the 3 year of study but requires pre-departure training in the winter term. These units are not considered complete until the co-requisite Post-Placement Seminar (9.0 units) is completed in the following fall term.

DEVS is excited to announce a new opportunity made possible through the generous funding of the Canadian International Development Agency. Up to 6 students per year will be fully subsidized to do their field work in Cape Town through our partnership with the University of Cape Town.

Enrollment in the DEVS410/6.0 and DEVS 411/3.0 program is through an application process. Application forms are available through Global Development Studies Department, www.queensu.ca/devs and must be submitted by November.
Drama


Departmental Notes
Subject Code  DRAM
World Wide Web Address  http://www.queensu.ca/drama
Head of Department  T.Fort
Program Coordinator  L.Atkinson
Departmental Office  Theological Hall (Basement)
Departmental Telephone  613-533-2104
E-Mail Address  drama@queensu.ca
Chair of Undergraduate Studies  J.Stephenson
Academic Advisers  J.Stephenson
Overview

At Queen’s you can balance the study of theatre from theoretical and practical perspectives. Presentations and workshops by guest artists and scholars as well as student participation in main stage and studio productions for the public bring breadth and depth to Drama programs. For students interested in collaboration between the fields of Drama and Film and Media, there is a Specialization Plan in Stage and Screen Studies.

Departmental Policies

1. Students will normally be required to attend theatre shows for all courses, including DRAM 100/6.0. Cost will vary depending on the venue of each show. The number of shows for each course will also vary. Further details can be found in each course syllabus.
2. Students taking acting courses are required to provide rehearsal clothes, i.e. black sweatsuit or black tights (without feet) with black T-shirt or turtleneck. Further details from the Department.

Advice to Students

First Year Courses and Electives
Students who wish to pursue a Drama Plan are advised to take either DRAM 100/6.0 or (if studying at the Bader International Study Centre) DRAM 181/6.0. Either serves as a prerequisite to most upper-level DRAM courses, and is a core requirement in any Drama Plan.
Students who wish to take only one course in the Department of Drama as an elective should take one of DRAM 100/6.0, DRAM 181/6.0, DRAM 201/3.0, DRAM 202/3.0 or DRAM 205/3.0. Students wishing to take any other course in the Department of Drama as a single elective must make a special application to the Department.

Course Lists
The Department integrates both practical and theoretical approaches to drama and theatre in a single program. This is reflected in our two lists of courses which are named after our graduating awards in honour of Lorne Greene and Rod Robertson. While neither set of courses is limited to a single approach, the Greene courses are more practical and the Robertson more theoretical. Detailed lists may be reviewed in the Plans which follow.

Substitute Courses
Courses from outside Drama in the study of theatrical and dramatic arts, other than those listed below, may be offered in substitution, but only with permission of the Department.
**Economics**


**Departmental Notes**

*Subject Code for Applied Economics*  APEC  
*Subject Code for Economics*  ECON  
*Head of Department*  J.G.MacKinnon  
*Chair of Undergraduate Studies*  I.Keay  
*Undergraduate Office*  Dunning Hall, Room 221  
*Undergraduate Telephone*  613-533-2296  
*E-Mail Address*  ballj@econ.queensu.ca  
*Academic Advisers*  www.econ.queensu.ca/pub/undergrad
Overview

The Economics Department at Queen's has a long tradition as one of Canada's leading teaching and research centres in economics. The undergraduate programs we offer promote a comprehensive investigation of many aspects of the subject, with an emphasis on contemporary analytical principles and methods. Those who pursue a concentration in economics or applied economics will take courses in advanced economic analysis, statistical techniques, the historical background of today's economies, and the application of economic theory to public finance, international relations, natural resources and the environment, business cycles, labour markets, and the economic systems of other countries. Economics students at Queen's acquire a diverse portfolio of analytical, quantitative, computational, and communications skills that provide excellent preparation for a wide range of post-graduation education and career opportunities. Our recent graduates have pursued graduate studies in economics and professional programs such as finance, business administration, public administration, law, industrial relations, information technology and resource management, and they have embarked on careers in the private sector, with non-governmental organizations and with the public sector in key positions of responsibility at all three levels of government.

Advice to Students

First Year Mathematics
All Economics Plans require a supporting course in first year calculus. Normally this course is taken in first year. Students choose MATH 126/6.0 (for those without any prior knowledge of calculus) or MATH 121/6.0 (for those who have taken calculus in high school). The calculus courses MATH 120/6.0, MATH 122/6.0, or MATH 123/3.0 and MATH 124/3.0 may also be accepted. Note that first year calculus is a corequisite for ECON 212/3.0, ECON 222/3.0, and ECON 250/3.0 and a prerequisite for ECON 255/3.0 and all third- and fourth-year economics courses.

Elective Courses
The Department provides several options for students studying other subjects who wish to take one or more courses in economics. Students wishing to take a 200-level course should take ECON 111/3.0 or ECON 112/3.0 as required, followed by the 200-level course of interest. All Economics Plans require ECON 110/6.0, or ECON 111/3.0 and ECON 112/3.0.

Special Study Opportunities

Study Abroad Option at the Bader International Study Centre (BISC) or on Exchange
Economics Majors and Medials who plan to attend the BISC or go on exchange should do so before their fourth year. These students should plan to have completed by the end of their third year: i) a total of at least 84.0 units; ii) all 300-level ECON courses required for their Plan, with particular emphasis on ECON 310/3.0, ECON 320/3.0 and ECON 351/3.0; iii) at least 42.0 ECON units in the case of ECON and APEC Majors, and at least 27.0 ECON units in the case of ECON Medials.
English Language and Literature


Departmental Notes
Subject Code for Language and Literature  ENGL
Subject Code for Creative Writing  CWRI
World Wide Web Address  www.queensu.ca/english/
Head of Department  M.Straznicky
Departmental Office  Watson Hall, Room 411
Departmental Telephone  613-533-2153
E-Mail Address  donnelly@queensu.ca
Chair of Undergraduate Studies  S.Straker
Academic Advisers  To be announced
Chair of Graduate Studies  L.Ritchie
Overview

The Department of English offers a comprehensive undergraduate program that exposes students to English literatures from a large range of communities, historical periods, and geographical regions. All three English Plans (Major, Medial, Minor) attempt to balance the study of canonical writers, literary forms, and traditions with the study of previously marginalized or unknown writing. The program as a whole is designed to develop cross-cultural and historical literacies by encouraging students to engage with literatures from diverse histories and traditions through a range of disciplinary and interdisciplinary approaches.

Departmental Policies

Plagiarism
The Department of English values and promotes an ethos of academic integrity, based on the values of honesty, trust, fairness, respect and responsibility. It is the responsibility of all students to familiarize themselves with the University, Faculty and Department policies on academic integrity. The Department of English Statement on Academic Integrity is attached to all undergraduate syllabi and may be found online at www.queensu.ca/english/pdf/plagiarism.pdf. The Statement includes definitions and advice for recognizing and avoiding plagiarism.

Effective Writing
An important purpose of introductory courses in English is to offer training in effective writing. The official writing guide assigned in English 100 is Diana Hacker’s *A Canadian Writer’s Reference*, which provides basic information about writing and research techniques and related matters. Further training in writing is available from the Writing Centre, which offers free services to all students in the form of workshops, tutorials, and consultations, as well as a variety of limited-enrolment courses such as “Analytical Writing” (WRIT 275/3.0). (See the chapter in this Calendar on the Writing Centre for further details.)

English Courses as Electives
A minimum grade of C in ENGL 100/6.0 is the standard prerequisite for virtually all English courses at the 200 level or above, so incoming students intending to register in other Plans, but who may wish to take Elective courses in English, should enrol in ENGL 100 in their first year. Upper-level students without this prerequisite, but who require an Elective course in English (e.g., for Medical School), normally enrol in “Modern Prose Fiction” (ENGL 160/6.0). Because enrolments in all English courses are limited, students registered in an English Plan have priority when applying for courses over students applying to take them as Electives.

Advice to Students

Course Selection
All students wishing to be admitted into an English Plan should, in their first year of study, take “Introduction to the Study of Literature” (ENGL 100/6.0; Core course A).
In their second year, all students registered in an English Plan, including Minors, take a required lecture class, “History of Literature in English” (ENGL 200/6.0; Core course B); students in a Major or Medial Plan also take a required seminar (ENGL 290/3.0; Core course C), which
develops students’ writing abilities and introduces them to the basic research tools of literary studies. ENGL 200 and 290 are prerequisites for coursework at the 300 level and above, so Majors and Medials should be sure to complete them in second year.

200-level English courses are organized into two categories: Survey courses (200-229) and GAIT courses (230-299). GAIT courses, also known as Group IV courses, are divided into the following four sub-categories: Genre (230-249), Authors in Context (250-269), Issues and Themes (270-289), Theory and Criticism (290-299). Students are encouraged to select their Option courses from a range of Survey and GAIT courses. A select number of courses from other departments and programs, including Creative Writing, can also be counted toward an English Plan (see Option A in all three Plans).

In their second year, in addition to ENGL 200 and 290, Majors normally take between 6.0 and 12.0 additional units at the 200 level that will count toward their Plan, and Medials normally take between 3.0 and 9.0 additional units at the 200 level. It is recommended that, when possible, Majors take 12.0 additional units at the 200 level, for a total of 21.0 ENGL units in their second year.

Whether one is registered in a Major, Medial, or Minor Plan, the number of 200-level units completed in second year is an important factor in determining course selection in third and fourth year, so students entering second year should be sure to map out in advance a viable trajectory through their English Plan; consultations with the Undergraduate Chair or individual English instructors may prove invaluable in this regard.

Having gained the historical and critical foundations provided, respectively, by ENGL 200 and 290, Majors and Medials proceed in third year to 300-level “small lecture” courses. These in-depth, full-year survey courses are organized into three categories: Group I (ENGL 305-339), which covers literature from before 1800; Group II (ENGL 340-359), which covers “the long nineteenth century” (roughly, 1780-1920); and Group III (ENGL 360-389), which covers literature from after 1900. Majors must take 6.0 units in each of these Groups (Core courses D, E, F), while Medials must take 6.0 units in Group I and 6.0 units in Group II or III (Core courses D, E). Majors should take at least two of these full-year courses in their third year, while Medials should take at least one.

The fourth-year experience for Majors revolves almost entirely around advanced 400-level seminars. Majors take 15.0 units at the 400-level; 3.0 units of these must be in Groups I or II (ENGL 405-459; Core course G); 3.0 units must be in Groups III or IV (ENGL 460-499; Core course H); while the remaining 9.0 units are Option courses (Option B). Medials take 6.0 units at the 400-level (Option C). It is possible for Majors to take between 3.0 and 6.0 units at the 400 level during their third year, depending on how many 300-level courses they are also enrolled in; Medials will normally fulfill their upper-level seminar requirements in fourth year.
Special Studies Opportunities

Study Abroad
A number of our students take the opportunity of studying abroad for a term or an entire year, benefiting from bilateral exchanges to universities in a wide array of countries. They also have access to the Bader International Study Centre (BISC) in Herstmonceux, England, where Queen’s English Department courses are taught at all levels, including ENGL 100. (For more on these study abroad opportunities, see the chapter on International Programs and Study Abroad Options in this Calendar, as well as the website for Herstmonceux at http://www.queensu.ca/isc.)

Of the Queen’s students who study abroad, many do so in their third year; given the very specific set of third-year requirements that English Majors and Medials must complete (Core courses D, E, and F for Majors; D and E for Medials), it is thus especially important that students registered in these two Plans engage in careful advance planning if they intend to study abroad in their third year. Students who will be away from Queen’s for the entire third year should be careful to enrol in at least 6.0 (and preferably 12.0) units of courses at their exchange institution that can be counted toward the 300-level Core course requirements. Students who will be away only for one term during their third year may have to reverse the usual trajectory, taking more courses than normal at the 400-level during their term at Queen’s, and then completing all of their 300-level requirements when they return here for their fourth year. It is advisable that all students intending to study abroad in their third or fourth year consult with the departmental Exchange Coordinator or the Undergraduate Chair of English before finalizing their course selections at other universities.

Students registered in an English Major or Medial Plan should be in residence at Queen’s for the entirety of their second year, so that they can complete ENGL 200 and ENGL 290 (Core courses B and C), which are prerequisites for doing upper-level work in the Queen’s English Department.
Environmental Studies


Departmental Notes

Subject Code  ENSC
World Wide Web Address  www.queensu.ca/ensc
E-Mail Address  envst@post.queensu.ca
Director  B.F.Cumming
Office  Biosciences Complex, Room 3134
Telephone  613-533-6602

Chair of Undergraduate Studies
A.Goebel, Biosciences Complex, Room 3125, 613-533-6000 ext 77660

Counsellors
Environmental Studies
A.Goebel, Biosciences Complex, Room 3125, 613-533-6000 ext 77660

Department of Biology
B.F.Cumming, Biosciences Complex, Room 3134, 613-533-6153

Department of Chemistry
R.S.Brown, Biosciences Complex, Room 3130, 613-533-2655

Department of Geography
R.Danby, Biosciences Complex, Room 3244, 613-533-6000 ext 77105
S.F.Lamoureux, Mackintosh-Corry Hall, Room D126, 613-533-6033

Department of Geological Sciences and Geological Engineering
R.Peterson, Miller Hall, Room 314, 613-533-6180

Life Sciences
L.M.Winn, Biosciences Complex, Room 3127, 613-533-6465
Overview

In the School of Environmental Studies, you will acquire an appreciation of the scope and complexity of environmental systems, the ability to deal with the socio-economic dimensions of an issue, and the fundamental knowledge to adapt to changes in the future. Students will study environmental systems from both the perspective of the natural and physical sciences, while recognizing the human and cultural dimensions of the issues.

Advice to Students

The School of Environmental Studies offers Plans in both the Arts and Sciences. The following outlines describe each Plan:

*General (Arts)/Minor (Arts) Plan in Environmental Studies*
This Plan provides an introduction and overview of environmental studies.

*Medial (Arts) Plan in Environmental Studies*
This Plan provides disciplinary strength in the humanities and social science plus interdisciplinary environmental courses on the science side. Students will acquire a basic science background, an understanding of the complexity of environmental issues and their solutions.

*Major (Science) Plan in Environmental Science*
This Plan provides a multidisciplinary view of environmental science. The Plan includes core courses in science, integrative courses in science and social science, and environmental courses in the humanities. Specific course choices can emphasize themes of environmental sustainability or environment and human health.

*Specialization (Science) Plans*
These Plans provide a multidisciplinary view of environmental science as well as in-depth study in one of six science subjects: Earth System Science, Biology, Chemistry, Geology, Life Sciences, or Toxicology. A strong link is made to environmental studies, stressing human response to environmental issues and to questions of environmental policy and management.
**Film and Media**


**Departmental Notes**

*Subject Code*   FILM

*Head of Department*   To be announced

*World Wide Web Address*   www.film.queensu.ca

*Departmental Office*   160 Stuart Street

*Departmental Telephone*   613-533-2178

*Departmental Fax*   613-533-2063

*E-Mail Address*   film@queensu.ca

*Coordinator of Undergraduate Studies*   D.Naaman

*Academic Advisers*   B.Allan, P.J.Baxter, F.Burke, G.Kibbins, S.Lord, C.Mackey, S.Matrix, D.Naaman

*Coordinator for Stage and Screen Studies*   D.Naaman

*Administrative Assistant*   L.Graham
Overview

In the Film and Media department at Queen’s, you will examine modern forms of film, video, television, and emerging varieties of digital culture. You will study the forces that have shaped film and media communication, explore the history and theory of film production, and engage directly in the production of film and video. For students interested in collaboration between the fields of drama and film, there is a Specialization Plan in Stage and Screen Studies.

Departmental Policies

Screenings
All courses include the screening of films or video material during laboratory periods.

Production Costs
Courses involving film or video production may entail materials and processing expenses not covered by the University tuition fee. A student interested in such a course is advised to consult the instructor regarding the extra costs that must be anticipated.

Because of student demand for a limited number of spaces, B- in 100-level FILM courses may not be sufficient to merit entry into FILM 206/3.0, FILM 216/3.0, FILM 226/3.0, FILM 236/3.0 or FILM 250/6.0, hence into a concentration in FILM or STSC or COCA. Priority for admission to upper-year courses is determined by overall average in Film and Media courses including grades in prerequisite courses, and following Academic Regulation 4, Enrolment Priorities, in the Calendar.
French Studies


Departmental Notes

Subject Code for French Studies  FREN
Subject Code for French Linguistics  FRLG
Head of Department  C.Dhavernas
Departmental Office  Kingston Hall, Room 301
Departmental Telephone  613-533-2090
Departmental Fax  613-533-6522
Chair of Undergraduate Studies  A.Conacher
Academic Advisers  J.Bénard, A.Conacher, C.Dhavernas, S.Inkel, F.Rouget, E.M.Zawisza
Adviser for Oral French Courses  A.Conacher
Adviser for Concurrent Education  A.Conacher
Coordinator of Graduate Studies  E.M.Zawisza
Overview

At Queen’s you can choose from a variety of courses dealing with oral and written French, literature and culture of France, Quebec and francophone countries, linguistics, and business French. You will have the opportunities to study or work in a francophone context either in Quebec or Europe, through academic exchanges, work/study programs.

Departmental Policies

Credit for Immersion Courses
Students who have taken an immersion course elsewhere may have to be tested by the department in order to receive credit for such a course.

Advice to Students

Introductory French Language Courses
The French Department recognizes that students enter the university with a wide range of abilities in the French language. Therefore, all incoming students intending to take P-level and 100-level French courses should take a French placement test during the Orientation Week to ensure that they are placed in a course at the correct proficiency level. Students should note that once they have passed a course at one level of proficiency, they will not be allowed to take for credit a French language course at a lower level. These rules are enforced by a series of exclusions. Students who wish to pursue a French Plan should also note that P-level courses may not be used towards French Plan requirements, though they may be used as electives or partially towards the requirements of the French Certificate (see below).

Communication and Culture Courses
The communication and culture program is a series of language courses stressing oral proficiency. At the lower levels students learn to satisfy basic survival needs and limited social demands in French, and at the higher levels to communicate effectively, on topics relating to particular interests. No auditors.

Special Study Opportunities

Le Centre francophone
A centre that offers non-credit French courses, at 195 University Avenue.

Learning Resources
Technological resources are available for students taking courses in the department. These include language laboratories and a computer site.

Credit for Work Taken at a French-Language University
The third year of a four-year program with a French major or medial Plan may be taken at a French-language university. Credit for this work may be allowed if at least 60.0 units with a cumulative GPA of 1.90 have been attempted by the end of second year, including FREN 110/6.0, FREN 212/6.0 and FREN 220/6.0 with a GPA of 1.90 on these three courses. On returning to Queen’s for the fourth year, students will normally be allowed to transfer 18.0 units
in French, if proof is submitted of having taken the equivalent of Queen’s courses. All students spending their third year at such a University are required to take at least 9.0 further units in French at Queen’s, normally at the 400 level.

**Certificate of Competence in French Language**

Students who are not registered in a French Plan but have taken certain courses in French at Queen’s or received transfer credit for courses taken elsewhere are eligible for a Certificate of Competence in French Language. Note that this is not a Senate-approved Certificate Program and therefore will be noted as an Academic Milestone on the transcript. The Certificate will be issued by the French Department on behalf of the Faculty of Arts and Science.

**INTERMEDIATE LEVEL** 18.0 units in French, 12.0 of which must be at the 100 level or above. A maximum of 6.0 units in transfer credit may be used toward the requirements of this certification.

**ADVANCED LEVEL** 30.0 units in French, 24.0 of which must be at the 100 level or above. A maximum of 6.0 units transfer credit may be used toward the requirements of this certification.

Only 6.0 units from Communication and Culture courses (FREN P16/3.0, FREN P17/3.0, FREN 118/3.0, FREN 219/3.0, FREN 320/3.0) or the equivalent transfer credit can be counted towards the Certificate of Competence (Intermediate and Advanced)

For both levels students will be required to take an examination (written and oral) at the end of the Winter Term.

Applications for the Certificate should be received by the Department of French Studies before the last day of classes.

NOTE Granting of the certificate of competence will be based on a good standing on a written and oral exam (Grade B-).
**Geological Sciences and Geological Engineering**


**Departmental Notes**

*Subject Code*  GEOL  
*World Wide Web Address*  http://geol.queensu.ca  
*Head of Department*  D.J. Hutchinson  
*Departmental Office*  Bruce Wing, Room 240  
*Departmental Telephone*  613-533-2597  
*E-Mail Address*  zarichny@geol.queensu.ca  
*Associate Head*  R.W. Dalrymple  
*Chair of Undergraduate Studies Geological Sciences*  R.C. Peterson  
*Chair of Undergraduate Studies Geological Engineering*  V.H. Remenda  
*Coordinator of Graduate Studies*  L. Godin  
*Departmental Program Consultants*  V.H. Remenda (Environmental Geology), L. Godin (Structural Geology/Tectonics/Economic Geology), N.P. James (Paleontology/Sedimentary Geology), D. Layton-Matthews (Petrology/Geochemistry)
Overview

Geoscientists are the interpreters of our natural world. They bring methods such as geophysics, geochemistry, geobiology and field geology together to understand the modern and ancient Earth. Clues concealed in rocks and fossils, minerals and fluids, mountains and sediments, glaciers and volcanoes are marshalled to understand and explain the Earth system at all scales. Managing water, mineral and energy resources, developing sustainable strategies for industrial growth and coping with natural and anthropogenic hazards facing increasing global populations, including climate change, all depend on a deep understanding of natural processes. Our graduates study the Earth in this context, with careers in diverse fields including, but not limited to, research, mineral and oil exploration, policy analysis, environmental science and resource management. The programs offered by this department focus on the whole planet and global processes as a dynamic and integrated system.

Departmental Policies

Field Trips

Field trips are a necessary part of geological training and are offered in each year of study because the Department wishes to provide the best education possible. Part of the cost of transportation will be borne by the student through the payment of a one-time Field Transportation Levy, which is normally collected on admission to second year. In 2011-2012 this Levy is $300 in Plans containing GEOL 300/3.0 and $200 in all other Plans.

For students who are not registered in a Plan offered by the department or who do not pay the Field Transportation Levy, there will be a charge per field trip. In 2011-2012 this will be $15 per half day or $30 for a full-day trip. Students are required to possess basic safety equipment such as a hard hat, safety glasses and appropriate footwear, and to have reviewed and signed the Departmental Field Safety Form.

The cost of accommodation and food, while on field trips or at field schools, will be borne by the student. Subsidies will be provided by the Department when funding permits.

Advice to Students

Geology Plans are offered as components of a degree Program within both the Faculty of Arts and Science and the Faculty of Engineering and Applied Science. Students applying to first year, with an interest in geology, should consult both Calendars. Within Arts and Science, a great deal of flexibility exists in the choice of Plans.

Students wishing to complete a Plan designed to train specialists in the Geological Sciences are encouraged to select one of the Geology Specialization or Major Plans. The Geology Specialization Plan provides the opportunity for intensive study of Geology and the supporting sciences. It is intended to fulfill the ‘Knowledge Requirements’ for registration as a Professional Geoscientist. The Geology Major Plan is ideal for students who are interested in a career-oriented program in the geosciences that also allows a wider choice of supporting and elective courses. Another alternative route, for students who are particularly interested in the solid-earth aspects of environmental science, is the Environmental Geology Plan (see the EGEO Degree Plan in the degree plan section of this Calendar).
Students wishing to study geology and another subject should consider geology as one component of a Major-Minor degree combination. The Minor (Science) may be combined with a Major in virtually any other subject, and provides a solid introduction to the Geological Sciences. As the General (Science), this same Plan when taken alone leads to a 3-year BSc degree in Geological Sciences. Students who want to explore the field of Geological Sciences but with greater flexibility in choice of courses should consider combining the Geology Minor (Arts) Plan in a Major-Minor degree combination. The General (Arts) in Geology, leading to a 3-year BA degree, is also available using the same suite of courses as the Minor (Arts).

If you have questions about the differences between the various programs, or on particular course selections, consult with the Chair of Undergraduate Studies before registration. Additional information about the various degree programs can be found by consulting the Geoscience Program Brochure that is available at http://geol.queensu.ca/undergrad.html.

**Special Study Opportunities**

Specialized graduate courses in some areas of Geology are available to qualified students in their final year. For details, consult the Chair of Undergraduate Studies.
Gender Studies


Departmental Notes

Subject Code GNDS
World Wide Web Address www.queensu.ca/gnds
Head of Department B.Baines
Office Mackintosh-Corry Hall, Room D506
Administrative Assistant T.Easter Sheen
Coordinator of Graduate Studies K.McKittrick
Graduate Assistant T.Easter Sheen
Chair of Undergraduate Studies B.Baines
Sexual and Gender Studies Certificate Coordinator B.Baines
Undergraduate Assistant A.Rymal
Departmental Office Mackintosh-Corry Hall, Room D504
Telephone 613-533-6318
Overview

The Department of Gender Studies at Queen’s offers an interdisciplinary approach to studies of women and gender as well as class, race, ethnicity, sexuality, ability, globalization and environments. We draw on human experiences, feminisms, histories, cultures, economies, and politics to critically analyze power, knowledge, difference, and inequalities. The Department also administers a Certificate Program in Sexual and Gender Diversity that is open to all students at Queen’s.
Geography


Departmental Notes
Subject Code for Geography  GPHY
World Wide Web Address  http://geog.queensu.ca/
Head of Department  P.M.Treitz
Departmental Office  Mackintosh-Corry Hall, Room D201
Departmental Telephone  613-533-6030
E-Mail Address  geography.info@queensu.ca
Chair of Undergraduate Studies  B.A.Mullings
Academic Advisers for GPHY  S.F.Lamoureux, W.G.Lovell, B.A.Mullings, P.Treitz
Academic Advisers for Certificate in GIS  G.Barber, D.Chen
Adviser to Part-Time Students  B.A.Mullings
Overview

Geography is an integrated study of the earth's places, societies, environments and landscapes. It is unique in bridging the social sciences and humanities (human geography) with earth system science (physical geography). Geography puts this understanding of social and physical processes within the context of places and regions - recognising the great differences in cultures, political systems, economies, landscapes and environments across the world, and the links between them. In earth systems science we study natural processes, their interactions, and both naturally and human-generated environmental issues. In the social sciences we study a variety of social problems, with a special focus on the uneven distribution of resources and services at scales from the local to the global. In humanities research we explore how human beings have made, and continue to make, the places (physical, social and metaphorical) in which they live. In all these areas Queen’s Geography has scholars and teachers of international repute who are dedicated to making a dynamic and innovative research and teaching environment and a warm and supportive interpersonal environment for our students and faculty. Students who choose geography for their degree will develop the independent and self-directed learning skills needed to think laterally, critically and creatively. These are skills that are critical to meeting the demands of the world as they will find it, and over which they may have influence. Geography provides an ideal framework for integrating other fields of knowledge. It is not surprising that geographers often contribute substantially to the applied management of resources and environments. Students in our programme can select from courses in urban, economic, social, historical and cultural geography, as well as earth system science. A geography degree also provides a solid foundation in qualitative and quantitative research methods, remote sensing, and geographic information science.

Departmental Policies

Ancillary Fees

Any student who participates in a Geography course where there are field trips or where labs or films are extensively used may be required to pay a fee. Any student who participates in a Geography course that uses the Geographic Information Systems (GIS) Lab will be required to pay a fee to set up a network account in this specialized facility (Mackintosh-Corry Hall, E223).

Advice to Students

Prerequisites

Students wishing to take a course at the 200 or 300 level, for which they lack the stated prerequisites, may appeal to the Course Instructor to have the prerequisites waived. For courses at the 400 level and above, students without the stated prerequisites may appeal to the Departmental Undergraduate Committee. For admission to all 500 level courses, students need the consent of a supervising member of the Department and permission of the Undergraduate Committee based on the submission of a proposal.

Students in GPHY 502/3.0 and GPHY 503/6.0 are required to file a soft-cover, bound copy of their thesis with the Department of Geography upon completion of the course. Students in GPHY 503/6.0 are normally required to present their results orally to the department as a requirement
for successful completion of the course. Students in GPHY 502/3.0 are encouraged, but not required, to do so.

**Study Abroad Option**
For students in Geography Plans, study abroad is normally undertaken during their third year. Students may take one or two terms of study at the Bader International Study Centre in their second or third year. Students participating in any international study program are expected to meet all fourth year prerequisites by the end of third year and need to plan their programs accordingly.

It is often difficult to equate directly courses completed on exchange programs to Queen’s courses. Therefore, Geography students planning to participate in a third-year exchange must complete the following courses at Queen’s during their first two years: General/Minor(Arts), Medial(Arts), Major(Arts): GPHY 101/3.0 and GPHY 102/3.0, two of GPHY 240/3.0, GPHY 242/3.0, GPHY 243/3.0 (or GISC 201/3.0), GPHY 244/3.0 (or GISC 202/3.0), GPHY 247/3.0, GPHY 249/3.0; and at least two of GPHY 227/3.0, GPHY 228/3.0 or GPHY 229/3.0; General/Minor(Science), Major(Science): GPHY 101/3.0 and GPHY 102/3.0, GPHY 207/3.0, GPHY 208/3.0, GPHY 209/3.0, GPHY 210/3.0 (or GEOL 200/3.0) and two of GPHY 240/3.0, GPHY 242/3.0, GPHY 243/3.0 (or GISC 201/3.0), GPHY 244/3.0 (or GISC 202/3.0), GPHY 247/3.0, GPHY 249/3.0; both 100-level science corequisites.

**Special Study Opportunities**

**Courses of Instruction in the School of Urban Planning**
Students with a minimum GPA of 3.50 in GPHY 227/3.0 and one of GPHY 332/3.0 or GPHY 338/3.0 or GPHY 352/3.0 or GPHY 492/3.0 may be allowed (on a competitive basis, normally in their fourth year) to take up to 6.0 units in the School of Urban and Regional Planning (chosen from SURP 844/3.0, SURP 851/3.0, SURP 853/3.0, SURP 855/3.0, SURP 870/3.0, SURP 874/3.0). These may be used as electives in their degree program.
History


Departmental Notes

Subject Code   HIST
World Wide Web Address   www.queensu.ca/history/
Chair of Department   J. T. Carson
Departmental Office   Watson Hall, Room 212
Departmental Telephone   613-533-2150
E-Mail Address   stirton@queensu.ca
Chair of Graduate Studies   J. McNairn
Chair of Undergraduate Studies   R. L. Manley
Undergraduate Business   hist.undergrad@queensu.ca
Academic Adviser   J. Brison, R. P. H. Greenfield, D. S. Parker
Adviser to Part-Time Students   T. B. Smith
Transfer Credit Advisor   D. S. Parker
Overview

The History department at Queen’s will provide you with a sophisticated introduction to a variety of approaches to the past, and will hone your analysis, discussion, research, and writing skills. You can explore such diverse areas as the Crusades, slavery and race relations, Native history in the Americas, the Russian Revolution, the problems of 20th century Canadian unity, the economic development of Africa, and the perception and treatment of women in North America.

Departmental Policies

Essay Requirements
It is the policy of the Department of History that, in all written work, students are required to write English that is correct both in grammar and in usage. Marks will be deducted for deviations from this standard.

Ancillary Fees
In some courses an ancillary fee is charged for photocopied readings and other teaching materials. Unless indicated below, any such course fee will not exceed $30.

Advice to Students

Introductory Courses
Any of the first-year history courses fulfills the prerequisite for further work in the subject. Students should therefore choose on the basis of the subject matter and method of instruction they prefer. HIST 121/6.0, HIST 122/6.0 and HIST 124/6.0 follow a lecture/tutorial method. HIST 125/6.0 is offered by continuing and distance studies. A grade of C+ or better in any one of these courses is the minimum prerequisite for seminar work at the 300 level.

Selection of Courses
History courses at Queen’s are divided into four types: introductory courses (100-level), lecture courses (numbered 200-299), core seminars for those registered in the history major or medial Plans (numbered 300-329, and normally taken in second year), and upper-year seminar courses (numbered 330-499). The core seminars and the upper-year seminar courses form a fundamental and compulsory part of the program for students pursuing a major or medial Plan in History. History minors and students in other subjects should normally choose lecture courses, which may be taken at any time in second, third, or fourth year. The specific prerequisites for admission to second-year core seminars and upper-year seminar courses are appended to the course descriptions. Students should note, however, that History Major and Medial students have first priority for registration in all courses at the 300- and 400-level.

Regarding which courses to choose, the History Department expects students to balance interest with breadth. 6.0 units in Canadian History is required for all History Plans; it is also recommended (but not required) that students take at least 6.0 units on the period before 1800. Majors and medials should not take more than half their courses in the history of any one country.
**Preparation for a Teaching Career**

Students wishing to enter teaching as a career are advised by the Faculty of Education to acquire a general familiarity with most of the areas taught at the secondary school level: Canadian, American, and modern world history. It would be advantageous to concentrate in one or more of these areas and to obtain some background in ancient and medieval history as well as in political studies, economics, and sociology.

**Special Study Opportunities**

Students in good academic standing who are pursuing a major or medial concentration in History would normally be eligible to take courses at the Bader International Study Centre, Herstmonceux. The History Department equally encourages and supports other study abroad options. Please consult the History Department website for further information and regulations, and please contact the Department for academic advice before registering.
International Programs and Study Abroad Options

Notes
Associate Dean (International)  J.Lee
Manager  J.Corlett
Exchange Coordinator  L.Esford
Study Abroad Coordinator  M.Marshall
International Programs Assistant  J.Tough
International Programs Office  Mackintosh-Corry Hall, Room B206
Telephone  613-533-2815
Fax  613-533-6453
E-Mail Address  ipo@queensu.ca
World Wide Web Address  www.queensu.ca/ipo
Overview

International Programs Office
The International Programs Office (IPO) provides academic support for internationalization in the Faculty of Arts and Science by delivering information and counsel to undergraduate Arts and Science students about international study opportunities. The IPO also works cooperatively with its exchange partners all over the world and facilitates the integration of incoming students from partner universities into courses in the Faculty of Arts and Science. For Queen’s students wishing to enhance their degree program with a formalized component in International Studies, the International Programs Office administers a Senate-approved Certificate in International Studies.

Policies

Study Abroad Programs
Students interested in pursuing studies abroad are strongly advised to become familiar during their first year with the range of options open to them, in order to determine which options best meet their needs. The International Programs Office runs a series of information sessions in the fall term, designed to outline study abroad options and to provide additional information on specific programs. For further details on all programs offered, including application deadlines and requirements, visit the International Programs Office website.

International Letter of Permission and Transfer of Credits
Arts and Science students who wish to participate in a study abroad experience at another educational institution must apply for an International Letter of Permission through the International Programs Office for the specific courses to be taken. The International Letter of Permission serves as a guarantee that courses taken abroad will be accepted for credit towards a Queen’s degree, and must therefore be obtained prior to making any commitments to a university abroad. Applications can be obtained from the International Programs Office. Students should note that course credit will be transferred to Queen’s, but a TR designation will appear on the Queen’s transcript, not the grade achieved at the host institution.

An International Letter of Permission is not required for Queen’s students wishing to study at the Bader International Study Centre (BISC). Letter grades achieved in courses taken at the BISC appear on the Queen’s transcript.

Special Study Opportunities

Bader International Study Centre at Herstmonceux Castle
The Bader International Study Centre (BISC), housed in Herstmonceux Castle, is owned and operated by Queen’s University. Located in southern England, the BISC offers a unique form of liberal arts education in an international context. The courses available range from English Literature to Geography to Mathematics, and many are specially designed to take advantage of the location of the BISC. Courses offered through the BISC are noted within the courses section of this Calendar.

The BISC offers an innovative First-Year Program that allows highly qualified students to study abroad in their first year of university. The First-Year Program offers a selection of introductory courses that maximize access to many popular Arts and Science Plans, and provides opportunities for students to engage in field studies while interacting with an international
community of scholars. An **Upper-Year Program** (Fall Term; Winter Term; Summer Term [May-June Session or June-July Session]) offers students the opportunity to attend the BISC for one or more academic terms while earning Queen’s credits towards degree programs. Students may design their own program of study from the broad range of courses offered at the BISC. The BISC provides an ideal base for course-related field studies in the Sussex downs, in London and Northern England, and on the Continent. For the most up-to-date information on course offerings, consult the BISC website.

**Bilateral Exchanges**
The Faculty of Arts and Science has developed a number of bilateral exchanges with individual overseas universities. Under this arrangement, Queen’s students spend part or all of their third year at one of the partner universities but pay tuition and ancillary fees to Queen’s. All second-year Arts and Science students are eligible to apply upon condition that they return to Queen’s to complete their honours year. A **minimum** cumulative GPA of 2.60 at the time of application is required to be considered for most exchange programs. All students selected to participate in an international exchange are eligible to apply for an exchange bursary. Further details, and a list of exchange partners, can be found on the IPO website.

** Consortial Exchanges**
Students may take part in the exchange programs organized by provincial and national consortia that give access to about 75 universities in various locations worldwide such as China, Europe, India, and the United States. A minimum GPA of 2.6 is required for the application. Financial support from some programs may be available. Each consortial exchange has a separate application process and further details can be found on the IPO website.

**Independent Study Abroad**
Students are not limited to the options outlined above, but may instead apply directly to any approved university or university-affiliated study abroad program outside Queen’s University. Information on other study abroad programs is available on the IPO website and also in the Queen’s University International Centre in the John Deutsch University Centre.
Jewish Studies

H.Adelman, H.Basser, J.Davies, W.Morrow

Notes
Subject Code for Jewish Studies   JWST
Subject Code for Hebrew   HEBR
Director   H.Adelman
Office   Mackintosh-Corry Hall, Room D217
Telephone   613-533-6969
World Wide Web Address   www.queensu.ca/jewishstudies
E-Mail Address   jewish.studies@queensu.ca
Fax   613-533-3335
Academic Advisers   H.Adelman, H.Basser
Administrative Assistant   L.vanderHorden

Counsellors
Jewish Studies and Hebrew Language and Literature Programs   H.Adelman
Department of Classics   C.L.Falkner
Department of Global Development Studies   M.Epprecht
Department of Gender Studies   M.Little
Department of History   G.Tulchinsky
Department of Philosophy   J.Davies
Department of Political Studies   O.Haklai
Department of Religious Studies   W.Morrow
Overview

Jewish Studies looks at Jewish civilization and its recorded history of 4000 years. Drawing from texts spanning from the Hebrew Scriptures to post-modern writing, Jewish Studies provides students with insight into the complexities of culture and identity.

Advice to Students

**Jewish Studies Plan**

A multi-disciplinary Plan, the Minor/General in Jewish Studies explores Jewish civilization through the offerings of History, Religion, Hebrew, Philosophy, Classics and Gender Studies. Students are invited to draw on these courses as electives or as part of a Minor Plan that enhances or complements their major. The requirements for each course are determined by the hosting academic unit. When uncertain of prerequisites, students should seek the permission of the relevant department or consult with the Director of Jewish Studies. Those considering any advanced work related to Jewish Studies are encouraged to study Hebrew at Queen’s and abroad, especially in Israel, with prior approval of the Director.

**Hebrew Courses and Level of Language Competence**

The courses offered each year in modern Hebrew provide different levels of instruction suitable for students with a range of backgrounds in the language, from those with no training at all in it or minimal exposure, to those with a more extensive background in it (e.g., Jewish day school, yeshivah, previous university training, study in Israel, Hebrew as a native language). Students with anything but the most rudimentary background in the language should not enrol in the introductory modern Hebrew course (HEBR 190). To ensure that students are properly placed according to their levels of linguistic competence, students must consult with the instructor of the course or the coordinator of the Hebrew Program about course placement. All students may take the Introduction to Biblical Hebrew.

Some courses in Hebrew are accepted in partial fulfillment of the requirements of several academic units, including Jewish Studies, Linguistics, Religious Studies, Global Development Studies and World Language Studies.

**Special Study Opportunities**

Courses taken at Israeli universities, subject to Faculty of Arts and Science regulations on credit for courses taken elsewhere, may be counted toward a Minor/General Plan in Jewish Studies with the prior permission of the Director. Consult the Director for more information on Israeli and other universities, programs and scholarships.
Life Sciences

Program Notes
Subject Code for Anatomy ANAT
Subject Code for Biochemistry BCHM
Subject Code for Cancer Research CANC
Subject Code for Cardiorespiratory Science CRSS
Subject Code for Drug Discovery and Human Toxicology DDHT
Subject Code for Community Health and Epidemiology EPID
Subject Code for Life Sciences LISC
Subject Code for Molecular Biology MBIO
Subject Code for Microbiology and Immunology MICR
Subject Code for Neuroscience NSCI
Subject Code for Pathology and Molecular Medicine PATH
Subject Code for Pharmacology and Toxicology PHAR
Subject Code for Physiology PHGY

Associate Dean, Life Sciences and Biochemistry P.K. Rose
Office Botterell Hall, Room 813
World Wide Web Address http://meds.queensu.ca/lifesciences/
Telephone 613-533-6527
Email Address lifesci@queensu.ca

For specific course information please contact counsellors below:

Department of Biomedical and Molecular Sciences
P.L. Davies, daviesp@queensu.ca, courses beginning with BCHM and MBIO
G. Jones, gj1@queensu.ca, courses beginning with BCHM and MBIO
S.D.Iscoe, iscoes@queensu.ca, courses beginning with PHGY and LISC
F.W.K.Kan, kanfwk@queensu.ca, courses beginning with ANAT
D. Maurice, mauriced@queensu.ca, courses beginning with CRSS and LISC
T.E. Massey, masseyt@queensu.ca, courses beginning with DDHT, PHAR, and LISC
B.W. Banfield, bruce.banfield@queensu.ca, courses beginning with MICR
M. Pare, pare@biomed.queensu.ca, courses beginning with NSCI and LISC

Department of Community Health and Epidemiology
H. Richardson, hrichardson@ctg.queensu.ca, courses beginning with EPID

Department of Pathology and Molecular Medicine
V. Tron, tronv@kgh.kari.net, courses beginning with PATH
H. Feilotter, feilotth@kgh.kari.net, courses beginning with CANC
Overview

The hallmark of the Life Science program is a unique blend of disciplines represented by basic and clinical biomedical science departments in the Faculty of Health Sciences. These departments include Biomedical and Molecular Sciences, Community Health and Epidemiology, and Pathology and Molecular Medicine, in collaboration with the Cancer Research Institute, the Centre for Neuroscience Studies, and the Cardiac, Circulation and Respiratory Group.

The subjects that fall under the umbrella of the Life Sciences program include traditional biomedical disciplines devoted to the anatomical, biochemical, epidemiological, immunological, microbiological, pathological, pharmacological, and physiological sciences. In addition, there are streams dedicated to contemporary trans-disciplinary themes in the cardiovascular and respiratory sciences, drug development and human toxicology, cancer biology and genetics, and neuroscience.

Program Policies

Access to Third and Fourth Year Courses

Students in the Life Science Specialization Plan (LISC-P-BSH) will be given priority enrolment to those courses that are required to meet third- and fourth-year core and option requirements. Students in both the Life Science Specialization and Life Science Major Plans (LISC-P-BSH and LISC-M-BSH) should further note that a minimum cumulative GPA of 2.50 is a required prerequisite to access those fourth year courses required to complete these Plans. See Academic Regulations 2.3 and 2.5.2.

Advice to Students

Students should seek academic counseling from one of the counselors listed above or staff in the Associate Dean’s office.

Life Science Plans

The Life Science Specialization Plan is recommended for students who wish to pursue studies in the life sciences that emphasize breadth and depth. It culminates with a wide range of opportunities for intensive study in a particular field during the third and final year. The program equips graduates with a base for advanced study in all biomedical and health-care related sciences and professions. This program offers six sub-plans.

- The Biomedical Discovery Sub-plan is recommended to students who wish to gain advanced laboratory experience or experiential learning in Anatomy or Epidemiology/Public Health or Immunology or Microbiology or Pathology or Pharmacology or Physiology.

- The Biomedical Sciences Sub-plan provides more flexibility in choice of options and electives than other sub-plans, and is recommended to students who wish to
obtain a wide-ranging foundation in the life sciences with opportunities for advanced study in selected topics.

The remaining four sub-plans are devoted to contemporary trans-disciplinary streams and place a high premium on laboratory-based research and seminar-based learning.

- The **Cancer Stream** is recommended to students who wish to proceed to graduate studies and research in Cancer Biology and Genetics. Students intending to take this stream should consult the list of option courses required for completion of the program, and consider appropriate courses in the Year 3.

- The **Cardiorespiratory Stream** is recommended to students who wish to proceed to graduate studies and research in the cardiovascular and respiratory sciences. Students intending to take this stream should complete PHGY 355/3.0 in Year 3.

- The **Drug Development and Human Toxicology Stream** is recommended to students who are interested in enriched study in the fields of drug discovery and development as well as in mechanisms of drug and toxicant action. Students will gain advanced knowledge which will make them competitive for graduate studies and marketable in particular employment areas (e.g. government regulatory agencies and pharmaceutical companies).

- The **Neuroscience Stream** is recommended to students who wish to proceed to graduate studies and research in the neurosciences. Students intending to take this option should complete either NSCI 323/3.0 or NSCI 324/3.0 in year 3. It is strongly recommended that students in this stream complete both courses.

The **Life Science Major Plan** is recommended to students who wish to pursue a wider range of study than is possible with the Life Science Specialization Plan. Priority will be given to those students who have declared a Minor concentration in another discipline. Access to specialized courses at the 400 level may be limited, with priority given to students in the Life Science Specialization Plan program.

*Preparation for a Teaching Career*

Students wishing to enter teaching as a career are advised to consult the Faculty of Education concerning the prerequisites for the B.Ed. program options.

**NOTE** Students enrolled in this program will be required to work with animals and tissues obtained from animals.
Languages, Literatures and Cultures


Departmental Notes

Subject Code for Arabic Language ARAB
Subject Code for Chinese CHIN
Subject Code for German GRMN
Subject Code for Japanese JAPN
Subject Code for Italian ITLN
Subject Code for Linguistics LING
Subject Code for Spanish SPAN
Subject Code for Spanish and Latin American Studies SLAS
Subject Code for World Language Studies LANG
World Wide Web Address www.queensu.ca/llcu
Head of Department D. Santeramo
Departmental Office Kingston Hall, Room 416
Departmental Telephone 613-533-2072
Email Address llcu@queensu.ca
Fax (613) 533-6496
Chair of Undergraduate Studies H. J. Scott
Coordinator of Graduate Studies D. V. Pugh
Academic Advisers All Faculty
Administrative Assistants M. Maliszewska, L. Young

Arabic Language

Academic Adviser for Arabic Language A. Halibi
World Wide Web Address for Arabic Language www.queensu.ca/arabic
Email Address arabic@queensu.ca
Office Mackintosh-Corry Hall, Room D217
Telephone 613-533-6969
Overview

The Department of Languages, Literatures and Cultures is a multidisciplinary unit that offers students the opportunity to learn languages, develop an understanding of literary and cultural traditions, and pursue studies in the field of Linguistics. The Department offers language courses in Chinese, German, Italian, Japanese and Spanish, and Degree Plans in German, Italian, Spanish Latin American Studies, World Language Studies, and Linguistics. Learning a language prepares students to travel, live, or work internationally and makes them more linguistically competent in Canada’s multicultural environment. A degree focusing on languages, literatures and cultures, or Linguistics provides students with valuable transferable skills that are increasingly important in our global world. The Department encourages students in all our disciplines to participate in one of the many international study opportunities supported by Queen's.

Departmental Policies

Additional photocopying fees may be required for certain materials/courses.

Advice to Students

Students with prior knowledge of a language they wish to study are advised to meet with the Undergraduate Chair to discuss their Degree Plan progress and course selection.

Courses and Degree Plans

The Department of Languages, Literatures and Cultures offers a wide range of Degree Plans in the broad areas of languages, literatures and cultures, and linguistics as described below.

Languages, Literatures and Cultures

Queen’s University offers students the opportunity to learn to communicate in some ten different languages, other than English. Within the Department of Languages, Literatures and Cultures, language courses are offered in Chinese, German, Italian, Japanese and Spanish. Language courses form a central part of all the Department’s Degree Plans (see below). Basic language courses are popular electives for students with little or no knowledge of these languages, but are also important starting points for the study of literature and culture, not to mention valuable background in Linguistics and many other disciplines available at Queen’s, such as Global Development Studies, Political Studies, and Music.

The Department offers a wide selection of Degree Plans: Major (German, Spanish), Medial (German, Italian, Spanish) and Minor/General (German, Italian Studies, Spanish, Spanish Latin American Studies, and World Language Studies [which can include any of the above languages and also Arabic, Chinese, French, Ancient Greek, Hebrew, Japanese and Latin]). The Major and Medial Degree Plans, and their associated courses, will examine the influence of key social, historical, political and artistic developments, and sharpen their awareness of varied cultural traditions. In many cases, studies can be enhanced through study abroad and exchange opportunities.
In the Minor/General Plans you will learn to communicate in one or more languages other than English and/or receive an introduction to their literatures and cultures. The Plans prepare you for an international career, allow you to gain insights into literatures and cultures, and prepare you for a global future.

**Linguistics**

Linguistics is the scientific study of language, from the sounds of speech to the internal structure and meaning of words, phrases and sentences. Linguists (people who are specialists in Linguistics) investigate specific languages with a view to understanding the nature of language in general.

The Department offers foundation courses in the core areas of Formal Linguistics—Phonetics, Phonology, Morphology, Syntax and Semantics—as well as a wide selection of special interest courses in Linguistics. Students can choose from two Degree Plans in Linguistics: A *Major in Linguistics*, and a *Minor in Linguistics*.

**First-Year Language Courses and Acceleration**

While students may be permitted to take certain language courses concurrently, they will not be allowed to take for credit a language acquisition course with a number lower than that of a course already completed. To ensure that students are properly placed according to their levels of linguistic competence, they will be allowed to change to a more advanced or to a more elementary language course during the first few weeks of term. Students must in any case consult with their instructors before changes are made in registration so that proper placement and progression in course-work may be determined. Students who are unsure of their linguistic level should consult with the Undergraduate Chair.

Students who have little or no knowledge of another language and are interested in pursuing a Plan in that language are encouraged to accelerate their language training by taking two courses in either their first or second year. Students wishing to complete a Medial or Major Plan are strongly encouraged to take advantage of study abroad opportunities.

Students who have completed 4U or equivalent in their language of study will normally begin at the intermediate level while students with native or near-native language proficiency should begin at the advanced level. Students with any previous training in their language of study will not be allowed to take beginning language courses.

**Special Study Opportunities**

**Exchange and Study Abroad Opportunities**

Students in a Major or Medial Plan are encouraged to take advantage of the study abroad opportunities or spend their third year abroad. Those wishing to avail themselves of this opportunity should contact the Undergraduate Chair early in their second year of studies in order to discuss course selection and details of transfer credit arrangement. Resources are available in the department (pamphlets, travel awards) for students to browse.
Certificate of Competence (in a language listed below)
Students who are not registered in one of our Degree Plans but have taken certain courses in the language at Queen’s are eligible for a Certificate of Competence in the language. Note that this is not a Senate-approved Certificate Program and therefore will be noted as an Academic Milestone on the transcript. The Certificate will be issued by the Department of Languages, Literatures and Cultures on behalf of the Faculty of Arts and Science. Applications for the Certificate should be received by the Department of Languages, Literatures and Cultures before the last day of classes. An administrative fee will be charged.

**Italian**
INTERMEDIATE LEVEL 6.0 units from (ITLN P10/3.0 and ITLN 112/3.0) or *ITLN 101/6.0*
6.0 units from (ITLN 204/3.0 and ITLN 205/3.0) or ITLN 201/6.0
6.0 units from ITLN
With an overall GPA of 2.90 on these courses.

**Spanish**
INTERMEDIATE LEVEL 6.0 units from (SPAN P10/3.0 and SPAN 112/3.0) or *SPAN 101/6.0*
6.0 units from (SPAN 204/3.0 and SPAN 205/3.0) or *SPAN 201/6.0*
6.0 units from (SPAN 301/3.0 and SPAN 302/3.0) or (SPAN 303/3.0 and SPAN 304/3.0)
With an overall GPA of 2.90 on these courses.
Mathematics and Statistics


Departmental Notes
Subject Code for Mathematics    MATH
Subject Code for Statistics    STAT
World Wide Web Address    www.mast.queensu.ca
Head of Department    M.R.Murty
Associate Head of Department    I.Dimitrov
Departmental Office    Jeffery Hall, Room 310
Departmental Telephone    613-533-2390
E-Mail Address    mathstat@mast.queensu.ca
Chair of Undergraduate Studies    O.A.Nielsen
Assistant Chair of Undergraduate Studies    A.Ableson
Coordinator of Graduate Studies    A.Lewis
Chair for Engineering Mathematics    A.Lewis
Administrative Assistant    M.Lambert
Overview

Mathematics offers Plans designed to appeal to a broad range of students, including those interested in pure mathematics, applied mathematics, the physical and the biological sciences, teaching, actuarial studies, probability, and statistics. Our teachers include leading researchers and many winners of national and university teaching awards. Besides an array of specialization, major, medial and minor/general Plans in Mathematics, students interested in statistics can follow a major, medial, or minor/general Plan in that subject. The Department offers various Plans in Mathematics and in Statistics, leading to either a BA, BAH, BSC or BSH degree. A Plan in Mathematics and Engineering is also offered at Queen’s University through the Department of Mathematics and Statistics in the Faculty of Engineering and Applied Science. For full details of this program, see the Calendar of the Faculty of Engineering and Applied Science.

Advice to Students

Actuarial Science
Students interested in actuarial science should note the Actuarial Focus described in the Mathematics Major Plan. Examinations set by the Society of Actuaries are each intended to cover a range of topics in an integrated fashion. The first few of these exams deal mainly with mathematics and statistics, plus some topics from economics and business. The Queen’s courses listed in the Actuarial Focus will give students background in specific areas needed to prepare students for the Society of Actuaries examinations. Information about the examinations can be obtained from the Society of Actuaries.

Supporting Statistics Courses for Students in Other Disciplines
Students wishing to use statistics in their area of study should include in their degree plan at least 3.0 units beyond the introductory level.

Special Study Opportunities

Applied Mathematics Courses
Some applied mathematics (MTHE) courses designed for students in the Faculty of Engineering and Applied Science may also be open to students in the Faculty of Arts and Science. See the Department for details on registration in these courses.

Courses of Instruction in the School of Graduate Studies and Research
With the permission of the instructor, the Department and the Registrar of the School of Graduate Studies and Research, undergraduate students may take for credit graduate courses in MATH or STAT for which they have the prerequisite background. This permission will require first-class standing in the mathematics or statistics courses of the first three years of their programs. Course descriptions are given in the Calendar of the School of Graduate Studies and Research.
Medieval Studies

Notes
Subject Code   MDVL
Faculty Coordinator, Department of History  R. Greenfield
Office     Watson Hall, Room 237
Telephone   613-533-6000 Ext. 77507

Counsellors
Department of Classics   B. Reeves
Department of English   S.Straker
Department of History   R.Greenfield
Department of Philosophy   J.Miller
Overview

Medieval Studies allows you to develop an interest in the history, literature, society, culture and language of the Middle Ages. Here you can discover what happened in Europe and the Mediterranean world after the fall of Rome, and can explore the roots of the modern world by learning about such things as Gothic art, medieval romances and sagas, the Crusades, Byzantine emperors, or early Muslim faith and politics. Language acquisition plays a vital part in the advanced pursuit of medieval studies, so you are encouraged to acquire skills in Latin, Old English, Arabic, Greek or more.

Advice to Students

The Medieval Studies Minor is a multi-disciplinary Plan which brings together courses offered primarily in Art, Classics, English, and History. The requirements for each course are determined by the hosting academic unit and students should be aware that many of the option courses, particularly those in English and History, require prerequisites. In addition, you will not be able to take some of the possible option courses unless you are doing a Major in the relevant Plan. See Department listings for clarification or consult with the co-ordinator of Medieval Studies. To minimize limitations, students are advised to take the supporting courses ENGL 100 and HIST 121 or 122; a first year course in ARTH would also be useful, as would CLST 201. Up to 6.0 units of approved language courses count towards this Plan.
Music


Departmental Notes

Subject Code  MUSC
World Wide Web Address  www.queensu.ca/music
Director of the School  M.Walker
School Office  Harrison-LeCaine Hall, Room 204
Telephone  613-533-2066
E-Mail Address  music@queensu.ca
Chair of Undergraduate Studies  C.Marvin
Academic Adviser to B.Mus. Year I Students  J.Burge
Academic Advisers to B.Mus. Year II to IV Students  All full-time faculty
Academic Adviser to B.A. Students  C.Marvin
Academic Adviser to Con.Ed. Students  K.Frederickson
Chair of Part-Time Studies  C.Marvin
Administrative Assistant  S.Roth
Overview

At Queen’s University School of Music, you will get a solid education in western classical music from the ancient to the postmodern, and build on courses in applied study (performance), musicology/ethnomusicology, music education, and theory and composition. The School of Music offers four different ways to study Music. The most specialized of these is the four-year Bachelor of Music degree program. This is a direct-entry degree program and is subject to special admission conditions (see below and Admissions Regulation 13 for details). Admission is based on an audition, and students must also meet the minimum academic requirements for admission to the University.

The School of Music also offers Major, Medial and Minor/General Plans as part of the regular Bachelor of Arts and Bachelor of Arts (Honours) degree Programs. Students enter these Plans through application in the normal fashion following their first year of study (see Academic Regulation 2 for details). These Plans offer many of the music courses available within the B.Mus. Program, including private instrumental or vocal instruction, but excluding musicianship courses and some applied study courses. The Minor/General Plan in Music and the Medial Plan in Music both allow the student to choose from one of four main areas of study within music: musicology/ethnomusicology, theory/composition, education, or applied study (performance). The Major Plan in Music is designed for specialization in the academic areas of musicology, ethnomusicology and theory/analysis.

Departmental Policies

Procurement and costs of accompaniment are the students’ responsibility; the School of Music may subsidize a portion of the costs. B.Mus. and Queen’s students in the following categories will be able to rent instruments from the School of Music for ($75 for four months in 2010-11, but subject to change): i) who are enrolled in the secondary instrument courses MUSC 180-187/3.0 and MUSC 189/3.0; ii) who are enrolled in applied studies courses (MUSC 121/6.0, 221/6.0, 321/6.0, 421/6.0 or MUSC 124/6.0, 224/6.0, 324/6.0, 424/6.0); or iii) who require an instrument for participation in a School of Music ensemble.

Advice to Students

Course Load
B.Mus. students may register for a maximum of 37.5 units over the Fall and Winter terms. All other Music students must follow the normal course load restrictions as detailed in Academic Regulation 3.

Music Education Option
Students who intend to enter a Bachelor of Education program should choose music education as their main area of study in the B.Mus. Program or the Medial and Minor/General Plans. They should follow the course of study outlined in the Music Education Option as noted in the following Plans to ensure that teaching subject prerequisites have been fulfilled.
**Ensembles**
Specific Ensemble requirements for B.Mus. students are detailed under the Music Specialization Plan which follows. Ensemble courses are open to all students in Arts and Science, upon audition, but may not be used to fulfill the elective or Plan requirements of any Program in Arts and Science, except for the B.Mus Program.

**Access to and Credit for Music courses in other Arts & Science Programs**
Some courses in Music are only open to registration by B.Mus. students or to students in a Music Major Plan. Individual course descriptions will indicate these courses. Most, but not all MUSC courses (see, in particular, Ensembles above), may be used to fulfill the elective or Plan requirements of Arts and Science degree Programs. Some MUSC courses are designed for, and fulfill Program requirements for, only B.Mus. students. For a complete list of such courses please consult the Degree Program Information section of this calendar.

**Rudiments**
A theory rudiments diagnostic test is administered during the audition phase of the application to the B.Mus. Program. B.Mus. students achieving a grade of A- or better on this test enrol in MUSC 191/6.0 without conditions. B.Mus. students achieving a grade of B+ or lower will be expected to do remedial work as part of MUSC 191/6.0. Students are strongly encouraged to strengthen their skills in rudiments before commencing the program.

**Secondary Piano**
Non-piano students who have not yet completed Royal Conservatory Grade VI Piano (or equivalent) prior to entering the B.Mus. program must do so, at their own expense, before proceeding to second year. Successful completion of MUSC P04/0.0 may be used to fulfill the piano entrance requirement. An equivalency exam will be held in Orientation Week in September for students who have completed their first year of the B.Mus. Program, but who have not yet demonstrated a Grade VI piano-playing level.

**Admission**
Students in Music Major, Medial or Minor/General Plans follow the standard Arts and Science admission regulations. Admission to the Bachelor of Music Program is by direct-entry. Once admitted to this Program, students will be automatically enrolled in the Music Specialization Plan. Admission will generally require an audition. Students from other universities, from any other Faculty at Queen’s, or currently registered in any other Program in Arts and Science must also apply through the Admission Services to the B.Mus. Program. This includes any students who were previously required to withdraw from the B.Mus. Program and who wish to gain re-entry. Again, an audition will be required. See Admissions Regulation 13 for complete details.
Philosophy


Departmental Notes

Subject Code  PHIL
World Wide Web Address  www.queensu.ca/philosophy/
Head of Department  J.M.Mozersky
Departmental Office  Watson Hall, Room 312
Departmental Telephone  613-533-2182
E-Mail Address  lavoiemm@queensu.ca
Chair of Undergraduate Studies  D.Knight
Counsellor for Language and Linguistics  A.Mercier
Coordinator of Graduate Studies  S.E.Babbitt
Overview

The Philosophy program at Queen’s seeks to provide students with critical thinking skills, enabling them to uncover hidden assumptions, identify core premises, and evaluate arguments. As well, students will gain an understanding of the important ideas and thinkers in the discipline. Courses range from historical to contemporary, from broad topical investigations to problem-based inquiries.

Departmental Policies

The Department views plagiarism as a very serious departure from academic integrity. A useful description of plagiarism is contained in the handbook, Writing Essays: A Short Guide, published by the Department of English.

Advice to Students

First Year Courses

100-level courses have no prerequisites. They are designed to introduce students to some of the most important writers, problems and methods of philosophy. Instructors choose their own topics, textbooks, methods and emphases. Each course is intended to be equally suitable either as a sole course in philosophy or as a prelude to further study. 6.0 units in PHIL at the 100-level are a prerequisite for further core courses in all PHIL Plans (PHIL 250/6.0, PHIL 257/6.0 and PHIL 361/3.0). However, students should note that no more than 6.0 units in PHIL courses at the 100-level may be used towards the requirements of any PHIL Plan.

Upper-Year Courses without Philosophy Prerequisites

The following philosophy courses are open to students without philosophy prerequisites and therefore may be suitable for students who wish to acquire further elective courses in Philosophy while not pursuing a Philosophy Plan: PHIL 201/3.0; PHIL 261/3.0; PHIL 271/3.0; PHIL 293/3.0; PHIL 301/3.0; PHIL 303/3.0; PHIL 307/3.0; PHIL 310/3.0; PHIL 318/3.0; PHIL 324/3.0; PHIL 381/3.0.

Timelines for Completing a Philosophy Plan

YEAR 1 6.0 units in PHIL at the 100-level (all Plans);
YEAR 2 PHIL 250/6.0 and PHIL 257/6.0 (Major and Medial Plans); PHIL 250/6.0 or PHIL 257/6.0 (Minor Plans);
YEAR 3 PHIL 361/3.0 (Major Plans) and 3.0 units from: PHIL 328/3.0; PHIL 329/3.0; PHIL 330/3.0; PHIL 335/3.0 (Major and Medial Plans);
YEAR 4 6.0 units in PHIL at the 400 or 500 level (Major and Medial Plans)

All other required 200-level and 300-level units may be taken in years 2, 3, and 4 (subject to prerequisites, if any), though students are urged to take courses at the level that matches their year. Students who, through late decision or change of Plan, cannot adhere to the recommended pattern, should seek advice from the Department of Philosophy.
Physics, Engineering Physics and Astronomy


Departmental Notes
Subject Code for Physics   PHYS
World Wide Web Address   www.physics.queensu.ca/
Head of Department   D.A.Hanes
Associate Head of Department   G.R.Lockwood
Departmental Office   Stirling Hall, Room 205
Departmental Telephone    613-533-2707
E-Mail Address   head@physics.queensu.ca
Chair of Undergraduate Studies   K.Robbie
Honours Physics Advisor   M.Chen
Astronomy Advisor    S.Courteau
Chair for Engineering Physics   G.R.Lockwood
Department Manager   P.Hauschildt
Overview

Through studying Physics at Queen’s, you will be trained in observation and experimentation, in mathematics and model building, and will develop the confidence to tackle new and intellectually demanding problems, placing you at the leading edge of research and development in science and technology. This program deals with the properties of matter and energy, from everyday concepts such as force, heat and electricity to abstract ideas of relativity and quantum mechanics. The Department of Physics, Engineering Physics and Astronomy also offers a Specialization Plan in Astrophysics.

Advice to Students

Astronomy

Astronomy courses at Queen’s are offered by the Department of Physics, Engineering Physics and Astronomy, which has a research group active in astronomy and theoretical astrophysics. Students intending to specialize in astronomy or astrophysics at the graduate level should consider the Astrophysics Specialization Plan. Students wishing to include a course in astronomy as an elective should refer to PHYS P15/3.0, PHYS P16/3.0, PHYS 214/3.0 and PHYS 216/3.0.

First Courses in Physics

PHYS 104/6.0 and PHYS 106/6.0 are intended for students from the physical and mathematical sciences. Both are calculus-based courses. PHYS 104/6.0 presents the material at a more fundamental level appropriate for students who are seeking a deeper appreciation of physics and who may be considering a Physics Plan. PHYS 106/6.0 has a somewhat broader curriculum, appropriate for students considering pursuing Plans in other science subjects. A grade of at least C+ in either of these courses is recommended for entry into PHYS 206/3.0, PHYS 239/3.0, and PHYS 242/3.0, which are required courses for most Physics Plans.

PHYS 117/6.0 is designed for students in the biological and life sciences. 4U physics is recommended but not required; neither is a previous or concurrent calculus course although some 4U or equivalent mathematics is required.

PHYS P15/3.0, PHYS P16/3.0, PHYS P20/3.0, PHYS 214/3.0 and PHYS 216/3.0 are attractive electives for students in other disciplines. PHYS P10/3.0 is intended for students interested in teaching physics. PHYS P10/3.0, PHYS P15/3.0, PHYS P16/3.0, PHYS P20/3.0 and can count toward a Minor(Arts)/General(Arts) in Physics but not towards any other Physics Plan.

Students with A standing in both PHYS 117/6.0 and first-year calculus may be admitted to a Physics Plan (with PHYS 117/6.0 then satisfying the first-year physics core requirement) but only after consultation with, and approval from, the Department.
Political Studies


Departmental Notes

Subject Code  POLS
World Wide Web Address  www.queensu.ca/politics
Head of Department  J.Hiebert
Departmental Office  Mackintosh-Corry Hall, Room C321
Departmental Telephone  613-533-6230
E-Mail Address  ugpols@queensu.ca
Chair of Undergraduate Studies  A.Lister
Undergraduate Assistant  F.Shepherd
Chair of Graduate Studies  C.Farrelly
Graduate Assistant  M.Boomhour
Administrative Assistant  B.Murphy
Overview

The Department of Political Studies at Queen’s offers a full curriculum in all areas of political sciences, designed to take you on different and exciting intellectual journeys. You might explore the foundations of early democratic thought, examine integration in the European Union, study how states make the transition to democracy, or explore the impact of welfare reforms on single mothers. You will develop critical thinking and writing skills, which are not only useful for a variety of pursuits after graduation, but crucial for citizenship in a democracy.

Departmental Policies

Studying in French
With prior permission of the instructor, assignments and examinations may be submitted in French.

Advice to Students

Topics and Seminar Courses
At the 300-level, the Department offers a number of courses on various topics in political studies. These are lecture courses, the content of which changes from year to year. At the 400-level, the Department offers seminars in different areas of political studies. For further details on the 300-level topics courses and 400-level seminars, please consult the departmental homepage.

Third Year Abroad
Political Studies students are encouraged to consider taking part in an exchange program in their third year. Students should note that many upper-year POLS courses have a minimum GPA in previous POLS courses as a prerequisite. Since courses taken on an exchange program do not contribute towards GPA calculations, students should ensure they have sufficient minimum grades for upper-year prerequisites before embarking on an exchange program. Those students in Medial or Major Plans must take POLS 384/3.0 in their fourth year at Queen’s.

Third Year Abroad at the Bader International Study Centre (BISC)
Political Studies students who wish to spend one or two terms at the Bader International Study Centre at Herstmonceux Castle in Britain should consult with the Department. Students may receive credit for courses in other subjects and may defer POLS 384/3.0 to their final year.

Special Study Opportunities

Documents Library
An extensive collection of government documents, which is strongest in Canadian federal, provincial and local government. The international collection of publications of the United Nations and several international agencies is also strong. The Library also has an archive of data, including census data, survey material, etc. The Library is housed in the Stauffer Library (Basement Level).
Psychology


Departmental Notes
Subject Code  PSYC
World Wide Web Address  http://psyc.queensu.ca/
Head of Department  R. J. Beninger
Departmental Office  Humphrey Hall, Room 232
Departmental Telephone  613-533-2876
Undergraduate Office  Humphrey Hall, Room 225
Undergraduate Telephone  613-533-2493
Undergraduate E-Mail Address  ug.psyc@queensu.ca
Chair of Undergraduate Studies  J. Atkinson
Academic Advisers  M. Chivers, I. Johnsrude, D. Wilson
Adviser to First-Year Students  J. Atkinson
Coordinator of Graduate Studies  R. R. Holden
Overview

Psychology can be divided broadly into two branches: natural science and social science. In the natural science branch, you will learn about basic processes of cognition and behavioural neuroscience, including the effects of brain damage or drug-induced changes on behavior, how various neurochemicals affect normal and abnormal behaviour, mechanisms of memory, motor control, and how we solve problems. Three Plans are available that will lead to a B.Sc. (Hons.) degree: the Major (Science) in Psychology and two interdisciplinary Plans, the Biology-Psychology Specialization (see the Biology portion of this Calendar) and the Cognitive Science Specialization (see the Computing portion of this Calendar). The social science branch of psychology focuses on child development, personality differences, how people act in groups or organizations, health-related behaviours, and various aspects of normal and abnormal behavior. Three Plans are available: the Major (Arts), Medial (Arts) and Minor/General (Arts). Although social and natural science branches differ somewhat in content, students in both are trained in statistics and research design.

Departmental Policies

PSYC 100 requirement
PSYC 100/6.0 is a prerequisite for all other psychology courses. It can only be waived if a student has completed a similar advanced high school (AP) or college level introductory psychology course.

Correspondence Course exam requirement
All correspondence courses shall have a proctored final examination and a student cannot pass a correspondence course without passing the final examination.

Exam absence
If a student has received instructor permission to defer an exam, they must register with the undergraduate office and be available to write the exam on the department’s deferred exam day. Procedures for requesting a deferred exam and the deferred exam schedule can be found on the psychology undergraduate website.

Special Study Opportunities

Advanced Topics Courses
Information on the topics for Advanced and Special Topics courses are posted at http://psyc.queensu.ca/undergraduate/index.html.

Graduate Courses
Requests for permission to register in certain graduate courses from especially well-qualified fourth-year honours students will be considered where space permits. Students desiring such consideration or more information should consult with the Chair of Undergraduate Studies.
Religious Studies

R. Ascough, H. Basser, E. Goldberg, F. Jahanbakhsh, J. Miller, W. Morrow, T. Trothen, J. Young, P. Dickey Young

Departmental Notes
Subject Code RELS
Head of Department P. Dickey Young
Departmental Office Theological Hall, Room 414
Departmental Telephone 613-533-2106
E-Mail Address thomaslm@queensu.ca
Fax 613-533-6558
Academic Advisers Undergraduate Chair
Administrative Assistant L. Thomas
Overview

At Queen’s you will learn a variety of approaches to the study of religion: historical, literary, philosophical, ethical and social-scientific. We encourage you to appreciate and respect different scholarly viewpoints, and different cultural, religious, and gender perspectives. Religious Studies will introduce you to methods for understanding them in their various cultural settings. You will have opportunities to examine the status and roles of both women and men in religious contexts.
School of Kinesiology and Health Studies


Subject Code for Health Studies  HLTH
Subject Code for Kinesiology and Physical Education  KNPE
Subject Code for Physical Activity Praticum Course  PACT
World Wide Web Address  http://www.queensu.ca.skhs/
Director of the School  J.Côté
Associate Director of the School  S.J.King
School Office  School of Kinesiology and Health Studies, Room 206
Telephone Number  613-533-2666 Press 1
E-Mail Address for Health Studies  askhlth@queensu.ca
E-Mail Address for Kinesiology  askkin@queensu.ca
E-Mail Address for Physical Education  askbphe@queensu.ca
Coordinator of Undergraduate Studies  K.Jackson
Adviser to Transfer Students  K.Jackson
Academic Adviser  K.Jackson
Adviser to Part-Time Students  K.Jackson
Assistant Coordinator of Undergraduate Studies  M.Monte
Coordinator of Graduate Studies  S.J.King
Overview

The School of Kinesiology and Health Studies offers a range of Program and Plan options to students in Arts and Science:

The Plan in Physical and Health Education explores human movement from a multi-disciplinary perspective. Students will learn about the physical aspects of human movement through courses in the area of applied exercise science, as well as how sport, physical activity and exercise are shaped by psychological and socio-cultural factors. Students are taught the application of physical activity and sport knowledge in the context of teaching, coaching, fitness consulting and across all populations and abilities (e.g. children, persons with disabilities, older adults). The Physical and Health Education Plan includes required activity-based courses across all years of the program. Along with other post-degree options, the Program prepares students to offer Physical Education as a teaching subject for admission to teacher preparation programs. The BPHE (Honours) Plan has been designed to meet and exceed the minimum accreditation standards for Physical Education Pre-Teacher Preparation programs accredited by the Canadian Council of University Physical Education and Kinesiology Administrators (CCUPEKA). Admission to the Physical and Health Education Plan, leading to a Bachelor of Physical and Health Education (Honours) degree, is by direct-entry from high school.

The Kinesiology Specialization Plan is a multi-disciplinary, science-based program that focuses on human movement in the applied exercise-science fields of study such as biomechanics, ergonomics, exercise physiology, and physical activity epidemiology. While the Plan is primarily science-based, students also learn about human movement in the context of exercise and sport psychology, health promotion, and the socio-cultural aspects of physical activity. The BSCH KINE Plan has been designed to meet the minimum accreditation standards for Kinesiology programs accredited by the Canadian Council of University Physical Education and Kinesiology Administrators (CCUPEKA). Admission to the Kinesiology Specialization Plan, leading to a Bachelor of Science (Honours) degree, is by direct-entry from high school.

The Health Studies Plans is a social science concentration that addresses subject areas bearing on human health. For the public health care system in Canada to function effectively both the social and physical determinants of health at the individual and societal level need to be understood in the context of health education, health policy, community health, and epidemiology. The core competencies of the Plan include health processes (e.g. implementation of programs and policies), health content (e.g. nutrition, sexuality), and supporting knowledge and concepts fundamental to the evaluation of health (e.g. behavior, lifestyle choices). Major, Medial and Minor/General Plans in Health Studies are all available, leading to a Bachelor of Arts (Honours) degree, with admission based on first year standing.

Departmental Policies

Special Fee for Outdoor Education Courses

Students registering in PACT 338/3.0 and PACT 438/3.0 will pay a fee (subject to change) of $400 per course in order to defray the extraordinary costs involved in offering these outdoor education courses. The School will be responsible for providing transportation, accommodation, food, and general equipment for the outdoor education camp schools; personal equipment will be provided by the students. Financial penalties apply when these courses are dropped within 30 days of the start date. Consult the School of Kinesiology and Health Studies for details.
Advice to Students

Practicum (PACT) courses are primarily participatory in nature and as such, entail an increased number of contact hours compared to standard lecture-based courses. Students should note that the following courses are typically offered in alternate years: KNPE 363/3.0 and KNPE 365/3.0; KNPE 367/3.0 and KNPE 473/3.0; KNPE 463/3.0 and KNPE 465/3.0. Typically at least one 300-level and 400-level course will be offered each year. Students in a Health Studies Plan may access KNPE 251/3.0, KNPE 253/3.0, KNPE 335/3.0 and KNPE 365/3.0.

Limited spaces for other Arts and Science students are available in KNPE 353/3.0, KNPE 367/3.0, KNPE 450/3.0, KNPE 459/3.0 and KNPE 473/3.0. Upper-year students may select these courses, subject to available space. All other KNPE courses are only open to students registered in a Physical and Health Education or a Kinesiology Specialization Plan.

Admission

Students wishing to enroll in Health Studies Major, Medial or Minor/General Plans follow the standard Arts and Science admission regulations, normally applying to these Plans at the end of first year. Admission to the Bachelor of Physical and Health Education (Honours) Program is by direct-entry. Once admitted to this Program, the student will be automatically enrolled in the Physical and Health Education Specialization Plan. Admission to the Kinesiology (Science) Specialization Plan within the Bachelor of Science (Honours) Program is also by direct-entry. Students apply from high school directly to Admission Services for access to these Programs/Plans.

The Bachelor of Physical and Health Education Program – Physical and Health Education General Plan and the Bachelor of Science – Kinesiology General Plan are graduation credentials only available to students who are otherwise unable to complete the corresponding Honours Specialization Program/Plan.
Sociology


Departmental Notes
Subject Code  SOCY
World Wide Web Address  www.queensu.ca/sociology/
Acting Head of Department  R. Beamish
Departmental Office  Mackintosh-Corry Hall, Room D431
Departmental Telephone  613-533-2162
Departmental Fax  613-533-2871
Administrative Assistant  W. Schuler
E-Mail Address  schulerw@queensu.ca
Chair of Undergraduate Studies  M. Hand
Undergraduate Telephone  613-533-2166
Coordinator of Graduate Studies  M. Hird
Overview

In Queen’s Sociology Department, you will consider theories about how societies work, learn methodologies to investigate what is happening, and explore substantive areas such as gender and racism, socio-legal studies, criminology, and communication and information technologies. We place a major emphasis on how to study a broad range of social processes, from childbirth to aging, and from community groups to world power blocs.
Stage and Screen Studies

Notes
Subject Code STSC

Faculty Coordinators and Counsellors
J. Stephenson, Department of Drama
Office 307 Carruthers Hall
E-Mail Address jenn.stephenson@queensu.ca
Telephone 613-533-6000 Ext. 78597

D. Naaman, Department of Film and Media
Office 160 Stuart Street, Room 204
E-Mail Address naamand@queensu.ca
Telephone 613-533-6000 Ext. 78165
The Writing Centre

Notes
Subject Code  WRIT
Director  D.Babington
Office  Writing Centre, Stauffer Library
Telephone  613-533-6315
Overview

The Writing Centre offers courses in Writing (WRIT) which may be used as electives in any Arts and Science degree program. The Writing Centre, part of Queen’s Learning Commons, also offers workshops and one-on-one writing sessions to support students in thinking and writing effectively in all disciplines at both undergraduate and graduate levels.

Advice to Students

One-on-one appointments to discuss your work with professional staff are available, free of charge, throughout the day and evening and on Saturday mornings in the fall and winter terms.
ANAT 100/3.0  Anatomy of the Human Body
This web-based anatomy course is designed to introduce to students the basic structure and functional relationship of the human body. Through a series of 5 study modules, students will learn about the basic language of Gross Anatomy and Histology in order to understand the working of various body systems. This course is also suitable for individuals who have a general interest in human anatomy.
NOTE    Offered only as a distance course. Consult Continuing and Distance Studies.
EXCLUSION    No more than 3.0 units from ANAT 100/3.0; ANAT 101/3.0; IDIS 150/6.0.
ONE-WAY EXCLUSION    May not be taken with or after ANAT 215/3.0; ANAT 216/3.0; ANAT 312/3.0; ANAT 315/3.0; ANAT 316/3.0.

ANAT 101/3.0  Introductory Human Anatomy    3L;2P
A basic anatomy course with an emphasis on clinical relevance of structure and function of human body systems.
RECOMMENDATION    4U Biology.
EXCLUSION    No more than 3.0 units from ANAT 100/3.0; ANAT 101/3.0; IDIS 150/6.0.
ONE-WAY EXCLUSION    May not be taken with or after ANAT 215/3.0; ANAT 216/3.0; ANAT 312/3.0; ANAT 315/3.0; ANAT 316/3.0.

ANAT 215/3.0  Principles of Human Morphology I    3L;2P
The general principles of human structure and function as appreciated through a survey of the morphological sciences, including: history of anatomy; embryology; neuroanatomy; developmental, microscopic and gross anatomy of the locomotor system.
NOTE    Priority will be given to students registered in a LISC Specialization Plan.
PREREQUISITES    (BIOL 102/3.0 and BIOL 103/3.0) or (BIOL 201/3.0 and BIOL 202/3.0) or permission of the Department of Biomedical and Molecular Sciences.
ONE-WAY EXCLUSION    May not be taken with or after ANAT 315/3.0; 316/3.0.

ANAT 216/3.0  Principles of Human Morphology II    3L;2P
The general principles of human structure and function as appreciated through a survey of the development, microscopic and gross anatomy of the body systems: cardiovascular, respiratory, immune/lymphatic, endocrine, digestive and genitourinary.
NOTE    Priority will be given to students registered in a LISC Specialization Plan.
PREREQUISITE    ANAT 215/3.0, or permission of the Department of Biomedical and Molecular Sciences.
ONE-WAY EXCLUSION    May not be taken with or after ANAT 315/3.0; 316/3.0.

ANAT 309/3.0  Functional Histology    3L;2P
An outline of basic mammalian tissues.
PREREQUISITES    (BIOL 102/3.0 and BIOL 103/3.0) or (BIOL 201/3.0 and BIOL 202/3.0) or permission of the Department of Biomedical and Molecular Sciences.

ANAT 312/3.0  Functional Neuroanatomy    3L;2P
Study of the structure and function of the nervous system by lectures, hands-on laboratories, brain dissection, and readings. Topics include, but are not limited to, sensory and motor systems, brain imaging, and clinical examples.
PREREQUISITES    [(ANAT 215/3.0 and ANAT 216/3.0) or ANAT 309/3.0] or permission of the Department of Biomedical and Molecular Sciences.

ANAT 315/3.0  The Human Musculoskeletal System    3L;2P
Gross and functional anatomy of the back, body wall, upper and lower limbs, including blood supply and neural controls.
PREREQUISITES    (BIOL 102/3.0 and BIOL 103/3.0) or (BIOL 201/3.0 and BIOL 202/3.0) or PHED 153/3.0 or KNPE 153/3.0 or permission of the Department of Biomedical and Molecular Sciences.

ANAT 316/3.0  The Human Visceral Systems    3L;2P
Gross and functional anatomy of the thorax, abdomen and pelvis, head and neck.
PREREQUISITES    (BIOL 102/3.0 and BIOL 103/3.0) or (BIOL 201/3.0 and BIOL 202/3.0) or PHED 153/3.0 or KNPE 153/3.0 or permission of the Department of Biomedical and Molecular Sciences.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANAT 409/3.0</td>
<td>Selected Topics in Histology</td>
<td>2L;2P</td>
<td>A focused histological and cell biological study of three selected mammalian tissues, organs and/or systems. PREREQUISITE ANAT 309/3.0, and Level 4 and (a GPA of 2.5 and registration in a LISC Major or Specialization Plan) or permission of the Department of Biomedical and Molecular Sciences.</td>
</tr>
<tr>
<td>ANAT 416/3.0</td>
<td>Biology of Reproduction</td>
<td>3L/S</td>
<td>Comprehensive overview of cellular and molecular biology of mammalian reproduction including gametogenesis, fertilization, early embryo development and placentation; selected topics of clinical aspects of reproduction. Participation in seminars and group discussion is required. PREREQUISITES (ANAT 215/3.0 and ANAT 216/3.0) or ANAT 309/3.0, and Level 4 and (a GPA of 2.5 and registration in a LISC Major or Specialization Plan) or permission of the Department of Biomedical and Molecular Sciences.</td>
</tr>
<tr>
<td>ANAT 417/3.0</td>
<td>Mammalian Embryonic Development</td>
<td>3L/S</td>
<td>Comprehensive overview of cellular and molecular mechanisms that direct embryogenesis including gastrulation, neurulation, establishment of body axes, differentiation, sex determination, limb development, organogenesis and teratology. Participation in seminar presentations and group discussions is required. To be offered in alternate years. PREREQUISITES (ANAT 215/3.0 and ANAT 216/3.0) or ANAT 309/3.0, and Level 4 and (a GPA of 2.5 and registration in a LISC Major or Specialization Plan) or permission of the Department of Biomedical and Molecular Sciences.</td>
</tr>
<tr>
<td>ANAT 499/9.0</td>
<td>Research Project in Anatomy and Cell Biology</td>
<td>10P;2T</td>
<td>An examination of the development and present state of knowledge in selected research areas of Anatomy and Cell Biology. Research project involves experimental design, data collection and analysis, written report, poster presentation and oral presentation. Students will be required to attend seminars and tutorials on topics related to research. Limited enrolment; restricted to fourth year honours, permission of the department required. NOTE Students whose research requires the care and/or handling of animals must also register in LISC 488/0.0. PREREQUISITES (ANAT 215/3.0 and ANAT 216/3.0) or ANAT 309/3.0 or (ANAT 315/3.0 and ANAT 316/3.0) and a GPA of 2.5 and Level 4 and registration in a LISC Specialization Plan) and permission of the Department of Biomedical and Molecular Sciences. EXCLUSION No more than 9.0 units from ANAT 499/9.0; CANC 499/9.0; EPID 499/9.0; LISC 499/9.0; MICR 455/6.0; MICR 499/9.0; NSCI 499/9.0; PATH 499/9.0; PHAR 499/9.0; PHGY 499/9.0.</td>
</tr>
</tbody>
</table>
ARAB 100/6.0  Introductory Arabic (Modern Standard)  3L;1T
Introduction to the basic structures of Modern Standard Arabic. This course gives intensive training equally in
listening, speaking, reading, and writing. In addition to three hours of classroom work and one hour tutorial,
extensive use of audio-visual materials on CD-ROM is expected.
PREREQUISITE  Permission of the Instructor.

ARAB 200/6.0  Intermediate Modern Standard Arabic  3L
This intensive intermediate-level course is designed to provide a review of the basic elements of Modern Standard
Arabic and continues the development of students’ communicative skills in reading, writing, listening and speaking
Arabic. It will offer an introduction to more complex syntactic and grammatical forms and structures, preparing
students for carrying on a simple conversation, reading an intermediate level text, and understanding basic
conversations.
PREREQUISITE  ARAB 100/6.0 or permission of the Instructor.
ARTF 100/6.0  Introductory Drawing  16P
A basic introduction to the principles of line and form, intended as a foundation for further studies in the visual arts.
NOTE Offered during Summer Term only. Not available for credit towards a B.F.A. program.
NOTE Materials: estimated cost $100.
EXCLUSION No more than 6.0 units from ARTF 100/6.0; ARTF 127/6.0.
EXCLUSION No more than 6.0 units from ARTF 100/6.0; ARTF 128/6.0.

ARTF 105/6.0  Introductory Fine Art (Drawing and Painting)  16P
An exploration, through the processes of drawing and painting, of a wide range of visual problems encountered by the contemporary artist.
NOTE Offered during Summer Term only. Not available for credit towards a B.F.A. program.
NOTE Materials: estimated cost $200.
RECOMMENDATION ARTF 100/6.0.
EXCLUSION No more than 6.0 units from ARTF 105/6.0; 106/3.0; ARTF 127/6.0.
EXCLUSION No more than 6.0 units from ARTF 105/6.0; 106/3.0; ARTF 128/6.0.

ARTF 106/3.0  Introductory Fine Art (Drawing and Painting)  16P
An exploration, through the processes of drawing and painting, of a wide variety of visual problems encountered by the contemporary artist.
NOTE Not available for credit towards a B.F.A. program.
NOTE Offered only at the Bader International Study Centre, Herstmonceux, in Summer Term.
NOTE Materials: estimated cost $200.
EXCLUSION No more than 6.0 units from ARTF 105/6.0; 106/3.0; ARTF 127/6.0.
EXCLUSION No more than 6.0 units from ARTF 105/6.0; 106/3.0; ARTF 128/6.0.

ARTF 110/6.0  Introductory Fine Art (Drawing and Sculpture)  16P
The examination of two- and three-dimensional art forms through the use of drawing and simple forming processes.
NOTE Offered during Summer Term only. Not available for credit towards a B.F.A. program.
NOTE Materials: estimated cost $100.
EXCLUSION No more than 6.0 units from ARTF 110/6.0; ARTF 127/6.0.
EXCLUSION No more than 6.0 units from ARTF 110/6.0; ARTF 128/6.0.

ARTF 125/6.0  Introduction to Studio Art in Printmaking  16P
Designed to appeal to studio novice and seasoned artist alike, this course seeks to foster a broad understanding of historical and contemporary printmaking processes, through hands on studio assisted projects. These will cover lithography, etching relief, book binding, hand transfer and photo-digital etching. Overall emphasis is on experimentation and exploration of imagery.
NOTE Offered during Summer Term only. Not available for credit towards a B.F.A. program.
NOTE Materials: estimated cost $100.
RECOMMENDATION Some drawing experience.
ONE-WAY EXCLUSION May not be taken with or after: ARTF 227/6.0; ARTF 255/6.0.

ARTF 127/6.0  Introductory Fine Art I  16P
A foundation course in drawing and two-dimensional design aimed at developing basic skills in artistic production. One class per week will be devoted to learning safe procedures and technical skills in the wood-shop. There will be a half-day WHMIS safety training workshop. Students must pass both the technical skills and the WHMIS training components.
NOTE Open only to students in a BFA Program.
EXCLUSION No more than 6.0 units from ARTF 100/6.0; ARTF 127/6.0.
EXCLUSION No more than 6.0 units from ARTF 105/6.0; 106/3.0; ARTF 127/6.0.
ONE-WAY EXCLUSION May not be taken with or after: ARTF 125/6.0; ARTF 260/3.0; ARTF 265/6.0.
ARTF 128/6.0  Introductory Fine Art II
A continuation of ARTF 127/6.0, the two sections of this foundation-level course are in the areas of painting and three-dimensional design. In the painting section, a variety of ideas concerning the organization of form and colour are introduced. In the three-dimensional design section, the visual, tactile and structural characteristics of a variety of materials are studied in relation to broad topics of three-dimensional design.
NOTE  Open only to students in a BFA Program.
PREREQUISITE  ARTF 127/6.0.
EXCLUSION  No more than 6.0 units from ARTF 110/6.0; ARTF 128/6.0.

ARTF 227/6.0  Intermediate Fine Art I
The two sections of this course are in the areas of printmedia and 3-D media. The two sections of this course build on concepts developed in ARTF 127/6.0 and ARTF 128/6.0. New techniques, skills and concepts in printmedia and 3-D media are introduced.
NOTE  Open only to students in a BFA Program.
NOTE  The field trip to New York is highly recommended; the estimated cost is $700.
PREREQUISITE  ARTF 128/6.0.

ARTF 228/6.0  Intermediate Fine Art II
A continuation of ARTF 227/6.0, the two sections of this course are in the areas of painting and time-based media. Both will build on concepts developed in ARTF 227/6.0 and introduce new ideas, techniques, and skills development.
NOTE  Open only to students in a BFA Program.
PREREQUISITE  ARTF 227/6.0.

ARTF 260/3.0  Studies in Studio Practice  1S;3P
NOTE  Not available for credit towards a B.F.A. program.
NOTE  Estimated material/field trip: cost $150-200.
RECOMMENDATION  ARTH 120/6.0.

ARTF 265/6.0  Intermediate Studies in Studio Practice  16P
An advanced investigation into art media, techniques and strategies of artists, with greater length and diversity of projects. Discussion will focus on writings by artists on studio practice and theory, and on art practice as research
NOTE  Offered during Summer Term only. Not available for credit towards a B.F.A. program.
NOTE  Estimated material and field trip cost: $150-200.
RECOMMENDATION  ARTF 260/3.0.
PREREQUISITE  ARTF 100/6.0 or ARTF 105/6.0 or ARTF 110/6.0.
EQUIVALENCY  ARTF 115/6.0.

ARTF 300/3.0  Engineered Art  1.5L/T;3P
This interdisciplinary course promotes student awareness of the interplay of art and engineering within professional practice. Small teams of senior undergraduate fine art and engineering students will collaborate to produce artworks. Each team will involve at least one student contributor from each discipline. The course will culminate in a public exhibition of the artwork produced.
NOTE  Open only to students in a BFA Program.
PREREQUISITE  ARTF 228/6.0 and permission of the Department based on review.

ARTF 337/9.0  Advanced Programs I
In this advanced-level course students choose two sections from these areas: drawing, printmedia, painting or 3-D media.
NOTE  Open only to students in a BFA Program.
PREREQUISITE  ARTF 228/6.0.
ARTF 338/9.0  Advanced Programs II
In this second advanced-level course students choose two sections from these areas: drawing, printmedia, painting or 3-D media. One section must be a continuation of an area studied in ARTF 337/9.0 and the area of the second section is optional.
NOTE    Open only to students in a BFA Program.
PREREQUISITE   ARTF 337/9.0.

ARTF 447/9.0  Individual Programs I
In fourth year, each student must submit a proposal for an individual program of creative exploration and research. This can be based on one or more of the following areas: painting, printmedia, 3-D media. Instruction at this level is through individual tutorials and critiques, although all students will meet once a week for a common seminar.
NOTE    Open only to students in a BFA Program.
PREREQUISITES   ARTF 338/9.0 and Level 4 and a GPA of 2.90.

ARTF 448/9.0  Individual Programs II
In fourth year, each student must submit a proposal for an individual program of creative exploration and research. This can be based on one or more of the following areas: painting, printmedia, 3-D media. Instruction at this level is through individual tutorials and critiques, although all students will meet once a week for a common seminar.
NOTE    Open only to students in a BFA Program.
PREREQUISITE   ARTF 447/9.0.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Exclusions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 116/3.0</td>
<td>Art and Architecture in Britain from the Classical Period to c.1700</td>
<td>3L/P</td>
<td>Level 2 or above</td>
<td>No more than 9.0 units from ARTH 116/3.0; ARTH 117/3.0; ARTH 120/6.0.</td>
</tr>
<tr>
<td>ARTH 117/3.0</td>
<td>Art and Architecture in Britain from c.1700 to the Present</td>
<td>3L/P</td>
<td>Level 2 or above</td>
<td>No more than 9.0 units from ARTH 116/3.0; ARTH 117/3.0; ARTH 120/6.0.</td>
</tr>
<tr>
<td>ARTH 120/6.0</td>
<td>Art in the West from Antiquity to Modernity</td>
<td>2L;1T</td>
<td>Level 2 or above</td>
<td>No more than 9.0 units from ARTH 116/3.0; ARTH 117/3.0; ARTH 120/6.0.</td>
</tr>
<tr>
<td>ARTH 123/6.0</td>
<td>Architecture in the Classical Tradition</td>
<td>3L</td>
<td>Level 2 or above</td>
<td>No more than 3.0 units from ARTH 223/3.0; ARTH 321/3.0.</td>
</tr>
<tr>
<td>ARTH 210/3.0</td>
<td>An Introduction to Technical Art History</td>
<td>3L</td>
<td>Level 2 or above</td>
<td>Permission of the Department.</td>
</tr>
<tr>
<td>ARTH 212/3.0</td>
<td>Medieval Art</td>
<td>3L</td>
<td>Level 2 or above</td>
<td>Permission of the Department.</td>
</tr>
<tr>
<td>ARTH 213/6.0</td>
<td>Renaissance Art and Architecture (c.1400-c.1600)</td>
<td>3L</td>
<td>Level 2 or above</td>
<td>Permission of the Department.</td>
</tr>
<tr>
<td>ARTH 223/3.0</td>
<td>Art in Europe c.1800-1850</td>
<td>5L/P</td>
<td>Level 2 or above</td>
<td>Permission of the Department.</td>
</tr>
</tbody>
</table>
ARTH 227/6.0  Modern and Contemporary Art c.1900 to the Present  3L
A selected study of the history and meaning of 20th-century art in the metropolitan West from a contemporary vantage point. Shifts in critical conceptions will be examined as well as the works themselves.
PREREQUISITE  Level 2 or above or permission of the Department.

ARTH 231/3.0  Canadian Art I  3L/S
A study of Canadian art from its beginnings through the nineteenth century. The nature and development of Canadian art within the context of the social, political and economic history of the country will be examined.
NOTE  Field trips: estimated cost $35.
PREREQUISITE  Level 2 or above or permission of the Department.

ARTH 232/3.0  Canadian Art II  3L/S
A study of Canadian art from the end of the nineteenth century. The nature and development of Canadian art within the context of the social, political and economic history of the country will be examined.
NOTE  Field trips: estimated cost $35.
PREREQUISITE  Level 2 or above or permission of the Department.

ARTH 245/6.0  Art and Architecture in Venice
Instruction in Venice based on daily study tours to the city’s monuments and galleries. Each week a visit will be organized to an important centre in the Venice region.
NOTE  Costs of travel and accommodation abroad must be paid by the student. Consult the Department of Art for the costs involved. Estimated cost for 2009: Room and board $4,065, Travel $1500.
PREREQUISITE  6.0 units in ARTH.

ARTH 253/3.0  Baroque Art  2L;1T
A survey of the visual culture of Europe and its colonies in the Baroque age (ca. 1580-1750). Attention is given to developments in all aspects of the visual arts, with emphasis on painting, sculpture, architecture, and the graphic arts, and on the achievements of artists such as Rembrandt, Rubens, Poussin, Velasquez, and Bernini.
RECOMMENDATION  ARTH 120/6.0.
PREREQUISITE  Level 2 or above or permission of the Department.

ARTH 291/3.0  Introduction to Architecture in the Modern Period I  3L
An examination of modern architecture in the western world, from the late 18th century to 1900.
NOTE  Field trips: estimated cost $50.
PREREQUISITE  Level 2 or above or permission of the Department.

ARTH 292/3.0  Introduction to Architecture in the Modern Period II  3L
An examination of modern architecture in the western world, from 1900 to the present.
NOTE  Field trips: estimated cost $50.
PREREQUISITE  Level 2 or above or permission of the Department.

ARTH 301/3.0  The Artwork as Material Object I  3L
An introduction to artworks as material objects from the pre-historic era to the Enlightenment. The technology and materials of paintings, works of art on paper and three-dimensional artifacts will be studied with a view to imparting a greater understanding about what we see and providing an enrichment of the overall viewing experience.
PREREQUISITE  Level 3 or above.

ARTH 302/3.0  The Artwork as Material Object II  3L
An introduction to artworks as material objects from circa 1800 to the Contemporary. The technology and materials of paintings, works of art on paper and three-dimensional artifacts will be studied with a view to imparting a greater understanding about what we see and providing an enrichment of the overall viewing experience.
PREREQUISITE  Level 3 or above.
ARTH 303/3.0  The Two-Minute Louvre  3S
An examination of the relationship of art and tourism in the modern world. Topics of discussion include the role of tourism in the creation of ‘tourist’, Folk and Primitive art, souvenir and ‘craft’; the relationship of museums and cultural tourism to the rise of global capitalism; and the ways in which art in a tourism economy participates in the politics of identity and representation.
NOTE Field trips: estimated cost $30.
PREREQUISITE Level 3 or above.

ARTH 304/3.0  Issues in the History of Canadian Art  3S
A selective examination of issues in Canadian art history and historical practice, especially as they inform the production and critique of the history of Canadian art.
NOTE Field trips: estimated cost $30.
PREREQUISITE Level 3 or above.

ARTH 305/3.0  Topics in Modern and Contemporary Art History  3L
An examination of one aspect of modern and/or contemporary art history. Possible areas of investigation include the study of an issue important to the art of the modern and/or contemporary period, as well as the study of the methods and historiographic positionings of art historians working today.
RECOMMENDATION ARTH 227/6.0.
PREREQUISITE Level 3 or above.

ARTH 306/3.0  Sekinkel to Speer: German Architecture from 1815 to 1945  3L
This survey examines key German buildings and monuments from the beginning of German Confederation to the end of the Third Reich. Emphasis will be placed on situating this architecture in its broader cultural and social context.
PREREQUISITE Level 3 or above.

ARTH 307/3.0  Romanesque: Art and Historicism in Europe c.800-1150  3L
This course considers the retrospective tendencies in art of the so-called ‘Romanesque period’ leading up to the ‘Gothic’. Considering monuments across all media, we discuss concepts of artistic development in cathedral, monastic and secular settings. We will also consider modes of ‘reading’ and interpretation of medieval art in terms of contemporary modes of perception.
PREREQUISITE Level 3 or above.

ARTH 308/3.0  Gothic Art in Europe c.1150-1400  3L
This course examines the changes in European art later known as ‘Gothic’. With a focus on England, France, Spain, Italy and Germany, this class will consider major monuments across the media, from manuscript painting, to architecture, stained glass, sculpture and ars sacra. Throughout, monuments will be placed in their appropriate social, historical and patronal contexts.
PREREQUISITE Level 3 or above.

ARTH 310/3.0  Feminism, Art, Art History  3L/S
A study of women as subjects in art, producers of art and writers of art history. Specific female artists (Western and non-Western) will be considered within theoretical frameworks that have become important to feminist art historians during the past 15 to 20 years (for example, marxist theory, discourse theory, reception theory, psychoanalytic theory).
PREREQUISITE Level 3 or above.

ARTH 311/3.0  Gender and Modernism  3L/S
A study of gender in relation to modern visual culture from the mid-nineteenth to the mid-twentieth centuries using theoretical frameworks drawn from feminist art history and gender studies. Topics to be studied include fashion and modernity, consumer culture, gendered and transgendered artistic identities, and the gendering of Modernism.
RECOMMENDATION ARTH 227/6.0.
PREREQUISITE Level 3 or above.
ARTh 312/3.0  Quattrocento Painting  3l/s
An examination of selected topics in 15th-century Italian Renaissance painting.
RECOMMENDATION  ARTH 213/6.0.
PREREQUISITE  Level 3 or above.

ARTh 316/3.0  Special Topics in Renaissance Art and Architecture in Britain  5P
A study of Renaissance art and architecture through examples found in Britain and British collections.
NOTE  Offered only at the Bader International Study Centre, Herstmonceux. Students must participate in field trips.
PREREQUISITE  Level 3 or above.

ARTh 321/3.0  European Art, 1789-1859: Revolution to Evolution  3l/s
A study of European art and sculpture of the early nineteenth-century in its political, social and scientific contexts.
Topics may include revolutionary painting and caricature, national romanticism, orientalism and empire, realism and popular culture, universal exhibitions, and the interplay of art and modern science.
PREREQUISITE  Level 3 or above.
EXCLUSION  No more than 3.0 units from ARTH 223/3.0; ARTH 321/3.0.

ARTh 322/3.0  Impressionism and Post-Impressionism  3l/s
An investigation into the sources of impressionism, its diffusion in Europe, reactions to impressionism and alternate traditions up to 1900. Given in the Winter Term.
NOTE  Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE  Level 3 or above.
EXCLUSION  No more than 3.0 units from ARTH 322/3.0; ARTH 324/3.0.

ARTh 323/3.0  Fin-de-siècle: Decadence and Renewal in European Art of the 19th Century  3l/s
An examination of the art and criticism of 19th-century Europe in relation to the concepts of decadence and renewal.
PREREQUISITE  Level 3 or above.

ARTh 324/3.0  French Art and Its Reception, 1855-1912  3l/s
A study of late nineteenth-and early twentieth-century French art in its changing institutional, social and art historical contexts. Topics may include the institutions of exhibiting and artistic training, the art market, modernity, the new Paris, impressionism and sensation, the decorative, the cult of the self, primitivism and colonialism.
PREREQUISITE  Level 3 or above.
EXCLUSION  No more than 3.0 units from ARTH 322/3.0; ARTH 324/3.0.

ARTh 335/3.0  French Architecture c.1700-1830  3l/s
French architecture and interior decoration from the origins of the rococo to neoclassicism, with special reference to the French Revolution.
PREREQUISITE  Level 3 or above.

ARTh 336/3.0  British Landscape Art  5l/p
An examination of selected visual representations of the British landscape, from 18th-century paintings to recent developments in a variety of media such as sculpture and earthworks. Issues of national identity, collecting and exhibiting will be addressed.
NOTE  Offered only at the Bader International Study Centre, Herstmonceux. Students must participate in field trips.
PREREQUISITE  Level 3 or above.

ARTh 339/3.0  Canadian Art in the Twentieth Century  3l/s
Selected problems in the development of Canadian painting and sculpture in the modern period.
NOTE  Field trips: estimated cost $35.
PREREQUISITE  Level 3 or above.
ARTH 340/3.0  Aspects of Contemporary Art in Canada  3L/S
An examination of a range of historical conditions that have encouraged and challenged the growth of a visual and media arts practice in Canada since the mid-1950s.
PREREQUISITE Level 3 or above.

ARTH 341/3.0  Photography and Society  3L/S
An introduction to the processes, practices and histories of photography; the changing topics address its interpretation and application since the 1840s.
PREREQUISITE Level 3 or above.

ARTH 342/3.0  Photography in Canada 1839-1939  3L
Through lectures, readings, and research, this course explores the nature, practice, and impact of photography in Canada between 1839 and 1939. By examining how the new medium was used to confirm, complement, and contest older forms of aesthetic expression, written documentation, or visual evidence, it traces the role of photography in Canadian society during this critical period of Canadian nation building.
PREREQUISITE Level 3 or above.

ARTH 345/3.0  Italian Art of the High Renaissance  3L/S
The sources of High Renaissance art will be examined and special attention will be given to the works of Leonardo, Raphael and Michelangelo, up to about 1520.
RECOMMENDATION ARTH 213/6.0.
PREREQUISITE Level 3 or above.

ARTH 347/3.0  Mannerism  3L/S
Painting and sculpture in the period following the High Renaissance will be examined, with emphasis placed on the emergence and meaning of mannerism in Florence and Rome.
RECOMMENDATION ARTH 213/6.0.
PREREQUISITE Level 3 or above.

ARTH 352/3.0  Printmaking in Early Modern Europe  3L
A chronological survey of the history of printmaking in Western Europe from its beginnings in the 15th century to the Industrial Revolution. Topics include the cultural impact of the reproducible image, the development of woodcut, engraving, etching and lithography, and the achievements of printmakers such as Dürer, Goltzius, Callot, Rembrandt, Hogarth and Goya.
RECOMMENDATION ARTH 253/3.0.
PREREQUISITE Level 3 or above.

ARTH 353/3.0  Flemish Baroque Painting  3L
A detailed study of painting in Flanders in the 17th century. The course will concentrate on the achievements of Rubens, Van Dyck and Jordaens.
RECOMMENDATION ARTH 253/3.0.
PREREQUISITE Level 3 or above.

ARTH 354/3.0  Dutch Baroque Painting  3L
A detailed study of painting in Holland in the 17th century. Special attention will be given to the achievements of Hals, Rembrandt and Vermeer, and to developments in landscape, portrait, and genre painting.
NOTE Also offered at the Bader International Study Centre, Herstmonceux.
RECOMMENDATION ARTH 253/3.0.
PREREQUISITE Level 3 or above.

ARTH 358/3.0  Baroque Painting in Rome and Naples c.1600-1675  3L
An examination of the achievements of painters in Rome and Naples from Caravaggio and the Carracci to Maratta and Gaulli, including the work of Cortona, Poussin, Artemesia Gentileschi, and others.
PREREQUISITE Level 3 or above.
**ARTH 359/3.0**  
*Italian Baroque Sculpture*  
An examination of the sculptural achievements of Gianlorenzo Bernini, Algardi, and their contemporaries.  
PREREQUISITE Level 3 or above.

**ARTH 362/3.0**  
*Spanish Painting from El Greco to Goya*  
A comprehensive study of Spanish painting from the later 16th to the early 19th century, including the work of El Greco, Ribera, Velázquez, Zurbarán, Cano, Murillo, Carreno and Goya.  
PREREQUISITE Level 3 or above.

**ARTH 369/3.0**  
*Architecture of the Renaissance Period*  
Theory and practice of architecture and town planning from the 15th to the late 16th centuries in Italy and elsewhere in Europe.  
PREREQUISITE Level 3 or above.

**ARTH 370/3.0**  
*Architecture of the Baroque Period*  
Theory and practice of architecture and town planning from the late 16th to the early 18th centuries in Italy and elsewhere in Europe.  
PREREQUISITE Level 3 or above.

**ARTH 375/3.0**  
*Early Netherlandish Painting*  
A study of Netherlandish painters (c.1410-1500) from the Master of Flémalle and Jan van Eyck to Geertgen tot Sint Jans and Hieronymus Bosch.  
RECOMMENDATION ARTH 213/6.0.  
PREREQUISITE Level 3 or above.

**ARTH 395/3.0**  
*Internship*  
Students in Art History and Fine Art can apply to take a practical internship in a museum or gallery, where they would undertake research or curatorial activities. All internships must be approved in advance by written application to the Undergraduate Coordinator. Approval will depend on the quality of the proposal and the academic record of the applicant. Students are required to write a report about their experience and are evaluated jointly by the employer and a faculty member from the Department of Art. It is the responsibility of students to arrange internships.  
NOTE Depending on location, substantial travel and subsistence costs may be involved.  
PREREQUISITES Level 3 or above and registration in an ARTH or ARTF Major or Medial Plan and permission of the Department.

**ARTH 399/3.0**  
*The English Country House*  
Selected studies of the English Country house, its architecture, landscape gardens, interior design, and contents.  
NOTE Offered only at the Bader International Study Centre, Herstmonceux. Students must participate in field trips.  
PREREQUISITES Level 3 or above.

**ARTH 401/3.0**  
*Studies in Iconography*  
The study of a selected theme within the subject matter of Western art, concentrating on its changing modes of representation in response to historical and artistic circumstances.  
PREREQUISITES A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

**ARTH 402/3.0**  
*Studies in Renaissance Painting Technique*  
An in-depth study of Renaissance painting techniques in Italy and/or Northern Europe. Selected issues of technique and conservation will be examined within a broader art-historical framework.  
PREREQUISITES A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.
ARTH 404/3.0  Conservation Principles  3L
A general survey course dealing with various aspects of conservation and museology. The course deals with professional ethics, control of the factors causing deterioration and with preventive conservation including care in handling, transporting, and storing cultural property. Open to upper-year undergraduate students with permission of the Department.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARTH 410/3.0  Studies in the History of Textiles and Dress  3S
Studies in the textiles and dress of selected periods with a focus upon visual culture and/or material culture.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARTH 415/3.0  Topics in Medieval Art History  3S
A detailed study of one area or topic in the history of medieval European art.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARTH 416/3.0  Gothic: From High Culture to Sub Culture  3S
This course considers the invention and morphology of the ‘Gothic’ as an aesthetic, religious, and intellectual construct from c.1500 to the present. As one of two prevailing constructs/idioms in the Western tradition (including the ‘Classical’), the Gothic is an ideal or frequently anti-ideal expressed in literature, art, architecture and cinema. This course will consider aspects of the history of gothic from the Renaissance to the present across a range of media.
RECOMMENDATION  ARTH 308/3.0.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARTH 419/3.0  Performance Art Studies  3S
This seminar/practicum course for studio artists focuses on the distinctive intermedia methods found in performance art as developed from the mid-1950s to the present.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH or ARTF Major or Medial Plan.

ARTH 420/3.0  Art and Activism  3L/S
An examination of both modern and postmodern contemporary art as activism sampled from Western and non-Western practices. The chronological period of study is from the end of the 1960s to the present. Theoretical frameworks to be used include social movement theory, postcolonial theory, and critical museum studies.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARTH 421/3.0  Topics in Early 20th-Century Art History  3S
A detailed study of one area or topic in the history of early 20th century art.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARTH 422/3.0  Topics in Later 20th-Century Art History  3S
A detailed study of one area or topic in the history of later 20th century art.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARTH 429/3.0  Topics in 19th-Century Visual Culture  3S
A detailed study of one area or topic in the history of 19th century visual culture.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.
ARITH 434/3.0  Non-Western Art in Western Collections  
A consideration of the history of collecting and public collections; of museum policy and practice; and of Western notions of art and culture as they are applied in the museum to non-Western art.
NOTE  Field trip required. Cost varies to a maximum of $80.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARITH 435/3.0  The ‘New Art History’: Critical and Cultural Theory  
An introduction to key structuralist, poststructuralist, and marxist theories and to those art historians on whose work they have been most influential.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARITH 442/3.0  Critical Writing on Photography: Meaning and Practice  
This seminar focuses on historical and contemporary critical writing to explore historical and contemporary perspectives on the nature, theory, and practice of photography. It is a course about ideas rather than images - ideas about photographs, about looking at photographs, and about reading photographs - ideas that have governed the way we look at, respond to, and draw meaning from photographs.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARITH 446/3.0  Topics in Northern Renaissance and Baroque Art  
A detailed study of one artist or theme in the visual culture of northern Europe, primarily The Netherlands and/or Germany. Topics may focus on the Renaissance and/or Baroque era (ca. 1400-1750).
RECOMMENDATION  ARTH 213/6.0 or ARTH 353/3.0 or ARTH 354/3.0 or ARTH 375/3.0.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARITH 457/3.0  The Palladian Villa: Its Antecedents and Tradition  
The villa or country house for seasonal habitation will be studied with special reference to the villas of Andrea Palladio (1508-1580). Attention will also be paid to the inception of the villa building type in antiquity, and in the Neo-Palladian movement in villa design.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARITH 458/3.0  The Primitive and the Classical in Canadian Architecture  
Case studies based on archival material and existing buildings in Eastern Ontario will develop historical/critical methodology and specialized research skills.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARITH 482/3.0  Gothic Sculpture  
A study of the evolution of Gothic sculpture from the mid-12th century to the 15th century. Topics will range from the elaborate sculptural programs of great cathedrals to the work of Claus Sluter and other major sculptors of the late Middle Ages.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARITH 486/3.0  16th-Century Painting in Venice  
An examination of selected topics in the painting of Venice and the Veneto.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.
ARTH 492/3.0  Studies in the Literature of Art  3S
The detailed, analytic study of a selected body of texts within the literature of art, directed towards gaining an understanding of the dominant theories, critical attitudes, or historical perspectives on art during a particular period.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARTH 494/3.0  Problems in Southern Baroque Art  3S
A study of selected problems in the art of the 17th century in Southern Europe (Italy, Spain).
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARTH 496/3.0  Studies in Renaissance Draughtsmanship  3S
A detailed study of the drawings of a major Renaissance artist or group of artists, with working sessions in the study rooms of important drawing collections in Ontario and the Eastern United States.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.

ARTH 497/3.0  Studies in Baroque Draughtsmanship  3S
A detailed study of the drawings of a major Baroque artist or group of artists, with working sessions in the study rooms of important drawing collections in Ontario and the Eastern United States.
PREREQUISITES  A GPA of 2.60 in 24.0 units in ARTH and Level 4 and registration in an ARTH Major or Medial Plan.
**BCHM 102/3.0  Introduction to Biochemistry**  
3L;1T  
Chemical principles as applied to biochemistry, human and clinical biochemistry. Winter Term.  
**NOTE** Primarily intended for students in Nursing. Arts & Science students require permission of the Department.  
**RECOMMENDATION** 4U Chemistry.  
**EXCLUSION** No more than 3.0 units from BCHM 102/3.0; BCHM 315/3.0.  
**EXCLUSION** No more than 3.0 units from BCHM 102/3.0; BCHM 316/3.0.  
**EXCLUSION** No more than 1 course from BCHM 102/3.0; BCHM 316/6.0.

**BCHM 310/6.0  General Biochemistry**  
3L;3P alt.wks.  
**NOTE** Students lacking the prerequisites CHEM 222/3.0 or CHEM 282/3.0 may take these courses as a corequisite with permission of the Department.  
**PREREQUISITE** (MBIO 218/3.0 and CHEM 222/3.0 and CHEM 223/3.0) or CHEM 282/3.0.  
**EXCLUSION** No more than 6.0 units from BCHM 310/6.0; BCHM 315/3.0; BCHM 316/3.0.  
**EXCLUSION** No more than 1 course from BCHM 102/3.0; BCHM 316/6.0.

**BCHM 313/3.0  Physical Biochemistry**  
3L  
The application of physical chemistry to biological problems, with an emphasis on arithmetical and algebraic manipulation. Topics include enzyme kinetics, bioenergetics, centrifugation, radioactivity and spectroscopy.  
**RECOMMENDATION** BCHM 310/6.0 or (BCHM 315/3.0 and BCHM 316/3.0) and a solid background in physical, analytical and organic chemistry are recommended.  
**PREREQUISITE** (CHEM 222/3.0 and CHEM 223/3.0) or CHEM 282/3.0.

**BCHM 315/3.0  Proteins and Enzymes**  
3L  
Principles of protein biochemistry, enzymology, and protein engineering.  
**NOTE** Students lacking the prerequisites CHEM 222/3.0 or CHEM 282/3.0 may take these courses as a corequisite with permission of the Department.  
**PREREQUISITE** (MBIO 218/3.0 and CHEM 222/3.0 and CHEM 223/3.0) or CHEM 282/3.0  
**EXCLUSION** No more than 6.0 units from BCHM 310/6.0; BCHM315/3.0; BCHM 316/3.0.  
**EXCLUSION** No more than 3.0 units from BCHM 102/3.0; BCHM 315/3.0.

**BCHM 316/3.0  Metabolism**  
3L  
**PREREQUISITE** BCHM 315/3.0.  
**EXCLUSION** No more than 6.0 units from BCHM 310/6.0; BCHM 315/3.0; BCHM 316/3.0.  
**EXCLUSION** No more than 3.0 units from BCHM 102/3.0; BCHM 316/3.0.  

**BCHM 317/3.0  Introductory Biochemistry Laboratory**  
4P  
Application of separation and assay techniques to the study of proteins, metabolism and molecular biology. Attendance required in both terms. Enrolment will be limited because of laboratory constraints, and selection will be based on academic standing.  
**COREQUISITES** BCHM 315/3.0 and BCHM 316/3.0.  
**EXCLUSION** No more than 3.0 units from BCHM 317/3.0; BIOL 404/3.0 (formerly BIOL 304/3.0).

**BCHM 410/3.0  Protein Structure and Function**  
3L  
This course presents an integrated approach to the study of protein function. Topics include proteomic techniques, mass spectrometry, protein purification, imaging, surface plasmon resonance, calorimetry, bioinformatics and protein evolution, protein modifications and processing, interpretation and applications of 3-D structure, and structure-function relationships.  
**NOTE** Offered jointly with BCHM 810/3.0. Students in a LISC or BMCO Plan should contact the Department regarding prerequisites and permission to register.
PREREQUISITE    Level 4 and (registration in a BCHM Specialization or Major Plan) and (a GPA of 2.7 in BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, BCHM 317/3.0, MBIO 218.3.0).

BCHM 411/3.0  Advanced Molecular Biology     3L/T
This course concentrates on the molecular biology of mammalian models particularly mechanisms involved in human diseases. The human genome project, forensic analysis, DNA diagnostics of human diseases, models of transcriptional and growth regulation and cancer, DNA repair, RNA processing and translation are all discussed. Emphasis on recent findings and course materials will be drawn from current reviews.
NOTE    Students in a LISC or BMCO Plan should contact the Department regarding prerequisites and permission to register.
PREREQUISITE    Level 4 and (registration in a BCHM Specialization or Major Plan) and (a GPA of 2.7 in BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, BCHM 317/3.0, MBIO 218.3.0).

BCHM 421/6.0  Advanced Biochemistry Laboratory I    12P
Biochemical research techniques with emphasis on nucleic acids, protein structure and function, regulation of gene expression and metabolic control processes.
NOTE    6.0-unit course offered in the Fall Term.
PREREQUISITES    Level 4 and (registration in a BCHM Specialization Plan) and (a GPA of 2.9 in BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, BCHM 317/3.0, MBIO 218.3.0).

BCHM 422/6.0  Advanced Biochemistry Laboratory II    12P
An independent research project by each student in one of the departmental research labs. Evaluation is based on oral presentation, lab performance and a thesis.
NOTE    6.0-unit course offered in the Winter Term.
PREREQUISITE    Level 4 and (registration in a BCHM Specialization Plan) and (a GPA of -2.9 in BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, BCHM 317/3.0, MBIO 218.3.0).

BCHM 432/3.0 The Molecular Basis of Cellular Function     3L
Principles of regulatory mechanisms; regulation of cellular function and growth by oncogenes, growth factors, isoprenoids and steroid hormones. Receptors, second messengers and protein phosphorylation. Correlation of cell ultrastructure with biochemical function. Description of the components, assembly, metabolism and evolution of cellular structures are described.
NOTE    Students in a LISC Plan should contact the Department regarding prerequisites and permission to register.
PREREQUISITES    Level 4 and (registration in a BCHM Specialization or Major Plan) and (a GPA of 2.7 in BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, BCHM 317/3.0, MBIO 218.3.0).
EXCLUSION    No more than 3.0 units from BCHM 432/3.0; BCHM 431/3.0.
EXCLUSION    No more than 3.0 units from BCHM 432/3.0; BCHM 433/3.0.

BCHM 441/3.0  Current Topics in Biochemistry     3T/S/P
Tutorials, assignments and demonstrations in important subjects in biochemistry emphasizing topics of broad interest. Particular emphasis will be paid to the applications of biochemical knowledge and new technologies.
NOTE    Students in the BCHM Specialization Plan registered in BCHM 421/6.0 and BCHM 422/6.0 will not be allowed to register in BCHM 441/3.0; Students in the LISC Specialization Plan registered in one of ANAT 499/9.0, CANC 499/9.0, EPID 499/9.0, LISC 499/9.0, MICR 455/6.0, MICR 499/9.0, NSCI 499/9.0, PATH 499/9.0, PHAR 499/9.0 or PHGY 499/9.0 will not be allowed to register in BCHM 441/3.0.
PREREQUISITES    Level 4 and (registration in a BCHM Major Plan) and (a GPA of 2.7 in BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, BCHM 317/3.0, MBIO 218.3.0).

BCHM 442/3.0 Seminars in Biochemistry     3T/S/P
Tutorials, assignments and demonstrations in important subjects in biochemistry emphasizing topics of broad interest. Particular emphasis will be paid to the applications of biochemical knowledge and new technologies.
NOTE    Students in the BCHM Major Plan registered in BCHM 441/3.0 will not be allowed to register in BCHM 442/3.0.
PREREQUISITES    Level 4 and (registration in a BCHM Specialization Plan) and (a GPA of 2.7 in BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, BCHM 317/3.0, MBIO 218.3.0).
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Description</th>
<th>Notes</th>
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<tbody>
<tr>
<td>BIOL 102/3.0</td>
<td>Introductory Biology of Cells</td>
<td>3L;1.5P</td>
<td>An introduction to the basic themes and concepts of modern biology spanning organizational levels from molecules to cells in an evolutionary context.</td>
<td>NOTE Lab Manual: estimated cost $10. RECOMMENDATION 4U Biology and Chemistry, or equivalent high school background, are highly recommended.</td>
</tr>
<tr>
<td>BIOL 103/3.0</td>
<td>Introductory Biology of Organisms</td>
<td>3L;1.5P</td>
<td>An introduction to the basic themes and concepts of modern biology spanning organizational levels from organisms to ecosystems in an evolutionary context.</td>
<td>NOTE Lab Manual: estimated cost $13. PREREQUISITE BIOL 102/3.0.</td>
</tr>
<tr>
<td>BIOL 110/3.0</td>
<td>Human Genetics and Evolution</td>
<td>3L;1T</td>
<td>Introductory genetics and evolutionary processes as they relate to the human condition - genetic diseases, medical techniques, inheritance and ethical issues such as cloning and genetically modified foods.</td>
<td>ONE-WAY EXCLUSION May not be taken with or after BIOL 102/3.0; BIOL 103/3.0.</td>
</tr>
<tr>
<td>BIOL 111/3.0</td>
<td>Ecology and the Environment</td>
<td>2L;1T</td>
<td>Introduces the basic concepts of ecology and shows how they relate to environmental issues such as population growth, resource management, biodiversity, agriculture, air and water pollution, energy, and climate change, and to solutions leading to a sustainable environment.</td>
<td>NOTE Also offered as a distance course. Consult Continuing and Distance Studies. ONE-WAY EXCLUSION May not be taken with or after BIOL 302/3.0; BIOL 303/3.0.</td>
</tr>
<tr>
<td>BIOL 201/3.0</td>
<td>Diversity of Life I</td>
<td>3L;3P</td>
<td>A survey of bacteria, algae, fungi and plants, their internal organization and their relationships to their environment. Organismal biology is discussed in a phylogenetic context and the evolution of organizational complexity and the relations between structure and function are stressed.</td>
<td>NOTE Lab Manual: estimated cost $20. NOTE Field trip: estimated cost $12.</td>
</tr>
<tr>
<td>BIOL 202/3.0</td>
<td>Diversity of Life II</td>
<td>3L;3P</td>
<td>A survey of animals, their internal organization and their relationships to their environment. Organismal biology is discussed in a phylogenetic context and the evolution of organizational complexity and the relations between structure and function are stressed.</td>
<td>NOTE Lab Manual: estimated cost $30. NOTE Field trip: estimated cost $35.</td>
</tr>
<tr>
<td>BIOL 205/3.0</td>
<td>Mendelian and Molecular Genetics</td>
<td>3L;3P</td>
<td>An introduction to Mendelian and molecular genetics covering the basic mechanisms of genetic transmission, gene structure and function, as well as the application of molecular genetics in medicine and biotechnology.</td>
<td>NOTE Lab Manual: estimated cost $15. PREREQUISITE A GPA of 1.90 in BIOL 102/3.0 and BIOL 103/3.0.</td>
</tr>
<tr>
<td>BIOL 206/3.0</td>
<td>Evolutionary Genetics</td>
<td>3L;3P</td>
<td>An introduction to the genetic mechanisms of population differentiation and evolutionary change - from molecules to species. The genetical theory of evolution is also applied to problems involving conservation, biotechnology and the evolution of disease.</td>
<td>NOTE Lab Manual: estimated cost $15. PREREQUISITE BIOL 201/3.0 and (a minimum grade of C- in BIOL 205/3.0). COREQUISITE BIOL 202/3.0.</td>
</tr>
</tbody>
</table>
BIOL 210/3.0  Biology of Sex     3L;1T alt.wks.
Why sex? The evolutionary origins and consequences of sex and sexual reproduction. Topics include costs and benefits of sexual reproduction, the evolution and coevolution of sexes, gametes and genitalia, mating systems, gender differences and sex determination throughout the biotic world.
PREREQUISITES  Level 2 or above and [(BIOL 102/3.0 and BIOL 103/3.0) or BIOL 110/3.0 or (BIOL 201/3.0 and BIOL 202/3.0)].

BIOL 243/3.0  Data Management and Analysis     3L;1P
Data management for biologists – from the formulation of interesting questions, through the design of experiments and statistical analysis, to final publication of results in papers and reports. Emphasis is on the application of statistical methods using statistical software rather than theory.
NOTE  Enrolment is limited. Priority will be given to students registered in BIOL Major (Science); BIOL, BIMA, BIPS, EBiO Specialization (Science) Plans.
RECOMMENDATION  12U Functions and 12 U Calculus or equivalent high school background or MATH 006/3.0 is highly recommended.
EXCLUSION  No more than 3.0 units from BIOL 243/3.0; CHEE 209/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0 (formerly PHED 251/3.0); NURS 323/3.0; POLS 211/3.0; PSYC 202/3.0; STAT 261/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0; COMM 162/3.0.

BIOL 302/3.0  Population and Evolutionary Ecology     3L;3P
Introductory ecology dealing with population growth and regulation, species interactions and reproductive and life history strategies. Laboratory work includes field studies as well as individual and group projects.
NOTE  Field trip: estimated cost $75.
PREREQUISITES  BIOL 201/3.0, BIOL 202/3.0 and (a minimum grade of C- in BIOL 206/3.0)
COREQUISITE  BIOL 243/3.0 or PSYC 202/3.0 or STAT 269/3.0.

BIOL 303/3.0  Community and Ecosystem Ecology     3L;3P
An introduction to the major ecological concepts at the community and ecosystem scales. Patterns and mechanisms underlying: community structure; biogeographic patterns; element cycles in terrestrial and aquatic ecosystems. Environmental problems are assessed in terms of ecological principles. Laboratory work includes field studies as well as individual and group projects.
NOTE  Field trip estimated transportation cost $10.
COREQUISITES  BIOL 201/3.0 and BIOL 202/3.0 and (a minimum grade of C- in BIOL 206/3.0) and (BIOL 243/3.0 or PSYC 202/3.0 or STAT 269/3.0).

BIOL 307/3.0  Field Biology I
Two weeks of field work plus written assignments in one or two areas of study to be done when specialized modules are available in May, July, August or February. Studies may include ecology of birds, fish, insects, small mammals, plants, tundra and taiga, lakes and caves.
NOTE  Field trip: estimated cost of each module and the schedule of offerings for each year is available in January.
PREREQUISITES  BIOL 201/3.0 and BIOL 202/3.0. Prior to registering in the course students must complete the application process, be placed in a module and complete the field work.

BIOL 308/1.5  Field Studies in Biology I
One week of field work plus written assignments in one or two areas of study to be done when specialized modules are available in May, July, August or February. Studies may include ecology of birds, fish, insects, small mammals, plants, tundra and taiga, lakes and caves.
NOTE  Field trip: estimated cost of each module and the schedule of offerings for each year is available in January.
PREREQUISITES  BIOL 201/3.0 and BIOL 202/3.0. Prior to registering in the course students must complete the application process, be placed in a module and complete the field work.

BIOL 309/1.5  Field Studies in Biology II
A program of field studies as described for BIOL 308/3.0 but differing in content.
NOTE  Field trip: estimated cost of each module and the schedule of offerings for each year is available in January.
PREREQUISITE  BIOL 308/3.0. Prior to registering in the course students must complete the application process, be placed in a module and complete the field work.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>BIOL 315/3.0</td>
<td>Plants for People</td>
<td>3L</td>
<td>General groups of plants used for food, fibre, shelter and pleasure. The plant parts that are used and the conversion of these to consumer products will be surveyed.</td>
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<td><strong>PREREQUISITES</strong>     BIOL 102/3.0 and BIOL 103/3.0 and BIOL 201/3.0.</td>
</tr>
<tr>
<td>BIOL 316/3.0</td>
<td>Fisheries Biology</td>
<td>3L</td>
<td>An introduction to the basic principles of fisheries biology and examination of the biological foundations of current problems affecting the world’s fisheries, with an emphasis on developing sound science-based strategies to resolve these problems.</td>
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<td><strong>PREREQUISITES</strong>     BIOL 103/3.0 and BIOL 202/3.0.</td>
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<td><strong>EQUIVALENCY</strong>        BIOL 415/3.0.</td>
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<tr>
<td>BIOL 317/3.0</td>
<td>Field Biology II</td>
<td></td>
<td>Two weeks of field work plus written assignments in one or two areas of study to be done when specialized modules are available in May, July, August or February. Studies may include ecology of birds, fish, insects, small mammals, plants, tundra and taiga, lakes and caves.</td>
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<td><strong>NOTE</strong>               Field trip: estimated cost of each module and the schedule of offerings for each year is available in January. <strong>PREREQUISITE</strong>          BIOL 307/3.0. Prior to registering in the course students must complete the application process, placed in a module and complete the field work.</td>
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<td><strong>EQUIVALENCY</strong>        BIOL 407/3.0.</td>
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<tr>
<td>BIOL 319/3.0</td>
<td>Introduction to Ethnobotany</td>
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<td>Ethnobotany is the study of culture arising from the relationship between indigenous peoples and local flora. The discipline of ethnobotany will be introduced and case studies used to examine the ways in which challenges such as climate change, deforestation, cultural assimilation and pressure to discover new medicines are changing global communities.</td>
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<td><strong>NOTE</strong>               Offered only as a distance course. Consult Continuing and Distance Studies. <strong>PREREQUISITE</strong>     BIOL 102/3.0, BIOL 103/3.0, BIOL 201/3.0.</td>
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<tr>
<td>BIOL 320/3.0</td>
<td>Applied Field Botany</td>
<td>1L;3P</td>
<td>Traditional systematic and taxonomic approaches to the study of plants will be examined in addition to the development of applied field skills for botanical research, resource inventories and site assessment.</td>
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<td><strong>NOTE</strong>               Field Trips: estimated cost $20. <strong>PREREQUISITE</strong>     Level 3 or above.</td>
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<tr>
<td>BIOL 321/3.0</td>
<td>Animal Behaviour</td>
<td>3L;3P</td>
<td>An evolutionary approach to the study of animal behaviour. This course explores processes and patterns in behaviour, with emphasis on perception, communication, foraging, spacing, reproduction and social behaviour in a variety of animals. Methods of studying and analyzing behaviour are explored through laboratory exercises.</td>
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<td><strong>COREQUISITE</strong>        BIOL 201/3.0 and BIOL 202/3.0.</td>
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<tr>
<td>BIOL 322/3.0</td>
<td>Environmental Physiology of Animals</td>
<td>2L;1S</td>
<td>A comparative examination of interaction between animals and their environment including: physiological adaptations to extreme environments (e.g., arctic, desert); responses to acute and chronic environmental stress (e.g., hypoxia, temperature); environmental regulation of normal physiological processes; uses of comparative models in other fields.</td>
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<td><strong>PREREQUISITE</strong>       BIOL 338/3.0 or BIOL 339/3.0.</td>
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<tr>
<td>BIOL 323/3.0</td>
<td>Vertebrate Diversity and Evolution</td>
<td>3L;3P</td>
<td>Vertebrate biodiversity including characteristics and adaptations of the major classes of the living vertebrates; major environmental and geological changes associated with vertebrate evolution.</td>
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<td><strong>NOTE</strong>               Field trip: estimated cost $35. <strong>PREREQUISITITES</strong>   BIOL 201/3.0 and BIOL 202/3.0 and BIOL 206/3.0.</td>
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BIOL 327/3.0  Field Biology III
Two weeks of field work plus written assignments in one or two areas of study to be done when specialized modules are available in May, July, August or February. Studies may include ecology of birds, fish, insects, small mammals, plants, tundra and taiga, lakes and caves.
NOTE Field trip: estimated cost of each module and the schedule of offerings for each year is available in January.
PREREQUISITES BIOL 307/3.0 and BIOL 317/3.0. Prior to registering in the course students must complete the application process, be placed in a module and complete the field work.

BIOL 330/3.0  Cell Biology
An introduction to the cellular basis of biological variation. The course explores the control of cell function exerted by the nucleus, the pathways for building and fuelling cells, and the control of integrative cellular events.
PREREQUISITE A grade of C- in BIOL 205/3.0.

BIOL 331/3.0  Analytical Genomics
This course will explore the structure of genomes and the nature and origin of gene families as well as large scale functional genomics methods for analysis of novel gene function.
PREREQUISITE BIOL 205/3.0.

BIOL 333/3.0  Applied Biology
The course explores biological contributions to society in the fields of environmental assessment and management, materials and food production, and biotechnology. Emphasis is placed on understanding of applied processes in relevant service and production industries.
NOTE Also offered as a distance course. Consult Continuing and Distance Studies.
PREREQUISITES BIOL 201/3.0 and BIOL 205/3.0.

BIOL 334/3.0  Comparative Biochemistry
A survey of selected topics including: general principles of enzymology; bioenergetics; metabolism and its control; the importance of proteomic and enzyme research in functional genomics and biotechnology; mechanisms whereby animals and plants acclimate at the biochemical level to environmental stress.
NOTE Preference will be given to students registered in a Biology degree program or who require this course for their program.
PREREQUISITES BIOL 103/3.0 and CHEM 112/6.0 and (a minimum grade of C- in BIOL 205/3.0).

BIOL 335/3.0  Limnology and Aquatic Ecology
Physics, chemistry and biology of freshwater lakes. Emphasis on: morphometry; light and temperature; water chemistry in relation to nutrients; physiological requirements; composition and interaction of algal and invertebrate populations; eutrophication; pollution; environmental change.
NOTE Field trip: estimated cost $25.
RECOMMENDATION BIOL 201/3.0 and BIOL 202/3.0 are highly recommended
PREREQUISITE CHEM 112/6.0 or CHEM 116/6.0.

BIOL 339/3.0  Animal Physiology
Focus is placed on adaptive physiology and integrative function (nervous and hormonal, movement, excretion, circulation and digestion) with examples selected from various phylogenetic levels as appropriate.
PREREQUISITES BIOL 202/3.0 and (a grade of C- in BIOL 205/3.0).
EXCLUSION No more than 3.0 units from BIOL 338/3.0; BIOL 339/3.0.

BIOL 341/3.0  Plant Physiology
The course examines various aspects of plant cell biology, physiology, and biochemistry including carbon and nitrogen metabolism (photosynthesis, respiration, etc.), water relations, mineral nutrition, response to environmental stress, roles of plant hormones, plant biotechnology.
PREREQUISITE BIOL 205/3.0.
EXCLUSION No more than 3.0 credits from BIOL 301/3.0; BIOL 341/3.0.
BIOL 350/3.0  Evolution and Human Affairs  3L;1.5T
An exploration of how evolutionary thinking can affect our understanding of our lives, our species, and our ability to share the planet with other species.
PREREQUISITE  Level 3 or above.

BIOL 401/3.0  Experimental Approaches to Animal Physiology  3P;1T
Laboratory-based course emphasizing experimental approaches to understanding the principles of animal physiology covered in BIOL 339/3.0.
COREQUISITE  BIOL 339/3.0.
EXCLUSION  BIOL 338/3.0.
EQUIVALENCY  BIOL 340/3.0.

BIOL 402/3.0  Experiments in Plant Physiology  3P;1T
Laboratory-based course emphasizing experimental approaches to understanding the principles of plant physiology covered in BIOL 341/3.0.
COREQUISITE  BIOL 341/3.0.
EXCLUSION  BIOL 301/3.0.
EQUIVALENCY  BIOL 342/3.0.

BIOL 403/3.0  Frontiers in Cell and Molecular Physiology  3P;1T
A hands-on survey of selected experimental approaches to studying cell biology and molecular physiology.
COREQUISITE  (BIOL 330/3.0 or MBIO 218/3.0) and (BIOL 334/3.0 or BIOL 339/3.0 or BIOL 341/3.0 or BIOL 301/3.0 or BIOL 338/3.0)
EQUIVALENCY  BIOL 325/3.0

BIOL 404/3.0  Techniques in Molecular Biology  2L;1.5T/P
Two weeks of intensive workshops and laboratory work to be carried out as a two-week module in May. Practical work may include DNA and RNA isolations, gene cloning, plasmid and viral vector studies, DNA sequencing and PCR. Enrolment is limited.
NOTE  Lab Expenses: estimated cost $250; Priority to students registered in BIOL MAJ and SSP degree programs.
PREREQUISITE  BIOL 205/3.0.
EXCLUSION  No more than 3.0 credits from BCHM 317/3.0; BIOL 404/3.0.
EQUIVALENCY  BIOL 304/3.0.

BIOL 409/3.0  Bioremediation  2L;1.5T/P
The use of living organisms to address environmental problems. Topics include mechanisms of contaminant extraction, absorption, concentration, and degradation using bacteria and plants to detoxify organic compounds, sequester heavy metals or clean up excess nutrients.
NOTE  Field trip: estimated cost $40.
RECOMMENDATION  BIOL 301/3.0 or BIOL 322/3.0 or BIOL 339/3.0 or BIOL 341/3.0 is recommended.
PREREQUISITES  BIOL 201/3.0 and BIOL 202/3.0.

BIOL 410/3.0  Ecology of Lakes and Streams  3L
An in-depth look at the ecology and evolution of freshwater aquatic ecosystems, considering the role of populations, interspecific interactions, and the flow of energy and matter. There will be an emphasis on linking ecological theory with empirical evidence from aquatic systems. Topics will include dispersal and colonization, ecological genetics, resource competition, predator-prey interaction, evolution of life-history strategies, habitat coupling, and biogeochemical cycling.
RECOMMENDATION  BIOL 335/3.0.
PREREQUISITE  BIOL 302/3.0 or BIOL 303/3.0.
BIOL 416/3.0    Terrestrial Ecosystems  3L;3P alt.wks.
Principles of terrestrial ecosystem ecology: soils; plant-soil interactions; energy and water balance; carbon and nutrient cycling; species effects; landscape-level and whole earth biogeochemistry; global change.
NOTE     Overnight field trip cost $50.
PREREQUISITE    BIOL 303/3.0 or GPHY 317/3.0.
ONE-WAY EXCLUSION    May not be taken with or after BIOL 510/3.0.

BIOL 421/3.0    Conversation Genetics  2L;2T
This course will explore genetic aspects of conservation, addressing questions such as: How is genetic variation lost? Can loss of genetic variation result in extinction? How much genetic variation is 'enough' for population viability? Can loss of genetic variation be prevented? How do we define management units for conservation? And is hybridization a problem or a benefit for conservation?
COREQUISITE    BIOL 302/3.0 or BIOL 303/3.0.
EQUIVALENCY    BIOL 310/3.0.

BIOL 422/3.0    Conservation Biology  3L;3T
The application of biological research to the conservation of biodiversity and natural resources, as well as the interaction of biology with philosophy, politics and economics in influencing conservation policy.
NOTE     A course fee to cover guest speakers and field trips of not more than $40.
PREREQUISITES    BIOL 302/3.0 or BIOL 303/3.0.

BIOL 423/3.0    Modern Insect Science  2L;1S;1P
An exploration into the world of insects, one of the most abundantly successful group of organisms on the earth.
NOTE     An overnight field trip is estimated to cost $65; a limited number of bursaries may be available for exceptional circumstances; contact the instructor early in the previous term.
RECOMMENDATION    BIOL 303/3.0 or MBIO 218/3.0
ONE-WAY EXCLUSION    May not be taken with or after BIOL 507/3.0.
PREREQUISITE    BIOL 201/3.0 and BIOL 202/3.0 and BIOL 205/3.0.

BIOL 430/3.0    Molecular Genetics of Development  3L/S
The use of genetic analysis to understand developmental processes such as cell fate determination, pattern formation and morphogenesis. Emphasis will be on the molecular pathways used during embryonic development, highlighting applications and techniques using model organisms.
PREREQUISITES    BIOL 330/3.0 or MBIO 218/3.0.

BIOL 431/3.0    Cellular Basis of Adaptation  3L;1S
The cellular origins of diversity in physiological processes, with consideration of the role of evolutionary, developmental and molecular mechanisms.
PREREQUISITES    BIOL 330/3.0 and (BIOL 301/3.0 or BIOL 334/3.0 or BIOL 339/3.0 or BIOL 341/3.0 or BIOL 338/3.0)

BIOL 433/3.0    Theoretical Foundations of Biology  3L;2S
An examination of the foundations of evolution, classification and other selected topics from historical, philosophical and scientific perspectives.
PREREQUISITES    BIOL 302/3.0 or BIOL 303/3.0.

BIOL 439/3.0    Natural Selection and Microevolution  3L;3P
The mechanisms of evolutionary change - from genes to societies. How natural selection interacts with genetic and population processes to make organisms adapted to their environment and to create biological diversity.
PREREQUISITES    BIOL 302/3.0 or BIOL 303/3.0.

BIOL 440/3.0    Speciation and Macroevolution  2L;3P
An exploration of higher-level processes in evolution spanning considerations of mechanisms of speciation, extinction, adaptive radiation, and phylogenetics.
PREREQUISITES    BIOL 302/3.0 or BIOL 303/3.0.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Lectures</th>
<th>Tutorials</th>
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<tbody>
<tr>
<td>BIOL 441/3.0</td>
<td>Molecular Genetics</td>
<td>2L;1T</td>
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<tr>
<td>BIOL 445/3.0</td>
<td>Neuroethology</td>
<td>3L;1S</td>
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<tr>
<td>BIOL 501/3.0</td>
<td>Recent Research in Molecular Biology</td>
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<td>BIOL 502/3.0</td>
<td>Plant Cellular Responses to Environmental Stress</td>
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<td>BIOL 503/3.0</td>
<td>Plant Biotechnology</td>
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<tr>
<td>BIOL 506/3.0</td>
<td>Biochemical Adaptations to Life Under Extreme Conditions</td>
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<td>BIOL 507/3.0</td>
<td>Biotechnology</td>
<td>ONE-WAY EXCLUSION</td>
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<tr>
<td>BIOL 508/3.0</td>
<td>Biology of the Cell Cycle</td>
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<td>BIOL 509/3.0</td>
<td>Limnological Environmental Studies</td>
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<td>BIOL 510/3.0</td>
<td>Biogeochemistry and Global Change</td>
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<td>BIOL 515/3.0</td>
<td>Aquaculture</td>
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<td>BIOL 520/3.0</td>
<td>Towards a Sustainable Bioeconomy: Technologies and Implications</td>
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<td>BIOL 522/3.0</td>
<td>Evolutionary Medicine</td>
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<td>BIOL 525/3.0</td>
<td>Animal Communication</td>
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<td>BIOL 526/3.0</td>
<td>Mating Systems</td>
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<tr>
<td>BIOL 527/3.0</td>
<td>Paleolimnology and Global Environmental Change</td>
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**BIOL 441/3.0 Molecular Genetics**

Current research in eukaryotic molecular genetics including gene regulation, transformation, cell proliferation and the analysis of development. Specific topics will vary depending on the instructor but will include plant, insect and mammalian genetics.

**PREREQUISITES**

BIOL 330/3.0 or MBIO 218/3.0.

**EXCLUSION**

No more than 3.0 credits from BIOL 441/3.0; PATH 425/3.0.

**BIOL 445/3.0 Neuroethology**

The current status of research in the study of the neural control of the natural behaviour of animals. Topics include the detection and coding of information in the environment, the integration of this information in the process of decision-making, the generation of the motor patterns that underlie behaviour, and general constraints on form and function of neural circuits.

**PREREQUISITE**

BIOL 338/3.0 or BIOL 339/3.0

**BIOL 501/3.0 Recent Research in Molecular Biology**

**RECOMMENDATION**

BIOL 430/3.0.

**BIOL 502/3.0 Plant Cellular Responses to Environmental Stress**

**PREREQUISITE**

BIOL 301/3.0 or BIOL 330/3.0 or BIOL 334/3.0 or BIOL 341/3.0 or BIOL 430/3.0

**BIOL 503/3.0 Plant Biotechnology**

**PREREQUISITES**

BIOL 205/3.0 and (BIOL 301/3.0 or BIOL 341/3.0).

**BIOL 506/3.0 Biochemical Adaptations to Life Under Extreme Conditions**

**RECOMMENDATION**

(BIOL 301/3.0 or BIOL 341/3.0) and BIOL 322/3.0.

**PREREQUISITES**

BIOL 334/3.0 or (BCHM 315/3.0 and BCHM 316/3.0) or BCHM 310/6.0

**BIOL 507/3.0 Biotechnology**

**ONE-WAY EXCLUSION**

May not be taken with or after BIOL 441/3.0

**BIOL 508/3.0 Biology of the Cell Cycle**

**PREREQUISITE**

BIOL 330/3.0 or MBIO 218/3.0

**BIOL 509/3.0 Limnological Environmental Studies**

**RECOMMENDATION**

BIOL 335/3.0

**BIOL 510/3.0 Biogeochemistry and Global Change**

**RECOMMENDATION**

BIOL 302/3.0 and BIOL 303/3.0.

**BIOL 515/3.0 Aquaculture**

**BIOL 520/3.0 Towards a Sustainable Bioeconomy: Technologies and Implications**

**BIOL 522/3.0 Evolutionary Medicine**

**BIOL 525/3.0 Animal Communication**

**PREREQUISITE**

BIOL 321/3.0

**BIOL 526/3.0 Mating Systems**

**RECOMMENDATION**

BIOL 321/3.0

**BIOL 527/3.0 Paleolimnology and Global Environmental Change**

**RECOMMENDATION**

BIOL 335/3.0.
BIOL 529/3.0  Canadian Trees: Biology, Uses and Future Developments
PREREQUISITE  BIOL 315/3.0.

BIOL 530/3.0  Origins of Biodiversity
RECOMMENDATION  BIOL 201/3.0 and BIOL 202/3.0 and (BIOL 302/3.0 or BIOL 303/3.0 or BIOL 439/3.0).

BIOL 532/3.0  Selected Topics in Biology I
PREREQUISITE  To be announced.

BIOL 533/3.0  Selected Topics in Biology II
PREREQUISITE  To be announced.

BIOL 534/3.0  Selected Topics in Biology III
PREREQUISITE  To be announced.

BIOL 535/3.0  Selected Topics in Biology IV
PREREQUISITE  To be announced.

BIOL 536/3.0  Selected Topics in Biology V
PREREQUISITE  To be announced.

BIOL 537/12.0  Research in Biology
Individual research projects under the supervision of a staff member; reported in the form of a thesis, poster and seminar.

NOTE  In the spring preceding fourth year, students must select projects in consultation with potential supervisors. Registration is subject to availability of a supervisor. Work on the project during summer is advantageous if field studies are required. See also the statement on BIOL 501/3.0-BIOL 536/3.0 in the BIOL Department Information, preliminary information section.

PREREQUISITE  Admission to the final year of a BSCH program in Biology, and permission of the project supervisor and course coordinator.
BIOM 300/3.0   Modeling Techniques in Biology    3L;2P
Modeling will be presented in the context of biological examples drawn from ecology and evolution, including life history evolution, sexual selection, evolutionary epidemiology and medicine, and ecological interactions. Techniques will be drawn from dynamical systems, probability, optimization, and game theory with emphasis put on how to formulate and analyze models.
RECOMMENDATION    MATH 110/6.0 or MATH 111/6.0.
PREREQUISITES    MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or MATH 124/3.0
CANC 440/3.0  Cancer Biology and Therapeutics  1L;2T
A consideration of current knowledge and theories about the biology and treatment of cancer. The course will be presented in a small group format, with active student participation required.
NOTE Priority to students in the LISC Specialization Plan, CANC Sub-Plan.
PREREQUISITES Level 4 in a LISC or BCHM Major or Specialization Plan and (a GPA of 2.5 and permission of the course coordinator.

CANC 497/3.0  Current Topics in Cancer Biology and Genetics  2T
A seminar-based discussion of topics relevant to cancer research. This course will be run as a companion to CANC 499/9.0, and will incorporate the practical experience students gain in that course as one foundation of learning. Students will also be introduced to other relevant practical aspects of cancer research, including critical analysis of current literature, and the presentation scientific results. The course will also involve attending and discussing a number of research seminars offered throughout the year.
COREQUISITE CANC 499/9.0.

CANC 499/9.0  Research Project in Cancer Biology and Genetics  10P
A research project involving the study of cancer biology or genetics. The project will be supervised by a faculty member associated with the Cancer Research Institute, and will provide opportunities for experimental design, data analysis and both written and oral presentation of results. Students must contact a potential faculty supervisor in the Spring preceding registration in fourth year. Enrolment is limited; acceptance by a supervisor required prior to registration.
NOTE Students whose research requires the care and/or handling of animals must also register in LISC 488/0.0.
PREREQUISITE Level 4 in the LISC Specialization Plan, CANC Sub-Plan and permission of the course coordinator.
EXCLUSION No more than 9.0 units from ANAT 499/9.0; CANC 499/9.0; EPID 499/9.0; LISC 499/9.0; MICR 455/6.0; MICR 499/9.0; NSCI 499/9.0; PATH 499/9.0; PHAR 499/9.0; PHGY 499/9.0.
CHEM 112/6.0 General Chemistry 3L;3P,1.5T alt.wks.
A quantitative treatment of chemical phenomena and materials. Critical thinking and problem solving are emphasized. Topics include structure and bonding, gases and condensed phases, thermodynamics, electrochemistry, equilibrium, kinetics.
NOTE Use of a wireless-enabled laptop is not mandatory, but it is recommended that one be brought to all lectures.
NOTE Laboratory consumables: estimated cost $20.
RECOMMENDATION 4U Chemistry or equivalent.
EQUIVALENCY CHEM 116/6.0.

CHEM 211/3.0 Main Group Chemistry 3L;3P
An introduction to chemistry of main group inorganic and organic compounds with the use of fundamental quantum mechanics, molecular orbital diagrams and Lewis structures to describe the structure and bonding. The stereochemistry and chirality of organic compounds, solid state inorganic chemistry, and descriptive chemistry of compounds of the main group elements will be covered. The laboratory will introduce skills in inorganic and organic synthesis.
NOTE Laboratory consumables: estimated cost $20.
PREREQUISITE CHEM 112/6.0 or CHEM 116/6.0.
EXCLUSION No more than 3.0 units from CHEM 211/3.0; CHEM 281/3.0.

CHEM 212/3.0 Principles of Chemical Reactivity 3L;3P alt. wks.
An introduction to the kinetics and mechanisms of reactions in gaseous and condensed phases, including acid-base and nucleophilic substitution reactions at carbon and other main group centers. Other topics will include molecular dynamics and reactions in solution. The laboratory illustrates measurement techniques and develops laboratory skills.
NOTE Laboratory consumables: estimated cost $20.
PREREQUISITES (CHEM 112/6.0 or CHEM 116/6.0) and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or [MATH 123/3.0 and MATH 124/3.0]).
EXCLUSION No more than 3.0 units from CHEM 212/3.0; CHEM 281/3.0.

CHEM 213/3.0 Introduction to Chemical Analysis 3L;3P
Introduction to analytical chemical methods and science. Topics include statistical analysis of data, titrations and equilibrium theory, spectrophotometry and instrumental elemental analysis.
NOTE Laboratory consumables: estimated cost $20.
PREREQUISITE CHEM 112/6.0 or CHEM 116/6.0.

CHEM 221/3.0 Materials, Solutions and Interfaces 3L;3P,3T alt. wks.
A survey of the thermodynamic properties of gases and liquids, including phase and chemical equilibria and electrochemistry. An introduction to the properties of materials, interfaces, surfaces and aqueous solutions. The laboratory uses modern software to facilitate equilibrium calculations, illustrates measurement techniques and develops laboratory skills. Winter Term.
NOTE Laboratory consumables: estimated cost $20.
PREREQUISITES (CHEM 112/6.0 or CHEM 116/6.0) and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or [MATH 123/3.0 and MATH 124/3.0]).

CHEM 222/3.0 Methods of Structure Determination 3L;1.5T
A survey of practical spectroscopic and spectrometric methods for the determinations of the structures of organic and inorganic compounds. Methods will include nuclear magnetic resonance, electronic, infrared/Raman spectroscopy, and mass spectrometry. Tutorials will involve solving compound structures using spectroscopic data, and include an introduction to computational methods in spectroscopy.
PREREQUISITE CHEM 211/3.0 or CHEM 212/3.0 or CHEM 281/3.0.
CHEM 223/3.0  Organic Reactions  3L;3P
Mechanistically oriented study of organic reactions with emphasis on applications to synthesis. The laboratory affords experience in organic synthesis.
NOTE  Laboratory consumables: estimated cost $20.
PREREQUISITES  CHEM 211/3.0 and CHEM 212/3.0.
EXCLUSION  No more than 3.0 units from CHEM 223/3.0; CHEM 282/3.0.

CHEM 281/3.0  General Organic Chemistry I  3L
An introduction to the basic principles of organic chemistry with emphasis on bonding, stereochemistry, reaction intermediates and reaction mechanisms, and structure-reactivity correlations. Intended for students in biological and life sciences. Students in chemistry or biochemistry programs should not enrol in this course.
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE  CHEM 112/6.0 or CHEM 116/6.0.
EXCLUSION  No more than 3.0 units from CHEM 211/3.0; CHEM 281/3.0.
EXCLUSION  No more than 3.0 units from CHEM 212/3.0; CHEM 281/3.0.

CHEM 282/3.0  General Organic Chemistry II  3L;3P
A continuation from CHEM 281/3.0 intended for students in biological sciences, life sciences, and other programs taking no further courses in organic chemistry. Students in chemistry or biochemistry programs should not enrol in this course. Organic molecules and their reactions; relevance to biological systems. Illustrations using biomolecules such as carbohydrates, amino acids and proteins, lipids, and nucleic acids. The laboratory affords experience in elementary organic syntheses.
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.
NOTE  Laboratory consumables: estimated cost $20.
PREREQUISITE  CHEM 281/3.0.
EXCLUSION  No more than 3.0 units from CHEM 223/3.0; CHEM 282/3.0.

CHEM 311/3.0  Mechanistic Organic Chemistry  3L;2T alt. wks.
Fundamental mechanistic concepts of organic reactions, structure-activity relationships, solvent effects and catalysis. Mechanistic aspects of substitution, addition, elimination and pericyclic reactions.
PREREQUISITE  CHEM 223/3.0.

CHEM 312/3.0  Transition Metal Chemistry  3L;1T
Introduction to the chemistry, bonding and structures of coordination compounds of the transition metals; transition metals in the solid state and in biological systems; industrial and environmental aspects of transition metal chemistry.
PREREQUISITE  CHEM 211/3.0.

CHEM 313/3.0  Quantum Mechanics  3L;1T
Elementary principles and applications of wave mechanics with special reference to molecular orbitals and chemical bonding.
PREREQUISITES  (CHEM 211/3.0 or CHEM 222/3.0) and (MATH 111/6.0 or MATH 112/3.0) and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or [MATH 123/3.0 and MATH 124/3.0]) and (PHYS 104/6.0 or PHYS 106/6.0 or PHYS 117/6.0 or PHYS 107/6.0).
EQUIVALENCY  CHEM 346/3.0.

CHEM 321/3.0  Instrumental Chemical Analysis  3L
Overview of instrumental methods of chemical analysis. Topics include gas and liquid chromatography, mass spectrometric detection, new separation methods, electrochemical analysis, inductively coupled plasma-based elemental analysis.
PREREQUISITE  CHEM 213/3.0.
EXCLUSION  No more than 3.0 units from CHEM 321/3.0; ENSC 471/3.0 (formerly ENSC 371/3.0).
CHEM 322/3.0  The Chemical Bond: Computation and Spectroscopy  3L;1T
The application of quantum mechanics to the structures and internal motions of molecules. The foundations of electronic, vibrational, rotational and NMR spectroscopy will be discussed together with their applications.
PREREQUISITE  CHEM 313/3.0 or CHEM 346/3.0 or PHYS 344/3.0.

CHEM 323/3.0  Biological Chemistry  3L
Introduction to the chemical basis of biological systems and biomolecules, protein structure and synthesis, enzyme catalysis, nucleic acids (DNA, RNA), carbohydrates, membranes, cell signalling, biosynthetic and metabolic pathways.
PREREQUISITE  CHEM 311/3.0.

CHEM 326/3.0  Environmental and Green Chemistry  3L
The first part examines chemical contaminants in the atmosphere, water, soils and sediments, including sources, behaviour, transport, and distribution among these environments. The second part introduces Green Chemistry, examining industrial sources of contaminants and the modification of industrial processes in order to minimize environmental impact.
PREREQUISITES  (CHEM 223/3.0 or CHEM 281/3.0) and 6.0 units in CHEM at the 200 level.

CHEM 347/3.0  Applied Surface and Colloid Science  3L
The course covers four major topics. 1. The thermodynamic properties of interfaces (surface energy, wetting, surface area and porosity, capillary effects, work of adhesion/cohesion). 2. Models of adsorption/desorption phenomena. 3. The dynamics of phase transitions (meta-stability, nucleation, spinoidal decomposition). 4. The stability and characterization of colloidal systems. Student appreciation for the importance of these phenomena is cultivated using examples drawn from industrial processes/products including inks, paints, foods, polymer blends, and nanocomposites.
PREREQUISITE  CHEM 221/3.0.

CHEM 397/6.0  Experimental Chemistry  6P;1T
Laboratory course introducing modern experimental methods in chemistry, including synthesis, analytical instrumentation and computational methods. The integration of several methods will be emphasized in the synthesis and characterisation of molecules.
NOTE  Laboratory consumables: estimated cost $80.
PREREQUISITES  12.0 units at the 200 level in CHEM, including CHEM 222/3.0 and CHEM 223/3.0
COREQUISITE  6.0 units at the 300 level in CHEM.
EXCLUSION  No more than 6.0 units from CHEM 397/6.0; CHEM 398/3.0; CHEM 399/3.0.

CHEM 398/3.0  Experimental Chemistry I  6P;1T
Laboratory course. In consultation with the course co-ordinator, and subject to availability, students may select experiments as are relevant to their degree program including synthesis, analytical instrumentation and computational methods. The integration of several methods will be emphasized in the design and characterisation of molecules.
NOTE  Laboratory consumables: estimated cost $40.
PREREQUISITE  6.0 units at the 200 level in CHEM.
COREQUISITE  3.0 units at the 300 level in CHEM or permission of the Department.
EXCLUSION  No more than 6.0 units from CHEM 397/6.0; CHEM 398/3.0; CHEM 399/3.0.

CHEM 399/3.0  Experimental Chemistry II  6P;1T
Laboratory course. In consultation with the course co-ordinator, and subject to availability, students may select experiments as are relevant to their degree program including synthesis, analytical instrumentation and computational methods. The integration of several methods will be emphasized in the design and characterisation of molecules.
NOTE  Laboratory consumables: estimated cost $40.
PREREQUISITE  6.0 units at the 200 level in CHEM.
COREQUISITE  3.0 units at the 300 level in CHEM or permission of the Department.
EXCLUSION  No more than 6.0 units from CHEM 397/6.0; CHEM 398/3.0; CHEM 399/3.0.
CHEM 411/3.0  Advanced Analytical Chemistry  3L
A discussion of recent advances in analytical chemistry and its applications to the environmental, materials and biomedical fields. At least four topics will be covered from sample preparation, separation methods, multidimensional chromatography, elemental spectroscopy, mass spectroscopy, and surface analysis methods. Additional topics will be selected from the current literature.
PREREQUISITE CHEM 321/3.0 or ENSC 471/3.0 (formerly ENSC 371/3.0).

CHEM 412/3.0  Statistical Mechanics  3L
The fundamentals of statistical mechanics with applications to thermodynamic properties of gases, liquids and solids and to chemical equilibrium in dilute gases.
PREREQUISITES (CHEM 221/3.0 and CHEM 313/3.0) or ([PHYS 345/3.0 or PHYS 343/3.0] and PHYS 372/3.0).
EXCLUSION  No more than 3.0 units from CHEM 412/3.0; PHYS 472/3.0.

CHEM 413/3.0  Computational Chemistry  3L
The application of quantum mechanics to chemical structures, energetics, internal motions of molecules, and chemical reactions. An introduction to the use of modern electronic structure software in chemistry.
PREREQUISITE CHEM 313/3.0 or CHEM 346/3.0 or PHYS 345/3.0.

CHEM 414/3.0  Catalysis  3L
An advanced treatment of the concepts and applications of catalysis, including the kinetics of catalysis and topics selected from the areas of homogeneous, heterogeneous, and biocatalysis.
PREREQUISITES CHEM 312/3.0 and CHEM 223/3.0.

CHEM 421/3.0  Advanced Methods in Physical Chemistry  3L
Modern spectroscopic methods for the structural and electronic characterisation of molecules will be discussed, including: NMR, X-ray and synchrotron-based spectroscopies, laser spectroscopy, surface spectroscopic methods and scanning probe methods.
PREREQUISITE CHEM 313/3.0 or PHYS 345/3.0.
COREQUISITE CHEM 322/3.0.

CHEM 422/3.0  Synthetic Organic Chemistry  3L:2T alt. wks.
PREREQUISITE CHEM 311/3.0.

CHEM 423/3.0  Topics in Inorganic and Organometallic Chemistry  3L
An examination of aspects of modern inorganic and organometallic chemistry. Topics will include metal-ligand bonding in organometallic complexes, applications of organometallics in organic synthesis, metal-metal bonding in dinuclear and polynuclear metal complexes, and may include reaction mechanisms of transition metal complexes, bioinorganic chemistry, and symmetry.
PREREQUISITE CHEM 312/3.0.

CHEM 424/3.0  Polymer Chemistry  3L
Specific properties of polymers (glass transition, crystallinity, polydispersity, etc.) and their dependence on macromolecular structure and isomerism. Polymer synthesis overview: step and chain polymerization (free-radical, ionic and insertion mechanisms) and reactions on polymers. Examples of polymers and their uses.
PREREQUISITE CHEM 223/3.

CHEM 425/3.0  Self-Assembly and Materials  3L
Four topics covering a range of self-assembled molecular systems will be discussed: monolayers and bilayers, block co-polymers, nanoparticles, and liquid crystals. Material properties, synthetic methods and application of these systems in current and emerging technologies, including nanotechnologies, will be covered.
PREREQUISITES CHEM 221/3.0 and CHEM 223/3.0.
CHEM 497/6.0  
**Research Project**  
A full-year research project on a topic in chemistry, supervised by a member of staff. Normally limited to students in the final year of a major or subject of specialization concentration in Chemistry; where appropriate, students in a Chemistry Medial program may take the course with permission of the Department. May be taken in the Spring Term with permission. Additional restrictions may apply.  
**EXCLUSION** No more than 6.0 units from CHEM 497/6.0; CHEM 498/3.0; CHEM 499/3.0.

CHEM 498/3.0  
**Research Project I**  
A Fall Term research project on a topic in chemistry, supervised by a member of staff. Normally limited to students in the final year of a major or subject of specialization concentration in Chemistry; where appropriate, students in a Chemistry Medial program may take the course with permission of the Department. Additional restrictions may apply.  
**EXCLUSION** No more than 6.0 units from CHEM 497/6.0; CHEM 498/3.0; CHEM 499/3.0.

CHEM 499/3.0  
**Research Project II**  
A Winter Term research project on a topic in chemistry, supervised by a member of staff. Normally limited to students in the final year of a major or subject of specialization concentration in Chemistry; where appropriate, students in a Chemistry Medial program may take the course with permission of the Department. Additional restrictions may apply.  
**EXCLUSION** No more than 6.0 units from CHEM 497/6.0; CHEM 498/3.0; CHEM 499/3.0.
CHIN 100/6.0  Introductory Mandarin Chinese I  3L;1T
For students with no previous knowledge of Chinese. Students familiar with Cantonese or Mandarin will not be permitted to enrol. Introduction to the basic structural patterns and functional usage of the language including an emphasis on oral communication (both listening and speaking), reading and writing basic Chinese characters, as well as Chinese culture.
NOTE    Students will have their level of competence assessed by the instructor during orientation week in September.
PREREQUISITE    Level 1 or (Level 2 or above and a GPA of 1.90).

CHIN 200/6.0  Introductory Mandarin Chinese II  3L;1T
For students with some knowledge of Cantonese who wish to acquire a command of Mandarin or for students with some knowledge of Mandarin who want to improve their Chinese language skills. Continued study of basic structural patterns of the language with the emphasis on oral communication, reading and writing using the simplified forms of Chinese characters.
NOTE    Students will have their level of competence assessed by the instructor during orientation week in September.
PREREQUISITE    CHIN 100/6.0 and permission of the Department of Languages, Literatures and Cultures.

CHIN 300/6.0  Intermediate Mandarin Chinese  3L;1T
Continuing study of the functional usage of Mandarin Chinese with intensive training in listening, speaking, reading and writing using the simplified forms of Chinese characters.
NOTE    Students will have their level of competence assessed by the instructor during orientation week in September.
PREREQUISITE    CHIN 200/6.0 and permission of the Department of Languages, Literatures and Cultures.
CISC P81/3.0  Computers: Applications and Implications  2L;1P
Computers are changing our lives; this is a course for any student interested in learning about computing. It surveys
many fields of computing science, presents case studies of fascinating examples of computers in use in diverse
areas, from searching the world-wide web to medicine, and discusses the possibilities, limitations, and risks of
computers.
ONE-WAY EXCLUSION: May not be taken with or after: CISC 124/3.0

CISC P82/3.0  Fundamentals of Web Applications  3L
This course surveys current best practices for implementing attractive, usable, secure and maintainable web
applications. Other issues considered include: accessibility, platform and browser independence, licensing of
intellectual property, scalability, and user privacy. This course is suitable for any student with some programming
experience.
PREREQUISITE  CISC 101/3.0 or CISC 110/3.0.
COREQUISITE  CISC 121/3.0.

CISC 101/3.0  Elements of Computing Science  3L;3P
Introduction to algorithms: their definition, design, coding, and execution on computers. Intended for students who
have no programming experience. All or most assignment work will be completed during lab time.
EXCLUSION  No more than 3.0 units from CISC 101/3.0; CISC 110/3.0.
ONE-WAY EXCLUSION  May not be taken with or after: CISC 121/3.0; CISC; SOFT at the 200-level and above.

CISC 110/3.0  Elementary Computer Animation  3L;3P
Introduction to tools and techniques for creating 2D computer animations. Introduction to animation software (e.g.,
Flash) and scripting languages (e.g., ActionScript). Involves a project in the student’s area of interest, such as fine
art, education, or commerce.
NOTE  No computing or art background required.
NOTE  Sufficient preparation for CISC 121.
EXCLUSION  No more than 3.0 units from CISC 101/3.0; CISC 110/3.0.
ONE-WAY EXCLUSION  May not be taken with or after: CISC 121/3.0.

CISC 121/3.0  Introduction to Computing Science I  3L
Introduction to design and analysis of algorithms. Recursion, backtracking, and exits. Sequences, linked lists and
references. Binary search trees. Elementary searching and sorting. Assertions and loop invariants. Order-of-
RECOMMENDATION  Some programming experience (such as high-school level programming or CISC 101/3.0
or CISC 110/3.0); see Introductory Courses in Departmental Notes.
COREQUISITE  MATH 111/6.0 or MATH 121/6.0 or MATH 122/6.0 or MATH 110/6.0 or MATH 112/3.0 or
MATH 120/6.0 or MATH 123/3.0 or MATH 124/3.0 or MATH 126/6.0.

CISC 124/3.0  Introduction to Computing Science II  3L;2T
Introduction to object-oriented design, architecture, and programming. Use of packages, class libraries, and
interfaces. Encapsulation and representational abstraction. Inheritance. Polymorphic programming. Exception
handling. Iterators. Introduction to a class design notation. Applications in various areas.
PREREQUISITE  CISC 121/3.0.
COREQUISITE  MATH 111/6.0 or MATH 121/6.0 or MATH 122/6.0 or MATH 110/6.0 or MATH 112/3.0 or
MATH 120/6.0 or MATH 123/3.0 or MATH 124/3.0 or MATH 126/6.0.

CISC 203/3.0  Discrete Mathematics for Computing Science  3L
Introduction to mathematical discourse and proof methods. Sets, functions, sequences, and relations. Properties of
the integers. Introduction to graph theory. Introduction to combinatorics.
COREQUISITE  CISC 121/3.0.

CISC 204/3.0  Logic for Computing Science  3L
Elements of mathematical logic with computing applications. Formal proof systems for propositional and predicate
logic. Interpretations, validity, and satisfiability. Introduction to soundness, completeness and decidability.
PREREQUISITE  CISC 203/3.0.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Co-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CISC 223/3.0</strong></td>
<td>Software Specifications</td>
<td>3L</td>
<td>Introduction to techniques for specifying the behaviour of software, with applications of these techniques to design, verification and construction of software. Logic-based techniques such as loop invariants and class invariants. Automata and grammar-based techniques, with applications to scanners, parsers, user-interface dialogs and embedded systems. Computability issues in software specifications. PREREQUISITE CISC 124/3.0. COREQUISITE CISC 204/3.0.</td>
</tr>
<tr>
<td><strong>CISC 226/3.0</strong></td>
<td>Game Design</td>
<td>3L</td>
<td>An introduction to techniques for designing elementary computer games. Topics will include game development tools and processes, principles of game design, game prototyping and game evaluation. PREREQUISITE CISC 124/3.0.</td>
</tr>
<tr>
<td><strong>CISC 235/3.0</strong></td>
<td>Data Structures</td>
<td>3L;2P</td>
<td>Design and implementation of advanced data structures and related algorithms, including correctness and complexity analysis. PREREQUISITES CISC 124/3.0 and CISC 203/3.0.</td>
</tr>
<tr>
<td><strong>CISC 260/3.0</strong></td>
<td>Programming Paradigms</td>
<td>3L</td>
<td>Review of imperative programming features. Introduction to other widely used programming paradigms. Functional programming languages, such as LISP and Haskell. Higher order functions, lazy evaluation, abstract and recursive types, structural induction, symbolic expressions. Logic programming languages, such as PROLOG. Operational interpretation of predicates and terms, proof search, unification, backtracking. Typical applications. PREREQUISITE CISC 124/3.0. COREQUISITE CISC 204/3.0.</td>
</tr>
<tr>
<td><strong>CISC 271/3.0</strong></td>
<td>Scientific Computing</td>
<td>3L</td>
<td>Introduction to scientific computing: floating point arithmetic, algorithm design, error analysis, ill-conditioning. Zero-finding. Linear equations. Interpolation. Integration. Least-squares fitting. Effective use of library programs, with discussion of their limitations and some aspects of their design and implementation. PREREQUISITES (CISC 101/3.0 or CISC 121/3.0) and MATH 111 and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or [MATH 123/3.0 and MATH 124/3.0] or MATH 126/6.0). EXCLUSION No more than 3.0 units from CISC 271/3.0; MATH 272/3.0; PHYS 313/3.0.</td>
</tr>
<tr>
<td><strong>CISC 320/3.0</strong></td>
<td>Fundamentals of Software Development</td>
<td>3L;2P</td>
<td>Introduction to management of small and medium-scale software projects. Advanced programming methodology using the programming language C++. Includes a significant programming project. PREREQUISITES CISC 220/3.0 and CISC 235/3.0.</td>
</tr>
<tr>
<td><strong>CISC 322/3.0</strong></td>
<td>Software Architecture</td>
<td>3L;2P</td>
<td>Abstractions and patterns of interactions and relationships among modules. Design recovery; relationship of architecture to requirements and testing. PREREQUISITES CISC 203/3.0 and CISC 204/3.0 and CISC 223/3.0 and CISC 235/3.0.</td>
</tr>
</tbody>
</table>
CISC 324/3.0  Operating Systems  3L
PREREQUISITES  CISC 221/3.0 and CISC 235/3.0.

CISC 325/3.0  Human-Computer Interaction  3L
Developing usable software requires that human factors be considered throughout the design and development process. This course introduces a series of techniques for development and evaluating usable software, and shows how these techniques can be integrated into a process for software development.
PREREQUISITES  CISC 124/3.0 and CISC 235/3.0.
EXCLUSION  No more than 3.0 units from CISC 325/3.0; SOFT 325/3.0.

CISC 326/3.0  Game Architecture  3L
An introduction to software architectural design through the application domain of game development. Topics will include notations for expressing static and dynamic aspects of software architecture, design patterns, interface design, and application of these techniques to 3D games, mobile games and web-based games.
RECOMMENDATION  CISC 226/3.0
PREREQUISITES  CISC 220/3.0 and CISC 235/3.0.
EXCLUSION  No more than 3.0 units from CISC 322/3.0 and CISC 326/3.0.

CISC 327/3.0  Software Quality Assurance  3L
Validation of software throughout the life cycle. Comparative effectiveness in defect removal of formal methods (proofs of correctness), inspection (walkthroughs and reviews), and testing (unit, integration, and system testing; white box versus black box).
PREREQUISITES  CISC 203/3.0 and CISC 204/3.0 and CISC 220/3.0 and CISC 223/3.0.
EXCLUSION  No more than 3.0 units from CISC 327/3.0; SOFT 327/3.0.

CISC 330/3.0  Computer-Integrated Surgery  3L
Concepts of computer-integrated surgery systems and underlying techniques such as medical-image computing, robotics, and virtual reality, learned through real-life applications and problems. Techniques learned in class will be applied in a hands-on surgery session where students perform minimally invasive surgery with virtual-reality navigation tools.
PREREQUISITES  CISC 121/3.0 and (CISC 271/3.0 or MATH 272/3.0).
EQUIVALENCY  COMP 230/3.0

CISC 332/3.0  Database Management Systems  3L
PREREQUISITES  CISC 124/3.0 and CISC 204/3.0.
EXCLUSION  No more than 3.0 units from CISC 332/3.0; COMM 392/3.0.

CISC 333/3.0  Introduction to Data Mining  3L
PREREQUISITES  CISC 121/3.0 and CISC 203/3.0 and 3.0 units from STAT and MATH 111/6.0; MATH 110/6.0; MATH 112/3.0.

CISC 340/3.0  Digital Systems  3L
Combinational circuits; sequential circuits; digital systems design; micro-programming; bus structures; data communications; interface design; microprocessor systems.
PREREQUISITE  CISC 221/3.0.
<table>
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</thead>
<tbody>
<tr>
<td>CISC 352/3.0</td>
<td>Artificial Intelligence</td>
<td>3L</td>
<td>An introduction to the basic principles and tools of artificial intelligence. Problem solving methods and knowledge representation techniques. PREREQUISITES CISC 235/3.0 and CISC 260/3.0.</td>
</tr>
<tr>
<td>CISC 365/3.0</td>
<td>Algorithms I</td>
<td>3L;2P</td>
<td>Principles of design, analysis and implementation of efficient algorithms. Case studies from a variety of areas illustrate divide and conquer methods, the greedy approach, branch and bound algorithms and dynamic programming. PREREQUISITES CISC 203/3.0 and CISC 204/3.0 and CISC 235/3.0.</td>
</tr>
<tr>
<td>CISC 422/3.0</td>
<td>Formal Methods in Software Engineering</td>
<td>3L</td>
<td>Mathematical methods for describing software behaviour and structure. Topics include (but are not limited to) the following: Requirements specification. Module specification: axiomatic, algebraic, and trace specifications. Abstract models. Verification. Specification-based validation. PREREQUISITE CISC 327/3.0.</td>
</tr>
<tr>
<td>CISC 423/3.0</td>
<td>Software Requirements</td>
<td>3L</td>
<td>An integrated approach to discovering and documenting software requirements. Identification of stakeholders; customer, operator, analyst, and developer perspectives. Requirements elicitation. Transition from initial (informal) requirements to semi-formal and formal representations. Requirements analysis process; analysis patterns. Requirements specification techniques. Relation to architecture and user interface design; traceability of requirements. PREREQUISITES (CISC 322/3.0 or CISC 326/3.0) and CISC 325/3.0. EXCLUSION No more than 3.0 units from CISC 423/3.0; SOFT 423/3.0.</td>
</tr>
<tr>
<td>CISC 425/3.0</td>
<td>Advanced User Interface Design</td>
<td>3L</td>
<td>Advanced user-interface styles such as eye-tracking input, digital desks, wearable computing, ubiquitous and context-aware computing, and tangible interfaces. PREREQUISITE CISC 325/3.0 or permission of the School. EXCLUSION No more than 3.0 units from CISC 425/3.0; SOFT 425/3.0.</td>
</tr>
<tr>
<td>CISC 426/3.0</td>
<td>Real-Time Systems</td>
<td>3L;1T alt.wks.</td>
<td>Design and implementation of real-time embedded applications. Specifying timing properties: formal and semi-formal methods; soft real-time versus hard real-time. Design notations; language constructs. Real-time operating systems. Abstract device interfaces. PREREQUISITES CISC 324/3.0 and CISC 327/3.0. EXCLUSION No more than 3.0 units from CISC 425/3.0; SOFT 425/3.0.</td>
</tr>
<tr>
<td>CISC 432/3.0</td>
<td>Advanced Database Systems</td>
<td>3L</td>
<td>Topics include the presentation and storage of data, implementation concerns, and the integration of databases with other areas of computer science. PREREQUISITES CISC 235/3.0 and CISC 332/3.0.</td>
</tr>
</tbody>
</table>
CISC 435/3.0  Computer Communications and Networks  3L
Fundamental concepts in the design and implementation of computer communication networks, protocols, and applications. Overview of network architectures; applications; network programming interfaces (e.g., sockets); transport; congestion; routing and data link protocols; addressing; local area networks; wireless networks, mobility management; security.
RECOMMENDATION CISC 340/3.0.
PREREQUISITE CISC 324/3.0.

CISC 437/3.0  Performance Analysis  3L
PREREQUISITES CISC 324/3.0 and CISC 327/3.0.
EXCLUSION No more than 3.0 units from CISC 437/3.0; SOFT 437/3.0.

CISC 452/3.0  Neural and Genetic Computing  3L
Introduction to neural and genetic computing. Topics include associative memory systems, neural optimization strategies, supervised and unsupervised classification networks, genetic algorithms, genetic and evolutionary programming. Applications are examined, and the relation to biologic systems is discussed.
PREREQUISITE CISC 352/3.0, or permission of the instructor.
EXCLUSION No more than 3.0 units from COGS 400/3.0; CISC 452/3.0.

CISC 453/3.0  Topics in Artificial Intelligence  3L
Investigation of selected areas of artificial intelligence research. Possible topics include natural language understanding, computational perception, planning, learning, and neurocomputing.
PREREQUISITE CISC 352/3.0.

CISC 454/3.0  Computer Graphics  3L
Introduction to computer graphics, including a review of current hardware; modelling and transformations in two and three dimensions; visual realism: perspective, hidden surface elimination, and shading; colour models; applications in several fields.
PREREQUISITES Level 3 or 4 and CISC 235/3.0 and (MATH 110/6.0 or MATH 111/6.0 or MATH 112/3.0).

CISC 457/3.0  Image Processing and Computer Vision  3L
Introduction to fundamental concepts and applications in image processing and computer vision. Topics include image acquisition, convolution, Discrete Fourier Transform, image enhancement, edge detection, segmentation, image registration, human contrast perception, colour perception and reproduction, stereo vision.
PREREQUISITES (MATH 110/6.0 or MATH 111/6.0 or MATH 112/3.0) and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or MATH 123/3.0 or MATH 124/3.0 or MATH 126/6.0) and CISC 124/3.0.

CISC 458/3.0  Programming Language Processors  3L;2P
Introduction to the systematic construction of a compiler: grammars and languages, scanners, top-down and bottom-up parsing, runtime organization, symbol tables, internal representations; Polish notation, syntax trees, semantic routines, storage allocation, code generation, interpreters.
PREREQUISITES CISC 121/3.0 and CISC 221/3.0 and CISC 223/3.0.

CISC 462/3.0  Computability and Complexity  3L
RECOMMENDATION CISC 365/3.0.
PREREQUISITES CISC 223/3.0.
CISC 465/3.0  Foundations of Programming Languages  3L
Syntax and semantics. Classification of programming languages. The language of while programs. The typed lambda calculus. Recursive definitions and domain theory.
PREREQUISITES  CISC 204/3.0 and CISC 223/3.0 and CISC 260/3.0.

CISC 466/3.0  Algorithms II  3L
PREREQUISITE  CISC 365/3.0.

CISC 471/3.0  Computational Biology  3L;2P
Advanced computational approaches to the problems in molecular biology. Techniques and algorithms for sequence analysis and alignment; molecular databases; protein structure prediction and molecular data mining.
PREREQUISITES  CISC 271/3.0, CISC 352/3.0, MBIO 218/3.0 or BIOL 334/3.0 or BCHM 315/3.0.

CISC 472/3.0  Medical Informatics  3L
Current topics in the application of information technology to medicine, including computed tomography and x-ray imaging; 2D and 3D ultrasound; computer-assisted planning of interventional procedures; image registration; computer-assisted surgery; bioelectric signals; picture archiving and communication systems (PACS).
RECOMMENDATION  PHGY 214/6.0.
PREREQUISITES  (CISC 271/3.0 or MATH 272/3.0) and CISC 330/3.0 (2011-12) and CISC 365/3.0.

CISC 481/3.0  Syntax Systems for Natural Language  3S
Chomsky grammars, including context-free languages; algorithms for natural language processing. Content will vary from year to year, but may include lexical-functional grammars, ambiguity resolution, parsing algorithms, grammatical inference, Lindenmeyer grammars and grammars for multi-dimensional objects. Students will present seminars.
PREREQUISITE  Permission of the School.

CISC 490/3.0  Topics in Computing Science I  3S/L
Content varies. Not offered every year.
PREREQUISITE  Permission of the instructor.
EXCLUSION  No more than 3.0 units from CISC 470/3.0; CISC 490/3.0 (2005/06 - 2009/10).

CISC 491/3.0  Topics in Computing Science II  3S/L
Content varies. Not offered every year.
PREREQUISITE  Permission of the instructor.
EXCLUSION  No more than 3.0 units from CISC 470/3.0; CISC 490/3.0 (2005/06 - 2009/10).

CISC 497/3.0  Social, Ethical and Legal Issues in Computing  3S
A wide range of topics of current importance in computing, including technical issues, professional questions, and moral and ethical decisions. Students make presentations, deliver papers, and engage in discussion.
PREREQUISITE  Level 4 and registered in a COMP Major or BMCO or COCA or COGS or CSCI or SODE Specialization Plan and (CISC 365/3.0 or COGS 300/3.0).

CISC 498/6.0  Information Technology Project  
Topic selected under the supervision of a faculty member. Emphasis is on the application of software engineering techniques to the development of a substantial software system. Group work, oral presentation, participation in design and code review meetings, and delivery of complete software specification and design are required.
PREREQUISITES  Level 4 and registered in a SODE Specialization Plan and (an overall GPA of 1.90 and (a GPA of 2.60 from 30.0 units in CISC) and (CISC 322/3.0 or CISC 326/3.0) and (CISC 325/3.0 or CISC 327/3.0 or SOFT 325/3.0 or SOFT 327/3.0).
EXCLUSION  No more than 6.0 units from CISC 498/6.0; CISC 499/3.0.
CISC 499/3.0  Advanced Undergraduate Project
Topic selected under the supervision of a faculty member. Emphasis may be on the development of a large program, or on more theoretical issues. Independent research, an oral presentation, and a written report are required.
PREREQUISITE  Level 4 and registered in a COMP Major or BMCO or CSCI Specialization Plan) and (an overall GPA of 1.90) and (a GPA of 2.60 from 30.0 units in CISC) and CISC 365/3.0.
EXCLUSION  No more than 6.0 units from CISC 498/6.0; CISC 499/3.0.
CLST 100/6.0   Introduction to Classical Literature 3L
Ancient Greek and Roman literature in translation: Homer’s *Iliad* and *Odyssey* and Greek drama; Vergil’s *Aeneid* and selections from other Latin authors. Reference to ancient customs, history, mythology, thought.

CLST 101/6.0   Introduction to Greek and Roman Civilization 3L
An introduction to major themes in the development of Greek and Roman civilization using the evidence of literature, history and archaeology. Some attention will be given to those aspects of ancient cultural and intellectual growth that are of significance in the western tradition.

CLST 129/6.0   Introduction to Archaeology 3L
Development of the discipline, methods of discovering and recovering materials through excavation, evaluation of such materials and reconstruction of original environments. Historic and prehistoric sites; contribution of archaeology to the knowledge of the past.

CLST 200/3.0   Greek History 3L
Survey of the Greek World from the Late Bronze Age to the death of Cleopatra. Social, religious and political developments among the major powers, Athens, Sparta and Hellenistic kingdoms.
NOTE  Students cannot register concurrently with CLST 101/6.0.
PREREQUISITE  Level 2 or above.

CLST 201/3.0   Roman History 3L
Survey of the basic social and political developments in Rome from kingdom to republic to empire.
NOTE  Students cannot register concurrently with CLST 101/6.0.
PREREQUISITE  Level 2 or above.

CLST 203/3.0   Myth and Religion 3L
Greek concepts of the supernatural and humanity’s relationship to it. The basic myths, official and secret creeds, meaning and social function of myth and ritual.
PREREQUISITE  Level 2 or above.

CLST 205/3.0   Ancient Humour 3L
The techniques by which humour was created in literature and the visual arts in antiquity; social and psychological aspects of humour.
PREREQUISITE  Level 2 or above.

CLST 206/3.0   Roman Britain 3L
From the expeditions of Julius Caesar (55 B.C.) to the end of Roman rule (411 A.D.). The Romans in towns, villas and military camps and the Celtic majority.
NOTE  Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITE  Level 2 or above.

CLST 207/3.0   The Ancient Near East 3L
Introduction to the civilizations of Mesopotamia, Syro-Palestine, Egypt and Anatolia from the Bronze Age to the Greek conquest. Artistic, intellectual, social and political history.
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE  Level 2 or above.
EXCLUSION  No more than 3.0 units from CLST 207/3.0; CLST 208/3.0.

CLST 208/3.0   The Levant from the Late Bronze Age to the Coming of Rome 3L
Social, cultural, and political history of the eastern mediterranean littoral from the 15th to the 1st centuries BCE; particular emphasis on the problems of the early Jewish state.
NOTE  Offered also as a Cognate course in the Program in Jewish Studies.
PREREQUISITE  Level 2 or above.
EXCLUSION  No more than 3.0 units from CLST 207/3.0; CLST 208/3.0.
CLST 214/3.0  Ancient Science  3L
Ancient concepts of nature and of natural phenomena: what did the ancients (e.g. Babylonians and Greeks) know about the natural world and how did they come to know it?
PREREQUISITE  Level 2 or above.

CLST 303/3.0  Archaeology of Early Greece  3L
Study of the remains from the Bronze Age to the end of the Archaic period. Emphasis on the revival of architecture, painting and sculpture.
PREREQUISITE  CLST 101/6.0 or CLST 129/6.0 or CLST 200/3.0 or CLST 207/3.0, or permission of the Department.

CLST 304/3.0  Archaeology of the Classical World and Hellenistic Period  3L
Intensive study of the achievements in architecture, painting and sculpture, and town planning from 480 B.C. to 31 B.C.
PREREQUISITE  CLST 101/6.0 or CLST 129/6.0 or CLST 200/3.0, or permission of the Department.

CLST 305/3.0  Archaeology of the Etruscans and Early Romans  3L
This survey of the material remains of early Italy will focus on the early Iron Age, Etruscan, and Roman (Regal and Republican) cultures. Each culture’s art, architecture, urban patterns, and burial practices will be investigated in terms of the changing political and social conditions affecting those societies.
PREREQUISITE  CLST 101/6.0 or CLST 129/6.0 or CLST 201/3.0, or permission of the Department.

CLST 306/3.0  Archaeology of the Roman Empire  3L
A survey of Roman material culture (art, architecture and artifacts) from the reign of Augustus to that of Constantine. An emphasis will be placed on analyzing Roman architecture, sculpture, urban patterns, and objects of daily life in order to better understand the political messages and social experiences of Romans during the Imperial period.
PREREQUISITE  CLST 101/6.0 or CLST 129/6.0 or CLST 201/3.0, or permission of the Department.

CLST 311/3.0  Greek and Roman Epic  3L/S
PREREQUISITE  CLST 100/6.0 or CLST 101/6.0, or permission of the Department.

CLST 312/3.0  Greek and Roman Drama  3L/S
Intensive study (in translation) of representative works from the ancient theatre, both tragic (Aeschylus, Sophocles, Euripides, Seneca) and comic (Aristophanes, Menander, Plautus, Terence). Comparative study of English drama of the classical tradition encouraged.
PREREQUISITE  CLST 100/6.0 or CLST 101/6.0 or DRAM 210/6.0 or permission of the Department.

CLST 314/3.0  Doctor, Bloodletter, Surgeon: The Beginnings of Western Medicine  3L
A study of how the human body is viewed in ancient medical theory and practice. Readings of ancient medical texts will explore how the human body is constituted, how it relates to the world, what the role of the physician was seen to be in prevention and treatment of disease, and how illness and healing were understood in ancient Greece and Rome.
PREREQUISITE  CLST 200/3.0 or CLST 201/3.0 or CLST 207/3.0 or CLST 208/3.0.

CLST 321/3.0  World of Late Antiquity  3L/S
Study of the rise of Christianity and the Christian reception of classical culture.
PREREQUISITES  CLST 201/3.0 and registration in a CLST or HIST plan.

CLST 330/3.0  Classical Greek Culture and Society  3L/S
Issues in the history of 5th and 4th century B.C. Family, private life and public ideology; religious beliefs, war, power.
PREREQUISITE  CLST 200/3.0, or permission of the Department.
CLST 331/3.0  Hellenistic Culture and Society  3L/S
Issues in the period from Alexander to Actium. Alexander, imperialism; cities and communities; multi-culturalism, displacement and private life.
PREREQUISITE  CLST 200/3.0, or permission of the Department.

CLST 340/3.0  The Roman Republic  3L/S
Emergence of Early Rome and the social and political growth of the Republic.
PREREQUISITE  CLST 201/3.0, or permission of the Department.

CLST 341/3.0  The Roman Empire  3L/S
Intensive study of the Empire to the reign of Marcus Aurelius. Politics of the imperial courts: administration and Romanization of the provinces.
PREREQUISITE  CLST 201/3.0, or permission of the Department.

CLST 343/3.0  The Later Roman Empire  3L
Intensive study of the Later Roman Empire from the reign of Septimius Severus to the death of Theodosius I (395 CE). Topics include the Severan dynasty, the crisis of the Third Century, the Tetrarchy, and the christianization of the Roman empire.
PREREQUISITE  CLST 201/3.0, or permission of the Department.

CLST 404/3.0  The Topography of Athens  3L/S
The growth of Athens from the Neolithic period to Late Antiquity. Emphasis on social and political developments and personal aspirations which determine the cityscape.
PREREQUISITE  CLST 303/3.0 or CLST 304/3.0 or CLST 330/3.0 or CLST 331/3.0, or permission of the Department.

CLST 405/3.0  The Topography of Rome  3L/S
The growth of Rome from the foundation to Late Antiquity based on archaeological evidence. Emphasis on developments during its classical period.
PREREQUISITE  CLST 305/3.0 or CLST 306/3.0 or CLST 340/3.0 or CLST 341/3.0, or permission of the Department.

CLST 408/6.0  Archaeology Fieldwork Practicum I
An intensive six-week introduction to archaeological methods and interpretation during participation in a fieldwork project run by a member of the Classics Department. In addition to tuition, students are required to pay for their own transportation to the archaeological site and to pay a camp fee.
NOTE  Offered in Spring-Summer Session.
PREREQUISITE  Level 2, or permission of the Department.

CLST 409/6.0  Archaeology Fieldwork Practicum II
An intensive six-week introduction to archaeological methods and interpretation at a fieldwork project in Italy under the supervision of a member of the Classics Department. In addition to tuition, students are expected to pay their own travel and accommodation costs.
NOTE  Offered in Spring-Summer Session or Spring Term or Summer Term.
PREREQUISITES  (CLST 303/3.0 or CLST 304/3.0 or CLST 305/3.0 or CLST 306/3.0) and Level 2, or permission of the Department.

CLST 410/3.0  Topics in Greek Scholarship I  3S
Intensive study of a special topic, period, or author(s) in the Greek world.

CLST 411/3.0  Topics in Greek Scholarship II  3S
Intensive study of a special topic, period, or author(s) in the Greek world.

CLST 420/3.0  Topics in Latin/Roman Scholarship I  3S
Intensive study of a special topic, period, or author(s) in the world of Rome. For information contact the Department.
CLST 421/3.0  Topics in Latin/Roman Scholarship II  3S
Intensive study of a special topic, period, or author(s) in the world of Rome. For information contact the Department.

CLST 430/6.0  Special Research Course
Detailed study of certain aspects of Greek and Roman literature, history or philosophy through directed readings and essay assignments. A short thesis may be required.
PREREQUISITE  Permission of the Department.

CLST 431/6.0  Special Research Course
Detailed study of certain aspects of Greek and Roman literature, history or philosophy through directed readings and essay assignments. A short thesis may be required.
PREREQUISITE  Permission of the Department.
COCA 201/3.0  Introduction to Computing and the Creative Arts  1L;2P
PREREQUISITE  6.0 units in ARTF or ARTH or DRAM or FILM or MUSC at the 100-level.
COREQUISITE  CISC 101/3.0 or CISC 110/3.0 or CISC 121/3.0, or permission of the School of Computing.
COGS 100/3.0  Introduction to Cognitive Science  3L
An introduction to the historical and contemporary issues, and research findings of the core cognitive science disciplines including artificial intelligence, linguistics, philosophy, and psychology. The emphasis will be on the ways that the interactions among these disciplines leads to an enhanced understanding of the processes of intelligence and intelligent systems.

*NOTE*  Also offered as a distance course. Consult Continuing and Distance Studies.

ONE-WAY EXCLUSION  May not be taken with or after CISC 352/3.0; PSYC 200/6.0.

COGS 201/3.0  Cognition and Computation  3L;1T
An introduction to the role of computation in theories of the mind and thought. Surveys the major models developed to account for various specific aspects of human cognitive processes. Unitary models of cognitive processes are also examined.

PREREQUISITES  PSYC 221/3.0 or COGS 100/3.0

EXCLUSION  No more than 6.0 units from COGS 200/6.0; COGS 201/3.0; PSYC 220/6.0.

COGS 300/3.0  Programming Cognitive Models  3L;1T
Systems and techniques for developing computational models of human cognitive processes. Symbolic artificial-intelligence and neural-network approaches. Students will become familiar with the programming language LISP, and use it in implementing some aspects of cognitive models.

PREREQUISITES  (COGS 201/3.0 or COGS 200/6.0 or PSYC 220/6.0) and CISC 352/3.0, or permission of the School.

COGS 400/3.0  Neural and Genetic Cognitive Models  3L
Neural and genetic computational techniques, along with models of human cognition, perception, and memory built on these methods. Problem-solving techniques that have arisen from neural and genetic computation are also studied, including optimization, classification, and data reduction.

PREREQUISITE  COGS 300/3.0.

EXCLUSION  No more than 3.0 units from COGS 400/3.0; CISC 452/3.0.

COGS 499/3.0  Advanced Undergraduate Project  1.5L
Topic selected under the supervision of a member of one of the faculties of CISC, LING, PHIL, PSYC. Emphasis may be on experimental, theoretical, or computer implementation topics. Independent research, an oral presentation, and a written report are required.

PREREQUISITE  (Level 4 and registered in a COGS Specialization Plan) and (an overall GPA of 1.90) and (a GPA of 2.60 from 30.0 units in CISC) and (a GPA of 2.60 in COGS) and COGS 300/3.0.
COMP 329/3.0  
Introduction to Computer-Integrated Surgery  
3L
An introduction to concepts and novel technologies used in computer-integrated surgery, including image based navigation, medical robotics and virtual reality. Concepts and techniques learned in class will be applied in a hands-on surgery session where students perform minimally invasive surgery with virtual-reality navigation tools.
NOTE  MATH P06/3.0 or one Mathematics 4U level course is required.
PREREQUISITE  Level 2 or above.
ONE-WAY EXCLUSION: May not be taken with or after CISC 330/3.0 (formerly COMP 230/3.0).

COMP 390/6.0  
Computing Internship I
A Computing Internship involves spending twelve to sixteen months in a paid internship position in the private or public sectors. Students in a 12-month internship register in COMP 390/6.0 and either COMP 391/3.0 or COMP 392/3.0, or all of COMP 393/3.0, COMP 391/3.0 and COMP 392/3.0. Students in a 16-month internship register in COMP 390/6.0, COMP 391/3.0 and COMP 392/3.0. The Internship Coordinator must be satisfied that the work carried out has educational merit. Successful completion of the course requires submission of a satisfactory report on the experience within thirty days of completion of the work period. The Internship Coordinator is responsible for evaluating the report. The QUIP program includes prior workshops on interviewing, resumé preparation and work performance. Career Services manages the non-academic aspects of the program.
PREREQUISITE  GPA of 1.90 and Level 3 and registration in the Bachelor of Computing (Honours) Program and permission of the Chair of Undergraduate Studies.

COMP 391/3.0  
Computing Internship II
A Computing Internship involves spending twelve to sixteen months in a paid internship position in the private or public sectors. Students in a 12-month internship register in COMP 390/6.0 and either COMP 391/3.0 or COMP 392/3.0, or all of COMP 393/3.0, COMP 391/3.0 and COMP 392/3.0. Students in a 16-month internship register in COMP 390/6.0, COMP 391/3.0 and COMP 392/3.0. The Internship Coordinator must be satisfied that the work carried out has educational merit. Successful completion of the course requires submission of a satisfactory report on the experience within thirty days of completion of the work period. The Internship Coordinator is responsible for evaluating the report. The QUIP program includes prior workshops on interviewing, resumé preparation and work performance. Career Services manages the non-academic aspects of the program.
COREQUISITE  COMP 390/6.0 or COMP 393/3.0.

COMP 392/3.0  
Computing Internship III
A Computing Internship involves spending twelve to sixteen months in a paid internship position in the private or public sectors. Students in a 12-month internship register in COMP 390/6.0 and either COMP 391/3.0 or COMP 392/3.0, or all of COMP 393/3.0, COMP 391/3.0 and COMP 392/3.0. Students in a 16-month internship register in COMP 390/6.0, COMP 391/3.0 and COMP 392/3.0. The Internship Coordinator must be satisfied that the work carried out has educational merit. Successful completion of the course requires submission of a satisfactory report on the experience within thirty days of completion of the work period. The Internship Coordinator is responsible for evaluating the report. The QUIP program includes prior workshops on interviewing, resumé preparation and work performance. Career Services manages the non-academic aspects of the program.
COREQUISITE  COMP 390/6.0 or COMP 393/3.0.

COMP 393/3.0  
Computing Internship IV
A Computing Internship involves spending twelve to sixteen months in a paid internship position in the private or public sectors. Students in a 12-month internship register in COMP 390/6.0 and either COMP 391/3.0 or COMP 392/3.0, or all of COMP 393/3.0, COMP 391/3.0 and COMP 392/3.0. Students in a 16-month internship register in COMP 390/6.0, COMP 391/3.0 and COMP 392/3.0. The Internship Coordinator must be satisfied that the work carried out has educational merit. Successful completion of the course requires submission of a satisfactory report on the experience within thirty days of completion of the work period. The Internship Coordinator is responsible for evaluating the report. The QUIP program includes prior workshops on interviewing, resumé preparation and work performance. Career Services manages the non-academic aspects of the program.
PREREQUISITES  GPA of 1.90 and Level 3 and registration in the Bachelor of Computing (Honours) Program and permission of the Chair of Undergraduate Studies.
CRSS 453/3.0  
**Principles in Cardiorespiratory Science I**  
2L;1S  
An advanced organ systems approach to the physiological principles underlying cardiac function and oxygen delivery using lectures, seminars, and selected readings. Topics include mechanics and regulation of heart function as well as perturbations in cardiac function. Oxygen delivery and utilization will be examined at the levels of the lung, blood, and tissue. The responses to alterations in oxygen demand and/or supply will also be addressed. Obstructive sleep apnea will be used as a model of a pathological cardiorespiratory system interactions.  
NOTE Priority given to students in the CRSS Sub-Plan.  
PREREQUISITES (PHGY 212/6.0 or PHGY 214/6.0) and Level 4 and registration in a LISC Major or Specialization Plan and (a GPA of 2.5).

CRSS 456/3.0  
**Molecular and Cellular Basis of Cardiovascular Disease**  
1.5L;1.5S  
An intensive course surveying the molecular and cellular mechanisms underlying the pathophysiology of the major cardiovascular diseases, and the current and emerging tools used in their diagnosis and treatment. Alterations in signalling, metabolism, and structure and function will be discussed to present an integrative view of how cardiovascular diseases develop and progress.  
NOTE Priority given to students in the CRSS Sub-Plan.  
PREREQUISITES (PHGY 212/6.0 or PHGY 214/6.0) and Level 4 and registration in a LISC Major or Specialization Plan and (a GPA of 2.5).

CRSS 498/3.0  
**Cardiorespiratory Rounds**  
1P;2S  
An advanced course in which students attend cardiology and respirology rounds in the Department of Medicine and prepare written and oral reports based on the material presented. The course will provide students with an in-depth exposure to topics in clinical cardiorespiratory science. The course will be offered in alternate years.  
NOTE Priority given to students in the CRSS Sub-Plan.  
PREREQUISITES (PHGY 212/6.0 or PHGY 214/6.0) and Level 4 and registration in a LISC Major or Specialization Plan and (a GPA of 2.5).
CWRI 293/3.0  Creative Writing in Prose  3S
A workshop course focusing on the writing and editing of short fiction, novels, and memoir. Students attempt several different approaches to the writing of creative prose, as well as the process of publication in both magazine and book formats.
NOTE  Admission is based on writing samples.
PREREQUISITE  Permission of the instructor.

CWRI 294/3.0  Creative Writing in Poetry  3S
A workshop course focusing on the writing and editing of poetry. Students attempt several different forms within the poetic genre and complete the course with a formal submission for publication in a magazine. There are lectures on editing, publishing, and public performance.
NOTE  Admission only at the discretion of the instructor following a submission of creative work.
PREREQUISITE  Permission of the instructor.

CWRI 295/3.0  Creative Writing I  3S
A practical examination of creative writing skills, including selected readings and writing workshops, in a range of forms including poetry, short fiction, journalism, and script writing for media such as film, television, theatre, and radio.
NOTE  Admission is based on writing samples.
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE  Permission of the instructor.

CWRI 296/3.0  Creative Writing II  3S
An advanced creative writing workshop, offering practical assistance in writing and a critical response from instructor and peers.
PREREQUISITES  CWRI 293/3.0 or CWRI 294/3.0 or CWRI 295/3.0, and permission of the instructor.
DDHT 459/3.0  Principles of Drug Discovery       1L;2T
Advanced study of the early stage components involved in the complex process of drug development including
target identification, design and synthesis, structure activity relationships, in vitro and in vivo efficacy
determination, biochemical and biological optimization.
NOTE    Priority given to students in the LISC Specialization Plan, DDHT Sub-Plan.
RECOMMENDATION   PHAR 416/3.0.
PREREQUISITE   PHAR 340/3.0 or PHAR 341/3.0 and Level 4 and registration in a LISC Major or Specialization
Plan) and (a GPA of 2.5).

DDHT 460/3.0  Principles of Drug Development       1L;2T
Advanced study of the component parts of the complex process of drug discovery and development and the
assessment of human toxicology including drug delivery and formulation, directed toxicology studies, drug
disposition, clinical trials, legal issues and regulatory approval. NOTE    Priority given to students in the LISC
Specialization Plan, DDHT Sub-Plan.
RECOMMENDATION   PHAR 416/3.0.
PREREQUISITE   DDHT 459/3.0 and Level 4 and registration in a LISC Major or Specialization Plan) and (a GPA
of 2.5).
DEVS 100/6.0  Canada and the "Third World"  2L;1T
Introduces basic theoretical concepts of development studies, the history of global inequality, and short histories of alternative development strategies. Case studies of Canada’s ties to the so-called third world will include missionaries, military, business, and aid. Canadian colonialism over First Nations peoples will introduce basic issues in Aboriginal Studies.
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.

DEVS 220/3.0  Introduction to Aboriginal Studies  3L
An introduction to Aboriginal world view and culture organized on an historical basis, from Creation to 1969, emphasizing Aboriginal culture and experience in Canada. Aboriginal perspectives will be introduced through traditional teaching methods and contributions from elders and other community members.

DEVS 221/3.0  Topics in Aboriginal Studies  3L
Re-evaluation of conventional knowledge based on aboriginal world view and culture and the introduction of a decolonized perspective on contemporary issues. Guest speakers will provide detailed examinations of specific topics such as current issues in Aboriginal spirituality, art, education and politics.
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE  Level 2 or above.

DEVS 230/3.0  The Global Political Economy of Development  2L;1T
Applying global political economy perspectives to key aspects of development finance. Topics include the introduction of basic economic terms, the role of the International Monetary Fund, World Bank, World Trade Organization, and the growing roles of Transnational Corporations and financial markets in development
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE  DEVS 100/6.0 (DEVS 100/6.0 can be taken concurrently in exceptional circumstances).

DEVS 240/3.0  Culture and Development  2L;1T
Provides students with a broad overview of debates relating to development and culture, including issues of religion, music, sport, art and literature, and how these interact with economic policy and political change.
PREREQUISITES  DEVS 100/6.0 and DEVS 230/3.0. (DEVS 100/6.0 can be taken concurrently in exceptional circumstances).

DEVS 292/3.0  Topics in Development Studies I  3L
Lectures and courses offered by regular and visiting faculty on development topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each year.
PREREQUISITE  Level 2 or above and registration in any DEVS Plan, or permission of the Department.

DEVS 293/3.0  Topics in Development Studies II  3L
Lectures and courses offered by regular and visiting faculty on development topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each year.
PREREQUISITE  Level 2 or above and registration in any DEVS Plan, or permission of the Department.

DEVS 294/3.0  Topics in Development Studies III  3L
Lectures and courses offered by regular and visiting faculty on development topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each year.
PREREQUISITE  Level 2 or above and registration in any DEVS Plan, or permission of the Department.

DEVS 295/3.0  Topics in Development Studies IV  3L
Lectures and courses offered by regular and visiting faculty on development topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each year.
PREREQUISITE  Level 2 or above and registration in any DEVS Plan, or permission of the Department.

DEVS 296/3.0  Topics in Development Studies V  3L
Lectures and courses offered by regular and visiting faculty on development topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each year.
PREREQUISITE  Level 2 or above and registration in any DEVS Plan, or permission of the Department.
DEVS 300/3.0  Cross-Cultural Research Methods  2L;1P
A study of practical issues related to development research and program evaluation in development settings, using a case-study approach. Topics include information retrieval, cross-cultural research methods, basic data analysis, and results-based project evaluation.
PREREQUISITES  DEVS 100/6.0 and DEVS 230/3.0 and DEVS 240/3.0 (DEVS 100/6.0 can be taken concurrently with DEVS 230/3.0 or DEVS 240/3.0 in exceptional circumstances).

DEVS 305/6.0  Cuban Culture and Society
This course is designed to introduce students to Cuban society and culture. The course will focus especially on the period from the Cuban revolution (1959) to the present. Students will examine some of the main events and highlights of Cuban history, politics and culture in this era. Two weeks of this four-week intensive course will take place at Queen’s and two weeks at the University of Havana.
NOTES  1  Students are expected to pay an ancillary fee for travel and accommodation while in Havana.
2  Students must apply to take the course. Applications are available in the DEVS office.
3  Students are expected to attend a pre-departure orientation.
4  Costs and application deadlines will be posted on the DEVS website.
PREREQUISITE  Level 3 or above and registration in any Arts and Science Plan.
EQUIVALENCY  DEVS 309/3.0.

DEVS 310/3.0  Development and Democracy  1L;2S
An examination of the complex relationship between development and democracy, in the context of the rapid integration of developing countries into the world economy. The impacts of these changes on ideas about democracy, and on democratic institutions in practice, will be critically examined.
PREREQUISITES  DEVS 100/6.0 and Level 3 or above and registration in any DEVS Plan, or permission of the Department.

DEVS 311/3.0  Labour and Global Development  2L;1T
Explores the relationships between the production of goods, the lives and livelihoods of workers, and socio-economic development at local, national and global levels. Issues include: the international division of labour; global commodity chains; technological change; labour markets; informal sector; genders in production; unions and labour rights.
PREREQUISITES  DEVS 100/6.0 and DEVS 230/3.0.

DEVS 320/3.0  AIDS, Power, and Poverty  2L;1T
HIV/AIDS is one of the most pressing development issues in the world today. This course examines the cultural, political, economic, and other social factors that contribute to its transmission and intractability, and which help to explain the differential impact of the disease upon societies worldwide. Particular attention is paid to the ways that specific social/sexual identities and practices arising from inequitable class, gender, race, and ethnic relations, affect the prevalence of HIV, the ability to contain its spread, and the human costs that it entails. PREREQUISITE  Level 3 or above and (DEVS 100/6.0 or DEVS 220/3.0 or DEVS 221/3.0 or DEVS 230/3.0 or HLTH 101/3.0).

DEVS 321/3.0  Development Dramas  2L;1T
In its capacity to imagine, construct, and disseminate modes of being and becoming, theatre has helped shape and rework colonialism, national liberation, postcolonial citizenship, and neoliberal globalization. This course is a critical exploration of this evolving relationship between theatre and development from a variety of perspectives throughout the world.
PREREQUISITE  DEVS 100/6.0, or permission of the Department.
EXCLUSION  No more than 3.0 units from DEVS 321/3.0; DEVS 392/3.0 (2007-08).

DEVS 330/3.0  Technology and Development  3L;2P
An introduction to the socio-economic, cultural and political factors surrounding technology and its relationship to the development process in both advanced industrial societies and developing nations. Student project groups will focus on particular realms of technology in development and the interaction of politics and policy with technological choice and design, including appropriate, intermediate and sustainable technologies.
PREREQUISITE  Level 3 or above and (registration in any DEVS Plan or registration in any Applied Science Program), or permission of the Department.
DEVS 340/3.0  Theories of Development  2L:1T
Provides students with an overview of theories that underpin the development enterprise, and critiques of development, through the use of primary texts and critical appraisals.
PREREQUISITES    DEVS 100/6.0 and DEVS 230/3.0 and DEVS 240/3.0. (DEVS 100/6.0 can be taken concurrently with DEVS 230/3.0 or DEVS 240/3.0 in exceptional circumstances).
EXCLUSION    No more than 3.0 units from DEVS 340/3.0; POLS 346/3.0.

DEVS 392/3.0  Topics in Development Studies I  3S
Seminars offered by regular and visiting faculty on development topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each year.
PREREQUISITE    Level 3 or above and registration in any DEVS Plan, or permission of the Department.
EXCLUSION    No more than 3.0 units from DEVS 321/3.0; DEVS 392/3.0 (2007-08).

DEVS 393/3.0  Topics in Development Studies II  3S
Seminars offered by regular and visiting faculty on development topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each year.
PREREQUISITE    Level 3 or above and registration in any DEVS Plan, or permission of the Department.

DEVS 394/3.0  Topics in Development Studies III  3S
Seminars offered by regular and visiting faculty on development topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each year.
PREREQUISITE    Level 3 or above and registration in any DEVS Plan, or permission of the Department.

DEVS 395/3.0  Topics in Development Studies IV  3S
Seminars offered by regular and visiting faculty on development topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each year.
PREREQUISITE    Level 3 or above and registration in any DEVS Plan, or permission of the Department.

DEVS 396/3.0  Topics in Development Studies V  3S
Seminars offered by regular and visiting faculty on development topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each year.
PREREQUISITE    Level 3 or above and registration in any DEVS Plan, or permission of the Department.

DEVS 410/6.0  Work-Study Placement in Development Studies
Provides students with first-hand experience working with an agency involved in international development, either in Canada or abroad. The placement will normally be for 10-20 weeks, to be negotiated with the sponsoring agency. Students are required to attend preparatory meetings, prepare a work-study proposal, a research paper on the placement and maintain a journal on a continuing basis while on their placement. In addition to academic requirements, students are required to enroll in the Queen's Emergency Support Program, attend pre-departure orientation and complete Queen's Off-Campus Activity Safety Policy (OCASP) requirements.
NOTE    Students are normally responsible for all costs associated with participation in this course.
PREREQUISITES    Level 3 or above and registration in the DEVS Major Plan and departmental approval in advance from the Head of Global Development Studies.
COREQUISITE    DEVS 411/3.0  (Under special circumstances a student can substitute DEVS 502/3.0 (Directed Readings in Development Studies) for DEVS 411/3.0. Permission for the latter may be granted to students who have completed all other degree requirements, and who do not need to return to Queen's University campus following completion of their placement. Students must seek prior approval from the Placement Coordinator, Global Development Studies for this option).
EXCLUSION    No more than 1 course from DEVS 410/6.0; DEVS 421/3.0.
EXCLUSION    No more than 1 course from DEVS 410/6.0; DEVS 420/3.0; DEVS 432/6.0.
DEVS 411/3.0  Post-Placement Seminar in Development Studies  3S
Required for students who have successfully completed the course requirements for DEVS 410. The course will provide a forum for students to debrief and to critically examine their placement experience. Evaluation based on presentation, participation, journal synthesis and a final report.
PREREQUISITE  DEVS 410/6.0 and Level 3 or above and registration in the DEVS Major Plan and departmental approval in advance from the Placement Coordinator, Global Development Studies.
EXCLUSIONS  No more than 1 course from DEVS 411/3.0; DEVS 432/6.0.
ONE-WAY EXCLUSION  May not be taken with or after DEVS 420/3.0; DEVS 421/3.0.

DEVS 420/3.0  International Exchange in Development Studies
Participation in an organized educational or cultural exchange, either i) one term of studies at a developing-country university, or ii) an exchange program in a developing-country setting with an organization such as Canada World Youth or Shastri Indo-Canadian Institute for at least 6 weeks. Students are required to prepare a work-study proposal, a risk assessment of their placement and attend a pre-departure orientation. Assessment will also be based on a journal and final report.
NOTE  Students are normally responsible for all costs associated with this course.
PREREQUISITES  Level 3 or above and registration in the DEVS Major or Medial Plan and departmental approval in advance from the Placement Coordinator, Global Development Studies.
EXCLUSION  No more than 1 course from DEVS 410/6.0; DEVS 420/3.0; DEVS 432/6.0.
EXCLUSION  No more than 3.0 units from DEVS 420/3.0; DEVS 421/3.0.

DEVS 421/3.0  International Exchange at Fudan
For students who spend one semester at Fudan University in Shanghai. Includes a five-day pre-departure orientation session, a daily journal, a final report reflecting on their experience as a whole and how it fits with development theory and practice as they have learned it in class, and post-semester meetings and presentations as part of the re-entry learning experience. Winter Term.
PREREQUISITES  DEVS 430/3.0 and DEVS 431/6.0 and DEVS 432/6.0 and registration in the DEVS Major Plan.
EXCLUSION  No more than 1 course from DEVS 410/6.0; DEVS 421/3.0.
EXCLUSION  No more than 3.0 units from DEVS 420/3.0; DEVS 421/3.0.

DEVS 430/3.0  Introduction to Modern Chinese History at Fudan
The course surveys Chinese history during the nineteenth and twentieth centuries, with particular focus on events and developments occurring in Shanghai. Assignments include oral presentations, reading reports, and a research paper. The course may also include visits to site of historical interests. Fall Term.
NOTE  This course is part of a Study Abroad program in Shanghai, which will require students pay a program fee to cover costs over and above tuition, as well as travel accommodation and subsistence. Further details of the estimated costs can be obtained from the Department of Global Development Studies Office.
PREREQUISITE  Departmental approval in advance from the Placement Coordinator, Global Development Studies.
COREQUISITES  DEVS 431/6.0 and DEVS 432/6.0.

DEVS 431/6.0  Shanghai and Globalization at Fudan
Examines Shanghai's place in an era of globalization, with emphasis placed on the interrelationship between development theory and current changes in China. The course includes both Queen's and Fudan students in an integrated classroom setting at Fudan University, Shanghai, and will expose both groups of students to different ways of thinking, and provide intercultural exchange. Fall Term.
NOTE  This course is part of a Study Abroad program in Shanghai, which will require students to pay a program fee to cover costs over and above tuition, as well as travel, accommodation and subsistence. Further details of the estimated costs can be obtained from the Global Development Studies office.
PREREQUISITES  Departmental approval in advance from the course instructor and the Placement Coordinator, Global Development Studies.
COREQUISITES  DEVS 430/3.0 and DEVS 432/6.0.
DEVS 432/6.0  Work Placement or Field Research Practicum at Fudan University
Provides students with an opportunity to gain practical development experience or to conduct field research under the guidance of a Fudan instructor. For the Work Placement, Queen's students are paired with Fudan students and then linked to a development organization working in Shanghai. For the Research Project, Queen's students are paired with Fudan counterparts and undertake research on an important development theme, submit a written paper and do a class presentation. Both the placement and research project will involve at least 10 hours of field work per week for 12 weeks. Fall Term.
NOTE  This course is part of a Study Abroad program in Shanghai, which will require students to pay a program fee to cover costs over and above tuition, as well as travel, accommodation and subsistence. Further details of the estimated costs can be obtained from the Global Development Studies office.
PREREQUISITES  Departmental approval in advance from the course instructor and the Placement Coordinator, Global Development Studies.
COREQUISITES  DEVS 430/3.0 and DEVS 431.
EXCLUSION  No more than 1 course from DEVS 410/6.0; DEVS 420/3.0; DEVS 432/6.0
EXCLUSION  No more than 1 course from DEVS 411/3.0; DEVS 432/6.0

DEVS 492/3.0  Topics in Development Studies I  3S
Seminars offered by regular and visiting faculty on development topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each year.
NOTE  Taught concurrently with DEVS 809/3.0.
PREREQUISITE  Level 4 and registration in the DEVS Major or Medial Plan, or permission of the Department.
EXCLUSION  No more than 3.0 units from DEVS 492/3.0; DEVS 809/3.0.

DEVS 493/3.0  Topics in Development Studies II  3S
Seminars offered by regular and visiting faculty on development topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each year.
NOTE  Taught concurrently with DEVS 803/3.0.
PREREQUISITE  Level 4 and registration in the DEVS Major or Medial Plan, or permission of the Department.
EXCLUSION  No more than 3.0 units from DEVS 493/3.0; DEVS 803/3.0.

DEVS 494/3.0  Topics in Development Studies III  3S
Seminars offered by regular and visiting faculty on development topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each year.
NOTE  Taught concurrently with DEVS 804/3.0.
PREREQUISITE  Level 4 and registration in the DEVS Major or Medial Plan, or permission of the Department.
EXCLUSION  No more than 3.0 units from DEVS 494/3.0; DEVS 804/3.0.

DEVS 495/3.0  Topics in Development Studies IV  3S
Seminars offered by regular and visiting faculty on development topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each year.
NOTE  Taught concurrently with DEVS 805/3.0.
PREREQUISITE  Level 4 and registration in the DEVS Major or Medial Plan, or permission of the Department.
EXCLUSION  No more than 3.0 units from DEVS 495/3.0; DEVS 805/3.0.

DEVS 496/3.0  Topics in Development Studies V  3S
Seminars offered by regular and visiting faculty on development topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each year.
NOTE  Taught concurrently with DEVS 806/3.0.
PREREQUISITE  Level 4 and registration in the DEVS Major or Medial Plan, or permission of the Department.
EXCLUSION  No more than 3.0 units from DEVS 496/3.0; DEVS 806/3.0.
DEVS 497/3.0  Topics in Development Studies VI  3S
Seminars offered by regular and visiting faculty on development topics related to their research interests. Consult the
departmental homepage for further details of specific course offerings each year.
NOTE  Taught concurrently with DEVS 807/3.0.
PREREQUISITE  Level 4 and registration in the DEVS Major or Medial Plan, or permission of the Department.
EXCLUSION  No more than 3.0 units from DEVS 497/3.0; DEVS 807/3.0.

DEVS 498/3.0  Topics in Development Studies VII  3S
Seminars offered by regular and visiting faculty on development topics related to their research interests. Consult the
departmental homepage for further details of specific course offerings each year.
NOTE  Taught concurrently with DEVS 808/3.0.
PREREQUISITE  Level 4 and registration in the DEVS Major or Medial Plan, or permission of the Department.
EXCLUSION  No more than 3.0 units from DEVS 498/3.0; DEVS 808/3.0.

DEVS 499/3.0  Topics in Development Studies VIII  3S
Seminars offered by regular and visiting faculty on development topics related to their research interests. Consult the
departmental homepage for further details of specific course offerings each year.
PREREQUISITE  Level 4 and registration in the DEVS Major or Medial Plan, or permission of the Department.

DEVS 501/6.0  Honours Thesis in Development Studies
The course will involve a critical review of the literature on a clearly-defined topic relevant to development, a
synthesis of ideas, and a final thesis under the supervision of a faculty member.
NOTE  The student must pay a modest fee for the binding of the departmental copy. The estimated cost is $20.
NOTE  The student must identify a willing supervisor from DEVS or a cognate department and receive permission
of the Department of Global Development Studies.
PREREQUISITES  Minimum Cumulative GPA of 3.50 and Level 4 and registration in the DEVS Major or Medial Plan.
EXCLUSION  DEVS 450/3.0.

DEVS 502/3.0  Directed Readings in Development Studies
This course enables a student or a group of students to explore a body of literature on a selected topic in
development. The focus may be by theme, by region or by academic approach and can span the humanities, social
sciences and environmental sciences.
NOTE  The students are responsible for approaching a professor with whom they wish to work and who is willing
to undertake this project.
PREREQUISITES  Minimum Cumulative GPA of 3.50 and Level 4 and registration in the DEVS Major or Medial Plan.
**DRAM 100/6.0  Introduction to the Theatre**  
3L;1T  
An exploration of stage production, acting, directing, playwriting, theatre history, dramatic analysis and criticism through use of plays chosen from various periods and representing different styles and genres. Opportunities given for practical projects.  
**EXCLUSION**  No more than 6.0 units from DRAM 100/6.0; DRAM 181/6.0.

**DRAM 181/6.0  Introduction to Current Theatre**  
3L/P  
An examination of the elements of theatrical production through the use of text, live and videotaped performances. Opportunity given for practical projects. While content varies from year to year, the course draws upon students’ access to theatre in the United Kingdom and Europe.  
**NOTE**  Offered only at the Bader International Study Centre, Herstmonceux.  
**EXCLUSION**  No more than 6.0 units from DRAM 100/6.0; DRAM 181/6.0.

**DRAM 201/3.0  Drama I**  
3L  
A survey of structure, forms and ideas of dramatic literature originating in works up to the 18th century. Plays will be read in English.

**DRAM 202/3.0  Drama II**  
3L  
A survey of structure, forms and ideas of dramatic literature originating in works from 17th century to present. Plays will be read in English.

**DRAM 205/3.0  Theatre in the Age of Film and Television**  
3L/P  
An examination of how some of the major trends in theatre since the 19th century have been affected or represented by mass media including film, television, radio and other electronic media. The course will study examples of influential dramatic work on film as well as other dramaturgical responses to social, cultural, and political issues presented through the mass media.  
**PREREQUISITE**  Level 2.

**DRAM 210/6.0  Theatre History**  
3L  
A survey of production methods, architecture, and performance in western and eastern theatre traditions from early classical eras to the end of the 19th century.  
**PREREQUISITE**  A grade of B- in DRAM 100/6.0 or DRAM 181/6.0, or permission of the Department.

**DRAM 216/3.0  Musical Theatre**  
3L  
An examination of the major trends in musical theatre production and theory since the 19th century, exploring the work of important composers and lyricists and the structure of musical theatre works.  
**PREREQUISITE**  A grade of B- in DRAM 100/6.0 or DRAM 181/6.0, or permission of the Department.

**DRAM 219/3.0  Special Studies I**  
3L  
A seminar or workshop in selected areas of the curriculum.  
**NOTE**  Not offered each year. Prerequisites vary depending on specific course content. See Department for details.

**DRAM 237/3.0  Elementary Acting I - The Actor’s Instrument**  
3L/P  
A practical introduction to the fundamental skills and techniques of acting, involving an appreciation of the interdependence of the actor’s body, voice, intellect, feeling, and cultural context.  
**NOTE**  Also offered at the Bader International Study Centre, Herstmonceux.  
**PREREQUISITE**  A grade of B- in DRAM 100/6.0 or DRAM 181/6.0, or permission of the Department.  
**COREQUISITE**  6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0.

**DRAM 238/3.0  Elementary Acting II - Theories and Styles of Acting**  
3L/P  
A practical introduction to various theories and styles of acting, involving the exploration of various approaches to the cultural and period context of performance.  
**PREREQUISITE**  A grade of B- in DRAM 100/6.0 or DRAM 181/6.0, or permission of the Department.  
**COREQUISITE**  6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0.
DRAM 239/3.0 Special Topics in Performance I 3L/P
Practical work in selected areas of performance. Not offered every year.
NOTE Prerequisites vary depending on specific course content; consult Department.

DRAM 240/3.0 Introduction to Theatre Space 3L/P
A theoretical and practical introduction to technical production including various elements of theatre space, design and construction, groundplans, and stage management.
NOTE Twenty-four additional laboratory hours required on department productions.
Preference will be given to students registered in a DRAM Plan who require this course for their plan.
PREREQUISITE A grade of B- in DRAM 100/6.0 or DRAM 181/6.0 or permission of the Department.
COREQUISITE 6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0.
EXCLUSION No more than 6.0 units from DRAM 240/3.0; DRAM 242/3.0; DRAM 245/6.0.

DRAM 241/3.0 Design and Theatre 3L/P
An examination of design elements in theatrical production, exploring the work of design practitioners and theorists, and studying the design process.
PREREQUISITE A grade of B- in DRAM 240/3.0, or permission of the Department.
COREQUISITE 6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0.

DRAM 242/3.0 Introduction to Theatre Production 3L/P
A theoretical and practical introduction to theatre production including various elements of design construction, costume, properties, lighting and sound systems and equipment.
NOTE Thirty-six additional laboratory hours required on department productions.
Preference will be given to students registered in a DRAM Plan or who require this course for their plan.
PREREQUISITE A grade of B- in DRAM 240/3.0.
COREQUISITE 6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0.
EXCLUSION No more than 6.0 units from DRAM 240/3.0; DRAM 242/3.0; DRAM 245/6.0.

DRAM 251/3.0 Playwriting and Dramaturgy I 3L/S
Writing of dramatic exercises and one-act plays accompanied by dramaturgical study of published and original works.
PREREQUISITE A grade of B- in DRAM 100/6.0 or DRAM 181/6.0, or permission of the Department.
COREQUISITE 6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0.

DRAM 252/3.0 Playwriting and Dramaturgy II 3L/S
Continuation of DRAM 251/3.0. Writing of dramatic exercises and one-act plays accompanied by dramaturgical study of published and original works, including final submissions for DRAM 251/3.0.
PREREQUISITE A grade of B- in DRAM 251/3.0 or permission of the Department.
COREQUISITE 6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0.

DRAM 289/3.0 Special Studies in British and European Theatre 3L
An examination of the theatrical nature of British and European dramatic literature, current and past productions, and architectural structures, using various elements of site and performance as text for discussion and projects.
NOTE Offered only at the Bader International Study Centre, Herstmonceux.
NOTE Prerequisites vary depending on specific course content; consult Department.

DRAM 301/3.0 Theories of the Theatre I 3L/S
An exploration of theoretical questions underlying drama and performance throughout their histories. Selected readings, lectures, student presentations, class discussions and contemplation of theatre issues.
PREREQUISITES A GPA of 2.60 in: (6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0) and (6.0 units from DRAM 237/3.0; DRAM 238/3.0; DRAM 239/3.0; DRAM 240/3.0; DRAM 241/3.0; DRAM 242/3.0; DRAM 245/6.0; DRAM 251/3.0; DRAM 252/3.0) or permission of the Department.
**DRAM 302/3.0**  
Critical Perspectives for Theatre and Drama  
3L/S  
An introduction to various critical approaches and voices commenting on the theatre throughout its history. The work of selected critics will form the basis of an exploration of the nature and function of criticism in its different forms.  
PREREQUISITES  
A GPA of 2.60 in: (6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0) and (6.0 units from DRAM 237/3.0; DRAM 238/3.0; DRAM 239/3.0; DRAM 240/3.0; DRAM 241/3.0; DRAM 242/3.0; DRAM 245/6.0; DRAM 251/3.0; DRAM 252/3.0) or permission of the Department.

**DRAM 305/3.0**  
Canadian Theatre and Drama  
3L/S  
Theatre in Canada from its earliest years to now, focused on selected issues which give shape to artistic expression and events. Texts will be read in English.  
PREREQUISITES  
A GPA of 2.60 in: (6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0) and (6.0 units from DRAM 237/3.0; DRAM 238/3.0; DRAM 239/3.0; DRAM 240/3.0; DRAM 241/3.0; DRAM 242/3.0; DRAM 245/6.0; DRAM 251/3.0; DRAM 252/3.0) or permission of the Department.

**DRAM 306/3.0**  
Canadian Drama  
3L/S  
A study of plays and performance in Canada, concentrating on works since the 1960s. Attention will be paid to experiments by companies and individual playwrights. Texts will be read in English.  
PREREQUISITES  
A GPA of 2.60 in: (6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0) and (6.0 units from DRAM 237/3.0; DRAM 238/3.0; DRAM 239/3.0; DRAM 240/3.0; DRAM 241/3.0; DRAM 242/3.0; DRAM 245/6.0; DRAM 251/3.0; DRAM 252/3.0) or permission of the Department.

**DRAM 310/3.0**  
Modernist Staging  
3L/S  
Study of changing approaches to performance internationally from late 19th century to mid-20th century. Emphasis on interdisciplinarity with other arts and experimentation in methods and forms of stage production.  
PREREQUISITES  
A GPA of 2.60 in: DRAM 210/6.0 and (6.0 units from DRAM 237/3.0; DRAM 238/3.0; DRAM 239/3.0; DRAM 240/3.0; DRAM 241/3.0; DRAM 242/3.0; DRAM 245/6.0; DRAM 251/3.0; DRAM 252/3.0) or permission of the Department.

**DRAM 311/3.0**  
Introduction to Theatre for Young People  
3L/S  
The history and theory of theatre conceived for audiences of young people. Students will read a variety of plays intended for young audiences and consider the social and artistic issues associated with various dramatic and theatrical techniques.  
PREREQUISITES  
A GPA of 2.60 in: (6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0) and (6.0 units from DRAM 237/3.0; DRAM 238/3.0; DRAM 239/3.0; DRAM 240/3.0; DRAM 241/3.0; DRAM 242/3.0; DRAM 245/6.0; DRAM 251/3.0; DRAM 252/3.0) or permission of the Department.

**DRAM 314/3.0**  
Young Peoples' Theatre Practicum  
3L/S  
The development and performance of theatre conceived for audiences of young people. The course will begin with an examination of examples of the genre and will culminate in a public performance.  
PREREQUISITE  
A grade of B- in DRAM 311/3.0, or permission of the Department.

**DRAM 318/3.0**  
Issues and Histories of Contemporary Performance  
3L/S  
Study of changing approaches to performance internationally from the 1950s to the present. Emphasis on interdisciplinarity with other arts and experimentation in methods and forms of stage production.  
PREREQUISITES  
A GPA of 2.60 in: DRAM 210/6.0 and (6.0 units from DRAM 237/3.0; DRAM 238/3.0; DRAM 239/3.0; DRAM 240/3.0; DRAM 241/3.0; DRAM 242/3.0; DRAM 245/6.0; DRAM 251/3.0; DRAM 252/3.0) or permission of the Department.

**DRAM 319/3.0**  
Special Studies II  
3L/S  
A seminar or workshop in selected areas of the curriculum. Not offered every year. See Department for details.  
NOTE  
Prerequisites vary depending on specific course content; consult Department.
DRAM 323/3.0  Practical Concerns in Directing  3S/P/L
Exploration of practical preproduction needs. Topics may include casting, staging, theatre configuration, textual alteration, rehearsal technique, period research, design approaches.
PREREQUISITES  A GPA of 2.60 in: (6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0) and DRAM 240/3.0 and DRAM 242/3.0 and (DRAM 310/3.0 or DRAM 344/3.0) or permission of the Department.

DRAM 330/6.0  Intermediate Acting - Text Analysis  6L/P
Continuation of DRAM 237/3.0. A practical examination of the actor’s work on text. Study, rehearsal and presentation in class of various kinds of text from different periods and styles.
PREREQUISITES  A GPA of 2.60 in: (6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0) and DRAM 237/3.0 and (3.0 units from DRAM 238/3.0; DRAM 239/3.0; DRAM 240/3.0; DRAM 241/3.0; DRAM 242/3.0; DRAM 245/6.0; DRAM 251/3.0; DRAM 252/3.0) or permission of the Department.

DRAM 331/3.0  Playing Shakespeare  3L/P
An introduction to playing Shakespeare. Ways of breathing life into the text thereby communicating a character’s thoughts, wants and emotional state to an audience will be explored.
PREREQUISITES  A GPA of 2.60 in: (6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0) and DRAM 237/3.0 and (3.0 units from DRAM 238/3.0; DRAM 239/3.0; DRAM 240/3.0; DRAM 241/3.0; DRAM 242/3.0; DRAM 245/6.0; DRAM 251/3.0; DRAM 252/3.0) or permission of the Department.
EXCLUSION  No more than 3.0 units from DRAM 331/3.0; DRAM 339/3.0 (2005/06 - 2006/07).

DRAM 339/3.0  Special Topics in Performance II  6L/S/P
Practical work in selected areas of performance. Not offered every year.
NOTE  Prerequisites vary depending on specific course content; consult Department.

DRAM 342/3.0  Elements of Design Practice  3L/S/P
An examination of specific topics in contemporary design practice with special attention to the areas of lighting, costume, and sound design: includes theoretical and practical design projects.
PREREQUISITES  A GPA of 2.60 in: (6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0) and (6.0 units from DRAM 240/3.0; DRAM 241/3.0; DRAM 242/3.0; DRAM 245/6.0) or permission of the Department.

DRAM 344/3.0  Scenography  3L/S
A study of the integration of the elements of design which together contribute to a three-dimensional environment for performance.
PREREQUISITES  A GPA of 2.60 in: (6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0) and (6.0 units in DRAM 240/3.0; DRAM 241/3.0) or permission of the Department.

DRAM 345/3.0  Applied Technical Production  3L/P
Advanced technical production studies involving sound, lighting, stage management, wardrobe, and carpentry. Students will participate in major departmental technical projects.
NOTE  The normal classroom time of 36 hours is spread over two terms.
PREREQUISITES  A GPA of 2.60 in: (6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0) and (6.0 units from DRAM 240/3.0 and DRAM 242/3.0 or DRAM 245/6.0), or permission of the Department.

DRAM 348/3.0  Theatre Administration  3L/S/P
An examination of various elements of theatre administration including fundraising, budgeting, and producing.
PREREQUISITES  A GPA of 2.60 in: (6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 205/3.0; DRAM 210/6.0) and (6.0 units from DRAM 237/3.0; DRAM 238/3.0; DRAM 239/3.0; DRAM 240/3.0; DRAM 241/3.0; DRAM 242/3.0; DRAM 245/6.0; DRAM 251/3.0; DRAM 252/3.0) or permission of the Department.
DRAM 350/6.0  Playwriting III  3S
Continuation of DRAM 251/3.0. An intermediate study of playwriting and dramaturgy, including exercises in
dramatic techniques and composition of original works.
PREREQUISITES  A GPA of 2.60 in: (6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0) and
DRAM 251/3.0 and (3.0 units from DRAM 237/3.0; DRAM 238/3.0; DRAM 239/3.0; DRAM 240/3.0; DRAM
241/3.0; DRAM 242/3.0; DRAM 245/6.0; DRAM 252/3.0) or permission of the Department.
EXCLUSION  No more than 1 course from DRAM 350/6.0; DRAM 351/3.0.

DRAM 351/3.0  Playwriting and Dramaturgy III  3S
Continuation of DRAM 251/3.0. An intermediate study of playwriting and dramaturgy, including exercises in
dramatic techniques and composition of original works.
PREREQUISITES  A GPA of 2.60 in: (6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0) and
DRAM 251/3.0 and (3.0 units from DRAM 237/3.0; DRAM 238/3.0; DRAM 239/3.0; DRAM 240/3.0; DRAM
241/3.0; DRAM 242/3.0; DRAM 245/6.0; DRAM 252/3.0) or permission of the Department.
EXCLUSION  No more than 1 course from DRAM 350/6.0; DRAM 351/3.0.

DRAM 371/3.0  Modern Drama at the Shaw Festival  12L/S
Intensive study in the mandate and practice of the Shaw Festival in Niagara-on-the-Lake, Ontario. Students attend
several productions at the Shaw Festival, discussing these in seminars and with guest speakers drawn from the Shaw
company where available.
NOTE  Taught in Niagara-on-the-Lake during summer Term. May be taken in conjunction with DRAM 373/3.0.
There is a lab fee for this course, which includes theatre tickets. Information regarding fee and accommodation is
available on the departmental website.
NOTE  Preference will be given to students registered in a DRAM Plan or who require this course for their plan.
PREREQUISITE  Level 3 standing in a DRAM plan, or permission of the Drama Department.

DRAM 373/3.0  Scene Study at the Shaw Festival  12L/S
Intermediate acting course in which a variety of techniques and exercises will be used to explore selected dramatic
texts drawn from the mandate of the Shaw Festival - mainly plays written during the lifetime of George Bernard
Shaw (1856 to 1950).
NOTE  Taught in Niagara-on-the-Lake during Summer Term. There is a lab fee for this course which includes
theatre tickets. Information regarding fee and accommodation is available on the Departmental website.
NOTE  Preference will be given to students registered in DRAM plan or who require this course for their plan.
PREREQUISITE  DRAM 237/3.0 or DRAM 238/3.0 or permission of the Drama Department.
COREQUISITE  DRAM 371/3.0.

DRAM 375/3.0  Women and Theatre I  3L/S
A survey of selected topics concerning women’s participation in international theatre. Emphasis will be on
historical, practical and theoretical inquiry and application of feminist methodologies in such work.
PREREQUISITES  A GPA of 2.60 in: ([6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0] and [6.0
units from DRAM 237/3.0; DRAM 238/3.0; DRAM 239/3.0; DRAM 240/3.0; DRAM 241/3.0; DRAM 242/3.0;
DRAM 245/6.0; DRAM 251/3.0; DRAM 252/3.0]) or (Level 3 standing in a GNDS Plan) or permission of the
Department.

DRAM 381/3.0  Contemporary British Theatre and Drama  3S
Examination of the work of selected playwrights, to include world drama currently or recently produced in the
British theatre.
NOTE  Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITE  A GPA of 2.60 in (6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0) or ENGL
100/6.0 or ENGL 110/6.0, or permission of the Department.

DRAM 401/3.0  Theories of the Theatre II  3L/S
Seminar in 20th-century theories of drama and performance, including various school and modes of thought.
PREREQUISITE  A GPA of 2.60 in: (6.0 units from DRAM_Robertson courses at the 300 level) and (6.0 units
from DRAM_Greene courses at the 300 level) or permission of the Department.
DRAM 405/3.0  Canadian Theatre: Advanced Study  3L/S
In-depth exploration of selected topics related to Canadian theatre and drama.
PREREQUISITE  A GPA of 2.60 in: (6.0 units from DRAM_Robertson courses at the 300 level) and (6.0 units from DRAM_Greene courses at the 300 level) or permission of the Department.

DRAM 419/3.0  Special Studies III  3L/S
A seminar or workshop in selected areas of the curriculum. Not offered every year. See Department for details.
NOTE  Prerequisites vary depending on specific course content; consult Department.

DRAM 422/3.0  Directing Practicum I  3P
Students’ directing of short scenes will be the basis of practical exploration of directorial methods.
PREREQUISITE  A grade of B- in DRAM 323/3.0, or permission of the Department.

DRAM 431/3.0  Advanced Acting - Performance I  6P
Research, rehearsal and presentation of a role for performance.
PREREQUISITES  A grade of B- in DRAM 330/6.0 or a GPA of 1.70 in 6.0 units from: DRAM 331/3.0; DRAM 339/3.0; DRAM 373/3.0 or permission of the Department.

DRAM 432/3.0  Advanced Acting - Performance II  6P
Research, rehearsal and presentation of a role for performance.
PREREQUISITES  A grade of B- in DRAM 330/6.0 or a GPA of 1.70 in 6.0 units from: DRAM 331/3.0; DRAM 339/3.0; DRAM 373/3.0 or permission of the Department.

DRAM 439/3.0  Special Topics in Performance III  6L/S/P
Practical work in selected areas of performance. Not offered every year.
NOTE  Prerequisites vary depending on specific course content; consult Department.

DRAM 451/3.0  Playwriting and Dramaturgy IV  3S
An advanced study of playwriting and dramaturgy, including exercises in dramatic techniques and composition of original works with emphasis on the full-length play.
NOTE  The normal classroom time of 36 hours may be spread over two terms.
PREREQUISITE  A grade of B- in DRAM 350/6.0 or DRAM 351/3.0, or permission of the Department.

DRAM 475/3.0  Women and Theatre II  3L/S
An advanced seminar in selected topics which may include experiments in theory and criticism, scenographic design, acting, and mise en scène. Students will be expected to develop a specific area of individual research.
PREREQUISITE  A GPA of 2.60 in: (6.0 units from DRAM_Robertson courses at the 300 level) and (6.0 units from DRAM_Greene courses at the 300 level) or level 3 standing in a GNDS plan, or permission of the Department.

DRAM 476/3.0  Cultures of Theatre  3L/S
A study of the relationship between the evolving cultural milieu and the theatre. Topics may include funding policies, practitioners’ associations, equity, performance spaces, development of traditions.
PREREQUISITES  A GPA of 2.60 in: (6.0 units from DRAM_Robertson courses at the 300 level) and (6.0 units from DRAM_Greene courses at the 300 level) or permission of the Department.

DRAM 500/6.0  Senior Project
An independent advanced project or thesis in any area of the basic curriculum, supervised and evaluated by faculty. Completed applications must be submitted by 15 March of students’ third year for Department approval. Consult faculty advisers or supervisor for detailed information well in advance of the deadline.
NOTE  In addition to the prerequisites indicated below, the department may require a grade of A- in any DRAM course relevant to the subject of study.
PREREQUISITE  A GPA of 2.90 in 30.0 units in DRAM.
**DRAM 501/3.0  Directed Special Studies**
An independent advanced project in any area of the basic curriculum, supervised and evaluated by faculty. Completed applications must be submitted for Department approval by 15 March of students’ third year. Consult faculty advisors or supervisors for detailed information well in advance of the deadline.

**NOTE**  In addition to the prerequisites indicated below, the department may require a grade of A- in any DRAM course relevant to the subject of study.

**PREREQUISITE**  A GPA of 2.90 in 30.0 units in DRAM.

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**DRAM 502/3.0  Directed Special Studies**
An independent advanced project in any area of the basic curriculum, supervised and evaluated by faculty.

**NOTE**  Completed applications may be submitted for Department approval by 15 March of students’ third year (obligatory if production elements are required); but must be submitted by 15 October of students’ fourth year. Consult faculty advisors or supervisors for detailed information well in advance of the deadline. In addition to the prerequisites indicated below, the department may require a grade of A- in any DRAM course relevant to the subject of study.

**PREREQUISITE**  A GPA of 2.90 in 30.0 units in Drama.

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**DRAM 541/3.0  Directed Special Studies in Design**
An independent advanced project in the area of design, supervised and evaluated by faculty. **NOTE**  Application must be submitted by 15 March for Department approval. Consult faculty advisors or supervisor for detailed information. The normal classroom time of 36 hours is spread over two terms.

**PREREQUISITE**  A grade of B in DRAM 342/3.0 or DRAM 345/3.0, or permission of the Department.

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**DRAM 545/3.0  Directed Special Studies in Technical Production**
Advanced examination of various roles in technical production, especially production and stage management, over the full year. Practical stage management projects are a component of the course.

**NOTE**  The normal classroom time of 36 hours is spread over two terms.

**PREREQUISITES**  A grade of A- in **DRAM 245/6.0** and **DRAM 345/3.0**, or permission of the Department.
ECON 110/6.0  **Principles of Economics**  3L
An introduction to economic analysis of a modern mixed economy, including the roles of government. The microeconomics part of the course analyzes the behaviour of individual consumers and producers and the functioning of the market price system. The macroeconomics part examines the functioning of the economy as a whole, including the determination of national income, the price level, interest rates, the money supply, and the balance of payments.
EXCLUSION  No more than 6.0 units from ECON 110/6.0; ECON 111/3.0; ECON 112/3.0.

ECON 111/3.0  **Introductory Microeconomics**  3L
An introduction to microeconomic analysis of a modern mixed economy. The course analyzes the behaviour of individual consumers and producers, the determination of market prices for commodities and resources, and the role of government policy in the functioning of the market system. ECON 111/3.0 and ECON 112/3.0 are together equivalent to ECON 110/6.0.
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.
NOTE  Also offered at the Bader International Study Centre, Herstmonceux.
EXCLUSION  No more than 6.0 units from ECON 110/6.0; ECON 111/3.0; ECON 112/3.0.

ECON 112/3.0  **Introductory Macroeconomics**  3L
An introduction to macroeconomic analysis of the economy as a whole, including the determination of national income, the price level, interest rates, the money supply, and the balance of payments. The principles of monetary and fiscal policy are also examined. ECON 111/3.0 and ECON 112/3.0 are together equivalent to ECON 110/6.0.
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.
NOTE  Also offered at the Bader International Study Centre, Herstmonceux.
EXCLUSION  No more than 6.0 units from ECON 110/6.0; ECON 111/3.0; ECON 112/3.0.

ECON 212/3.0  **Microeconomic Theory I**  3L
Theory of markets and prices: decision-making by individuals and firms, equilibrium conditions under various market structures, and issues of individual and social welfare. This course presumes a knowledge of calculus at the first-year university level.
NOTE  A grade of C in this course is required as a prerequisite for ECON 310/3.0.
PREREQUISITE  ECON 110/6.0 or (ECON 111/3.0 and ECON 112/3.0).
COREQUISITE  MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0) or MATH 126/6.0.

ECON 222/3.0  **Macroeconomic Theory I**  3L
A study of the basic models of national income determination and financial markets. The course includes application to policy problems such as inflation, unemployment and balance of payments disequilibria.
NOTE  A grade of C in this course is required as a prerequisite for ECON 320/3.0.
PREREQUISITE  ECON 110/6.0 or (ECON 111/3.0 and ECON 112/3.0).
COREQUISITE  MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0) or MATH 126/6.0.

ECON 223/3.0  **Macroeconomic Policy**  3L
Current topics in macroeconomic policy which may include: unemployment and policies to reduce it, government budget deficits, supply-side controversies, financial deregulation, policy coordination, and management of exchange rates. Comparison of policies in Canada, the United States, and other OECD countries.
PREREQUISITE  ECON 110/6.0 or ECON 112/3.0.

ECON 225/3.0  **The Economics of the European Union**  3L
This course will focus on two major topics: a) the process of economic integration towards a common market in Europe; and b) the coordination of macroeconomic policy within Europe, the operation of the European Monetary System and the movement towards European Union.
NOTE  Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITE  ECON 110/6.0 or ECON 112/3.0.
ECON 231/3.0  Emergence of the Modern Industrial Economy  3L
An examination of the origins of modern economic growth concentrating on the industrial revolution in Britain and the prior developments leading up to it. Some attention is directed to the early followers of the changes initiated in Britain.
PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 232/3.0  The Diffusion of Modern Economic Growth  3L
The spread of industrialization and economic development in Europe and areas beyond in the late 19th and early 20th centuries. The geographic focus may differ from year to year but Germany, Russia and Japan are usually included.
PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 238/3.0  Economies in Transition  3L
An empirical and analytical examination of the experience since 1989 of formerly communist countries of Central Europe and the successor states of the Soviet Union in the transition from centrally-planned economies to market economies.
PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 239/3.0  Economic Development  3L
A survey of the various economic theories and models elaborating the process of development. The course considers the meaning of economic development; the fundamental analytics of economic growth; the barriers to growth; balanced and unbalanced strategies of growth; population, employment and technology problems; foreign-trade and foreign aid issues.
PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 240/3.0  Canadian Tax Policy  3L
The incentive effects of taxes on the allocation of resources in the economy and their impact on the distribution of wealth in Canada. Reviews Canadian tax policy and evaluates the effects of various federal and provincial taxes on the behaviour of households and firms.
PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 241/3.0  Economic Aspects of Selected Social Issues  3L
An application of economic analysis to a selection of public policy issues. The topics covered will vary from year to year but examples include regulation of agricultural and industrial markets, health economics, trade policy, natural resource policy, property rights and the ‘external’ effects of private activities. This course should be of special interest to students of law, political studies and sociology as well as economics.
PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 243/3.0  The Economics of Health Care  3L
An economic analysis of modern health care institutions, organizations, and markets, both generically and in the Canadian context. A discussion of current Canadian health policy debates and various policy options and reform proposals.
PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 250/3.0  Introduction to Statistics  3L
Statistical methods as used in economics. This course introduces statistical hypothesis testing and covers basic methods as far as linear regression analysis.
NOTE A grade of C in this course is required as a prerequisite for ECON 351/3.0.
PREREQUISITE ECON 110/6.0 or (ECON 111/3.0 and ECON 112/3.0).
COREQUISITE MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0) or MATH 126/6.0.
EXCLUSION No more than 3.0 units from STAT 261/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0; COMM 162/3.0; ECON 250/3.0; PSYC 202/3.0; SOCY 211/3.0; BIOL 243/3.0; CHEE 209/3.0; GPHY 247/3.0; KNPE 251/3.0 or PHED 251/3.0; POLS 385/3.0; NURS 323/3.0.
ECON 255/3.0  Introduction to Mathematical Economics  3L
An introduction to the use of mathematics in economic analysis. The first part of the course will concentrate on techniques for constrained and unconstrained optimization, as applied to problems of firm and consumer behaviour. This will lead to the interpretation of Lagrange multipliers as shadow prices. The second part of the course will show how matrix algebra may be used to study problems of production and allocation in interdependent economies.
PREREQUISITES  (ECON 110/6.0 or [ECON 111/3.0 and ECON 112/3.0]) and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or [MATH 123/3.0 and MATH 124/3.0] or MATH 126/6.0).

ECON 261/3.0  Canadian Labour Relations  3L
An analysis of the Canadian labour relations system in an economic setting. The socio-economic institutional framework of the industrial and collective bargaining system in Canada provides the background for an analysis of some major emerging issues, such as white collar unionism, unions in the public sector, the public interest in emergency disputes, and the impact of technological change.
PREREQUISITE  ECON 110/6.0 or ECON 111/3.0.

ECON 262/3.0  Labour Markets and Gender Differences  3L
A Canadian perspective on labour market theories, trends, policies and the analysis of differences by gender in labour demand, labour supply, and wages.
PREREQUISITE  ECON 110/6.0 or ECON 111/3.0.

ECON 280/3.0  Population and Economic Change  3L
An examination of the interrelationships between changes in the size, composition and distribution of population and changes in the economy. Application is made of some elementary concepts of economic theory and some basic techniques of demographic analysis are introduced. Illustrations are drawn from both the Canadian and the international settings.
PREREQUISITE  ECON 110/6.0 or ECON 111/3.0.

ECON 290/3.0  Environmental Economics and Assessment  3L
An examination of the economic principles and practices for using environmental resources such as air, water, and natural environments. The economically optimal use of these resources is contrasted with actual uses in modern economies. Government policies are examined in theory and in practice. Cost benefit analysis is presented as a technique for evaluating public sector projects using environmental resources.
PREREQUISITE  ECON 110/6.0 or ECON 111/3.0.

ECON 310/3.0  Microeconomic Theory II  3L
A rigorous examination of the central core of microeconomic theory. Consumer demand, the theory of production, product and factor markets, general equilibrium and some aspects of welfare economics are covered. The emphasis is on techniques of analysis.
PREREQUISITES  (A grade of C in ECON 212/3.0) and ECON 255/3.0 and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or [MATH 123/3.0 and MATH 124/3.0] or MATH 126/6.0).

ECON 320/3.0  Macroeconomic Theory II  3L
An advanced study of the determinants of aggregate demand and the structure of Keynesian and new classical models. Policy issues covered include crowding out, choice of monetary policy instruments, and monetary policy and the exchange rate.
PREREQUISITES  (A grade of C in ECON 222/3.0) and ECON 255/3.0 and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or [MATH 123/3.0 and MATH 124/3.0] or MATH 126/6.0).

ECON 322/3.0  Financial Markets and Risk Management  3L
An in-depth coverage of portfolio selection theory, performance evaluation and derivative pricing theory. Portfolio risk management and hedging are introduced. Discussions on widely used derivative products including futures and options. Students will be exposed to the most recent developments in financial markets.
PREREQUISITES  ECON 212/3.0 and ECON 250/3.0 and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or [MATH 123/3.0 and MATH 124/3.0] or MATH 126/6.0).
EXCLUSION  No more than 3.0 units from ECON 322/3.0; COMM 321/3.0.
ECON 325/3.0  International Trade Policy  3L
An introduction to the theory of comparative advantage followed by a study of trade policies in developed and developing countries including tariffs and quotas, licensing arrangements, anti-dumping and safeguard mechanisms, domestic content rules and other non-tariff barriers, and multilateral arrangements.
PREREQUISITE  ECON 212/3.0.

ECON 331/3.0  Economic History of North America to 1865  3L
Uses the methods of economic analysis to examine the main features of the development of Canada before Confederation and the United States through the Civil War.
PREREQUISITE  ECON 212/3.0.

ECON 332/3.0  Economic History of North America since 1865  3L
The development of the economies of Canada from Confederation and the U.S. since the Civil War. A comparative approach to the development of the two economies is taken.
PREREQUISITE  ECON 212/3.0.

ECON 348/3.0  Law and Economics  3L;1T
Costs and benefits of legal rules. Among the topics covered are: the justification, acquisition, scope and taking by the state of property rights, the enforcement of and remedies for breach of contract, the assignment of liability in traffic accidents and harm from dangerous products, the costs of litigation and the optimal severity of punishment for crime with special reference to the death penalty.
PREREQUISITE  ECON 212/3.0.

ECON 351/3.0  Introductory Econometrics  3L
Estimation and inference in multivariate econometric models. Emphasizes understanding of methods and their properties as distinct from formal theoretical development. Practical tools for preparing and analyzing data with appropriate models are taught using econometric software.
PREREQUISITE  A grade of C in ECON 250/3.0 and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or [MATH 123/3.0 and MATH 124/3.0] or MATH 126/6.0).
COREQUISITE  ECON 255/3.0.
EXCLUSION  No more than 3.0 units from ECON 351/3.0; STAT 361/3.0.

ECON 360/3.0  Labour Economics  3L
An analytical course covering topics in labour supply analysis, the economics of human capital, labour demand, the operation of labour markets, the economic behaviour and effect of unions, and selected aspects of wage structure.
PREREQUISITE  ECON 212/3.0.

ECON 361/3.0  Income Distribution and Problems of Inequality  3L
A review of theories of the principal determinants of the distribution of income and wealth including labour supply, life-cycle savings, ability and investment in human capital, discrimination, intergenerational transfer mechanisms. Also examined are the distributional aspects of government tax transfer and social security programs.
PREREQUISITE  ECON 212/3.0.

ECON 370/3.0  Urban and Regional Economics  3L
Topics vary from year to year, reflecting the interests of students and the instructor. One-third of the course is devoted to spatial theory and two-thirds to the application of economic theory to such problems as optimal city size, urban public finance, pollution and aesthetics, and housing, transportation and poverty problems in the urban setting.
PREREQUISITE  ECON 212/3.0.

ECON 371/3.0  Economics of Regulation  3L
Examines regulated industries such as electrical utilities, communication, transportation and agriculture. Addresses traditional questions relating to pricing rules and some recent work in political economy that attempts to explain why society has adopted the particular form of intervention that has occurred.
PREREQUISITE  ECON 212/3.0.
ECON 390/3.0  Natural Resource Economics  3L
The study of the exploitation and conservation of natural resources such as fisheries, forestry, minerals and energy, and the implications for public policy using tools of economic analysis. Issues relating to the quality of the environment and role of natural resources in the growth and development of the economy are also emphasized. PREREQUISITE  ECON 212/3.0.

ECON 391/3.0  Topics in Environmental Economics  3L
This course provides a solid understanding of the economic causes and consequences of environmental problems and suggests practical solutions. Microeconomic analysis is used to help address a range of issues related to the environment. Likely topics include global environmental problems, sustainable development, environmental law, strategic models of regulation, environmental ethics, and bioeconomic models. PREREQUISITE  ECON 212/3.0.

ECON 411/3.0  Topics in Microeconomic Theory  3L
Content varies from year to year. Game theory, risk, and externalities are among the topics covered in recent years. PREREQUISITE  ECON 310/3.0.

ECON 421/3.0  Topics in Macroeconomic Theory  3L
An advanced discussion of selected topics in macroeconomic theory, policy, and evidence. Analysis uses: two-period models; linear, rational expectations models; overlapping generations models; and the neoclassical growth model. These methods are applied to such topics as: asset-pricing; hyperinflation; exchange-rate overshooting; Ricardian equivalence; international evidence on sources of economic growth. Detailed reference is made to empirical evidence. PREREQUISITES  ECON 310/3.0 and ECON 320/3.0.

ECON 422/3.0  Monetary Economics  3L
Topics in monetary theory and policy, depending upon the interests of the instructor and students. Examples include the foundations of monetary theory; money supply and demand; portfolio choice; monetary aspects of the balance of payments; money and economic growth; financial markets; the term structure of interest rates. PREREQUISITES  ECON 310/3.0 and ECON 320/3.0.

ECON 423/3.0  Topics in Financial Economics  3L
Selected topics in financial economics. Topics may include: the microeconomics of banking; pricing of financial instruments; risk management and financial markets infrastructure; financial choices under uncertainty and general equilibrium. Students are directed to the undergraduate website for a detailed description yearly. PREREQUISITES  ECON 310/3.0 and ECON 322/3.0. COREQUISITE  ECON 351/3.0.

ECON 425/3.0  International Trade Theory and Policy  3L
A rigorous treatment of the major issues in international trade theory, using mainly geometrical tools. There is also emphasis on empirical testing of various hypotheses. The major topics covered are the determinants of international trade patterns, commercial policy issues, trade and economic growth and regional integration. PREREQUISITE  ECON 310/3.0.

ECON 426/3.0  International Macroeconomics  3L
The study of international capital flows, sovereign debt, and international risk-sharing; real exchange rates and international goods pricing; topics in international finance such as exchange-rate modeling and speculative attacks; and policy topics such as fiscal and monetary policy effects and exchange-rate regime choice. PREREQUISITES  ECON 310/3.0 and ECON 320/3.0.

ECON 430/3.0  Issues in Economic History  3L
An advanced course in economic history that explores a selection of topics debated in the literature. An emphasis is placed on the use of economic analysis to deal with historical issues. The topics vary from year to year and usually concern mainly, but not exclusively, North America. PREREQUISITES  3.0 units from ECON 231/3.0; ECON 232/3.0; ECON 331/3.0; ECON 332/3.0. COREQUISITES  ECON 310/3.0 and ECON 351/3.0.
ECON 435/3.0 Development Economics 3L
Microeconomic issues: land, labor, credit, and insurance markets; duality; alternate views of the role and evolution
of non-market institutions in the development process. Macroeconomic issues: urban migration; inequality and
development; population growth and technical change; internal factor accumulation versus TFP growth. Offered
concurrently with ECON 835/3.0.
PREREQUISITES ECON 239/3.0 and ECON 310/3.0 and permission of the Department.
COREQUISITE ECON 351/3.0.

ECON 437/3.0 Cost-Benefit Analysis 3L
A course covering the techniques and applications of cost-benefit analysis and project evaluation. Topics include the
foundations of cost-benefit analysis; investment decision rules; the social discount rate; risk and uncertainty; and the
shadow pricing of inputs. Objectives such as income distribution and macro-economic goals are also considered.
Offered concurrently with ECON 837/3.0.
PREREQUISITES ECON 255/3.0 and ECON 310/3.0 and permission of the Department.

ECON 440/3.0 Public Economics 3L
The study of public goods, redistribution of income, and taxation, with emphasis on efficiency and equality as
criteria for decision-making in the public sector.
PREREQUISITE ECON 310/3.0.

ECON 442/3.0 Topics in Public Economics 3L
Selected topics in the theory of public economics and related policy questions. Content varies from year to year. Topics
may include: the role of asymmetric information in public economics, tax policy, design of redistributive programs,
fiscal federalism, and selected aspects of Canadian public policy. Students are directed to the undergraduate website for
a detailed description.
PREREQUISITE ECON 310/3.0.

ECON 443/3.0 Issues in Microeconomic Policy 3L
Selected topics in microeconomic policy. Topics may include: climate change, health economics, national security
(defense economics), globalization and/or regional development, and demographic change. Students are directed to the
undergraduate website for a detailed description.
PREREQUISITE ECON 310/3.0.

ECON 445/3.0 Industrial Organization and Public Policy 3L
An analysis of industry structure, conduct and performance in the Canadian economy, including the major features
and current issues of competition policy.
PREREQUISITE ECON 310/3.0.

ECON 450/3.0 Advanced Econometrics 3L
Estimation methods, including least squares and maximum likelihood; specification testing, including t, F,
likelihood ratio and Lagrange multiplier tests; serial correlation and heteroskedasticity; dynamic models and
simultaneous equation models. Extensive use of calculus and linear algebra. Offered concurrently with ECON
852/3.0.
PREREQUISITES ECON 351/3.0 and ECON 452/3.0 and permission of the Department.

ECON 452/3.0 Applied Econometrics 3L
Emphasizes problems in specifying and estimating econometric models, methods available for detecting and
handling these problems, and economic applications. Extensive use of matrix algebra.
PREREQUISITES ECON 255/3.0 and (ECON 351/3.0 or STAT 361/3.0).

ECON 455/3.0 Mathematical Economics 3L
Applications of mathematics in economic analysis. Topics covered will generally include a review of optimization
techniques as applied to consumer and producer theory, comparative statics, the envelope theorem, duality theory,
welfare economics and general equilibrium theory. Optimization techniques to be covered will include nonlinear and
dynamic programming. Offered concurrently with ECON 855/3.0.
PREREQUISITES ECON 255/3.0 and ECON 310/3.0 and permission of the Department.
Seminars in Microeconomics

Series of seminar courses, topics in microeconomics. Evaluation based on presentations, formal/informal participation and written papers. Offerings vary from year to year with staff availability. Topics announced in advance of course selection and available on the Undergraduate webpage.

NOTE Fourth year ECON Medial students with fewer than 30.0 ECON units should contact the department directly to obtain permission to register in this course.

PREREQUISITE Level 4 and (a minimum cumulative GPA of 1.90) and (a minimum GPA of 2.60 in 30.0 units of ECON) and (9.0 units from ECON 255/3.0; ECON 310/3.0; ECON 320/3.0; ECON 351/3.0).

EXCLUSION No more than 3.0 units from ECON 480-499/3.0.

ECON 490/3.0, 491/3.0, 492/3.0, 493/3.0, 494/3.0, 495/3.0, 496/3.0, 497/3.0, 498/3.0, 499/3.0 Seminars in Macroeconomics

Series of seminar courses, topics in macroeconomics. Evaluation based on presentations, formal/informal participation and written papers. Offerings vary from year to year with staff availability. Topics announced in advance of course selection and available on the Undergraduate webpage.

NOTE Fourth year ECON Medial students with fewer than 30.0 ECON units should contact the department directly to obtain permission to register in this course.

PREREQUISITE Level 4 and (a minimum cumulative GPA of 1.90) and (a minimum GPA of 2.60 in 30.0 units of ECON) and (9.0 units from ECON 255/3.0; ECON 310/3.0; ECON 320/3.0; ECON 351/3.0).

EXCLUSION No more than 3.0 units from ECON 480-499/3.0.

ECON 590/6.0 Thesis

Optional for those in the B.A.(Honours) program with a major concentration in Economics or Applied Economics. The thesis is a major research paper to be undertaken with supervision of a faculty adviser. The thesis proposal should be presented to the Department by 31 October in the graduating year and a completed thesis must be submitted to the Department by the end of the Winter Session in the graduating year.

NOTE Enrolment is limited.

PREREQUISITES Permission of the Department. Level 4 and registration in an ECON or APEC plan.
ENGL 100/6.0  Introduction to Literary Study  2L; 1T
An introduction to literary study, with an emphasis on the formal analysis of a diverse range of poetry and prose. Specific content and approach vary from section to section, but all sections share the goals of developing sensitivity to genre, cultivating writing skills, and providing students with a set of literary terms and critical techniques as a foundation for further literary study.
NOTE Enrolment preference is given to first-year students.
EXCLUSION No more than 6.0 units from: ENGL 100/6.0; ENGL 110/6.0; ENGL 112/6.0; ENGL 160/6.0.

ENGL 160/6.0  Modern Prose Fiction  3L
This course is designed to promote interest in and understanding of modern prose fiction by introducing students to a selection of the best novels and short stories of the 20th century. British, American, and Canadian authors are represented.
NOTE Enrolment is limited to students not registered in an ENGL Plan, and preference is given to upper-year students. This course may not be used as a foundation for an ENGL Plan or a prerequisite for upper-year ENGL courses.
EXCLUSION No more than 6.0 units from: ENGL 100/6.0; ENGL 110/6.0; ENGL 112/6.0; ENGL 160/6.0.

ENGL 200/6.0  History of Literature in English  3L
An historical survey of literature from the British Isles and beyond. Through the study of representative works, the course aims to familiarize students with the characteristics of literary periods from the Middle Ages to the present.
NOTE Enrolment preference is given to students registered in ENGL Plans.
PREREQUISITE A grade of C in ENGL 100/6.0.
EXCLUSION No more than 6.0 units from ENGL 110/6.0; ENGL 200/6.0.

ENGL 201/3.0  English Bibles and English Literature  3L
A study of the Bible in English from the Anglo-Saxon period to 1611 and of the use of biblical narrative, allusion and symbolism by selected English writers.
PREREQUISITE A grade of C in ENGL 100/6.0 or (registration in a RELS Plan).

ENGL 206/3.0  History of the English Language  3L
A survey history of the English language from its origins in proto-Indo-European to the variety of contemporary world Englishes, with special emphasis on English as a language of literature.
PREREQUISITE A grade of C in ENGL 100/6.0 or (registration in a LING Plan).

ENGL 211/6.0  Medieval European Literature  3L
Introduction to the literature of Britain and Western Europe from the tenth to the fifteenth centuries. Non-English works are read in translation; some training in Middle English is provided. Readings may include romance, troubadour poetry, history and pseudo history, drama, women’s writing, and authors such as Dante, Boccaccio, and Chaucer.
PREREQUISITE A grade of C in ENGL 100/6.0 or (registration in a MDVL Minor Plan).

ENGL 215/6.0  Canadian Literature  3L
A survey of Canadian literature in English from its beginnings to the contemporary period. Readings will include poetry, short fiction and nonfiction, as well as novels from various eras; authors to be studied may include Moodie, Atwood, Klein, Richler, Callaghan, Ondaatje, Laurence, Munro, Brand, and King.
PREREQUISITE A grade of C in ENGL 100/6.0.
EQUIVALENCY ENGL 280/6.0.

ENGL 216/6.0  American Literature  3L
A survey of American prose and poetry from the Puritans to the present.
PREREQUISITE A grade of C in ENGL 100/6.0.
EQUIVALENCY ENGL 275/6.0.
ENGL 217/6.0 Postcolonial Literatures 3L
A comparative survey of representative works of literature from around the globe (including Africa, Australia, the Caribbean, and the Indian subcontinent) that engage with the history and legacy of colonialism. Themes under consideration may include: cultural memory; economic underdevelopment; hybrid identity; linguistic diversity; political resistance.
PREREQUISITE A grade of C in ENGL 100/6.0 or (registration in a DEVS Plan).
EQUIVALENCY ENGL 282/6.0

ENGL 219/6.0 Introduction to World Literatures 3L
Major works of prose fiction, drama, and poetry from antiquity to the present, with emphasis on works and traditions outside of the English-speaking world (all readings in English or English translation).
PREREQUISITE A grade of C in ENGL 100/6.0.
EXCLUSION No more than 6.0 units from ENGL 112/6.0; ENGL 219/6.0

ENGL 222/3.0 Selected Women Writers I 3L
A survey of women writers from before 1900. Historical focus of course may vary from year to year; for detailed information, consult the Department.
NOTE Also offered as a distance course. Consult Continuing and Distance Studies. When offered as a distance course, it is focused on nineteenth-century women writers in English.
PREREQUISITE A grade of C in ENGL 100/6.0 or (registration in a GNDS Plan).
EQUIVALENCY ENGL 205/3.0

ENGL 223/3.0 Selected Women Writers II 3L
A survey of women writers from after 1900. Geographical focus of course may vary from year to year; for detailed information, consult the Department.
NOTE Also offered as a distance course. Consult Continuing and Distance Studies. When offered as a distance course, it is focused on English, American and Canadian women writers of the twentieth century.
PREREQUISITE A grade of C in ENGL 100/6.0 or (registration in a GNDS Plan).
EQUIVALENCY ENGL 265/3.0

ENGL 230/6.0 Special Studies in Genre 3L
For detailed information, consult the Department.
PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 231/3.0 Special Topics in Genre I 3L
For detailed information, consult the Department.
PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 232/3.0 Special Topics in Genre II 3L
For detailed information, consult the Department.
PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 234/3.0 The Short Story in English 3L
A study of this relatively modern genre with emphasis on methods of close textual analysis of European, British, and North American texts.
PREREQUISITE A grade of C in ENGL 100/6.0.
EQUIVALENCY ENGL 204/3.0.

ENGL 235/3.0 Life Writing 3L
Life writing includes autobiography, biography, diaries, letters, and memoirs. The aim of this course will be to explore its generic conventions and innovations, to consider the interplay between lived experience and its textual representation, and to examine the social and cultural dimensions of life stories.
PREREQUISITE A grade of C in ENGL 100/6.0.
ENGL 237/3.0  Children’s Literature 3L
A critical study of literature written for children or appropriated by adults for the nursery. The emphasis will be on
distinguishing the characteristics and cultural significance of a variety of works from the medieval to the modern
period.
NOTE   Also offered as a distance course. Consult Continuing and Distance Studies.
NOTE   Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE   A grade of C in ENGL 100/6.0.
EQUIVALENCY   ENGL 207/3.0.

ENGL 244/3.0  Modern British Fiction 3L
A study of modern fiction, including works by such writers as James, Conrad, Ford, Joyce, Woolf.
NOTE   Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE   A grade of C in ENGL 100/6.0.
EXCLUSIONS   No more than 6.0 units from ENGL 244/3.0 (formerly ENGL 261/3.0); ENGL 245/3.0 (formerly
ENGL 262/3.0); ENGL 260/6.0; ENGL 360/6.0
EQUIVALENCY   ENGL 261/3.0.

ENGL 245/3.0  Modern British Poetry and Drama 3L
A study of the form and technique in modern poetry and plays by such writers as Yeats, Eliot, Auden, Shaw,
Beckett.
NOTE   Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE   A grade of C in ENGL 100/6.0.
EXCLUSION   No more than 6.0 units from ENGL 244/3.0 (formerly ENGL 261/3.0); ENGL 245/3.0 (formerly
ENGL 262/3.0); ENGL 260/6.0; ENGL 360/6.0.
EQUIVALENCY   ENGL 262/3.0.

ENGL 251/3.0  Authors in Context: Special Topics I 3L
For detailed information, consult the department.
PREREQUISITE   A grade of C in ENGL 100/6.0.

ENGL 252/3.0  Authors in Context: Special Topics II 3L
For detailed information, consult the department.
PREREQUISITE   A grade of C in ENGL 100/6.0.

ENGL 256/6.0  Shakespeare 3L
A study of Shakespeare’s plays in relation to the social, intellectual, and political climate of the Elizabethan and
Jacobean periods and with reference to theatrical production.
NOTE   Also offered as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE   A grade of C in ENGL 100/6.0.
EXCLUSIONS   No more than 6.0 units from ENGL 256/6.0 (formerly ENGL 226/6.0); ENGL 257/3.0 (formerly
ENGL 227/3.0); ENGL 258/3.0 (formerly ENGL 228/3.0).
EQUIVALENCY   ENGL 226/6.0.

ENGL 257/3.0  Elizabethan Shakespeare 3L
A study of eight of Shakespeare’s plays in relation to the social, intellectual, and political climate of the Elizabethan
period and with reference to theatrical production.
NOTE   Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE   A grade of C in ENGL 100/6.0.
EXCLUSIONS   No more than 6.0 units from ENGL 256/6.0 (formerly ENGL 226/6.0); ENGL 257/3.0 (formerly
ENGL 227/3.0); ENGL 258/3.0 (formerly ENGL 228/3.0).
EQUIVALENCY   ENGL 227/3.0.
ENGL 258/3.0  Jacobean Shakespeare 3L
A study of eight of Shakespeare’s plays in relation to the social, intellectual, and political climate of the Jacobean period and with reference to theatrical production.
NOTE    Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE  A grade of C in ENGL 100/6.0.
EXCLUSION  No more than 6.0 units from ENGL 256/6.0 (formerly ENGL 226/6.0); ENGL 257/3.0 (formerly ENGL 227/3.0); ENGL 258/3.0 (formerly ENGL 228/3.0).
EQUIVALENCY  ENGL 228/3.0.

ENGL 270/6.0  Issues and Themes: Special Studies 3L
For detailed information, consult the Department.
PREREQUISITE  A grade of C in ENGL 100/6.0.

ENGL 271/3.0  Issues and Themes: Special Topics I 3L
For detailed information, consult the Department.
PREREQUISITE  A grade of C in ENGL 100/6.0.

ENGL 272/3.0  Issues and Themes: Special Topics II 3L
For detailed information, consult the Department.
PREREQUISITE  A grade of C in ENGL 100/6.0.

ENGL 273/3.0  Literature and the Fantastic 3L
A study of literature dealing with the fantastic or containing supernatural or uncanny elements. This course may include samples of myth, romance, Gothic literature, and fantasy from a variety of periods.
PREREQUISITE  A grade of C in ENGL 100/6.0.
EQUIVALENCY  ENGL 203/3.0.

ENGL 277/3.0  Literature and Gender 3L
This course will explore how different literary works represent desire, romance, queerness, and other gender-related issues. Particular focus may vary from year to year; for detailed information, consult the Department.
PREREQUISITE  A grade of C in ENGL 100/6.0 or (registration in a GNDS Plan).
EXCLUSION  No more than 1 course from ENGL 277/3.0; ENGL 303/6.0.

ENGL 278/3.0  Literature and Place 3L
A study of English-language literature emphasizing or relating to its sense of place. Course content may vary from year to year.
PREREQUISITE  A grade of C in ENGL 100/6.0.
NOTE    Also offered at the Bader International Study Centre, Herstmonceux. When taught at Herstmonceux, works will be drawn from British and/or Irish literature, and the course will be centred on field study visits to pertinent locations.
EQUIVALENCY  ENGL 208/3.0.

ENGL 281/3.0  Legends of King Arthur: Medieval to Modern 3L
This course investigates the enduring popularity of the legend of Arthur, with an emphasis on its adaptability to the changing values and viewpoints of different cultural moments (Celtic, Medieval, Victorian, Modern). Themes to be investigated may include chivalry, courtly love, the grail quest, national identity, politics and gender relationships.
NOTE    Medieval texts will be read in modern translation.
PREREQUISITE  A grade of C in ENGL 100/6.0.
EQUIVALENCY  ENGL 202/3.0.

ENGL 283/6.0  Contemporary Canadian Literature 3L
A study of particular issues and themes in Canadian literature from the 1970s to the present (e.g., postmodernism, multiculturalism, gender and sexual diversity, class relations, migration).
PREREQUISITE  A grade of C in ENGL 100/6.0.
ENGL 284/3.0  Issues and Themes in Canadian Literature I  3L
A study of one particular issue or theme in Canadian literature. For detailed information, consult the Department.
PREREQUISITE   A grade of C in ENGL 100/6.0.

ENGL 285/3.0  Issues and Themes in Canadian Literature II  3L
A study of one particular issue or theme in Canadian literature. For detailed information, consult the Department.
PREREQUISITE   A grade of C in ENGL 100/6.0.

ENGL 290/3.0  Seminar in Literary Interpretation    3S
An intensive study of one text or a cluster of related texts, cultivating close reading skills through discussion. The course develops students’ writing abilities and also introduces the basic research tools of literary studies.
PREREQUISITE   A grade of C in ENGL 100/6.0 and (registration in a ENGL Major or Medial Plan).

ENGL 292/6.0  Introduction to Literary Criticism and Theory   3L
Emphasizes literary, rhetorical, and critical terminology, the variety of critical approaches, and the ways in which critical practices (e.g., of editing, interpretation, or evaluation) are related to literary theory. Surveys works of literary theory ranging from ancient to contemporary times.
NOTE    Enrolment preference is given to Majors and Medials.
PREREQUISITE   A grade of C in ENGL 100/6.0.

ENGL 304/6.0  Old Norse       3S
An introduction to the language, literature, and culture of medieval Scandinavia in the Viking Age. Fall Term: A rapid survey of Old Icelandic morphology and literary texts in E.V. Gordon’s *Introduction to Old Norse*. Winter term: A complete saga.
NOTE    May be offered jointly with ENGL 822/6.0.
PREREQUISITE   (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 310/6.0  Medieval Literature of the British Isles     3L
A survey of vernacular literature composed in the British Isles before 1500. Readings may be taken from Welsh, Irish, Old English, Norman and Middle English literature and may include such works as *The Mabinogion*, the *Lais* of Marie de France, *Beowulf*, *Sir Gawain and the Green Knight*, and selections from Chaucer.
PREREQUISITE   (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 311/6.0  Middle English Literature     3L
A study of the poetry, drama, and prose of late medieval Britain. Texts are read in Middle English; language training is provided. Readings may include the dramatic cycles, Arthurian romance, Chaucer and his successors, women’s writing, spiritual writing, historiography, and the culture of political and religious dissent.
PREREQUISITE   (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 315/6.0  Romance: Medieval to Early Modern    3L
This course surveys early romance, and particularly chivalric romance, from its first flowering during the twelfth century to the allegorical romance of the early modern period. Writers and works to be read may include Chrétien de Troyes, Marie de France, *Sir Gawain and the Green Knight*, Sir Thomas Malory, Sir Philip Sidney, and Edmundo Spenser.
PREREQUISITE   (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
ENGL 321/6.0  Renaissance Poetry and Prose  3L
A study of Renaissance poetry and prose but excluding drama, with emphasis on the works of Sidney, Spenser, Shakespeare, Donne, and Milton. Such writers as More, Marlowe, Nashe, Jonson, and Bacon may be included.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EXCLUSION  No more than 6.0 units from ENGL 221/6.0; ENGL 321/6.0.

ENGL 326/6.0  Shakespeare and Renaissance Drama  3L
The development of English drama from 1580 to 1642 with emphasis on Shakespeare, but including plays by such writers as Lyly, Greene, Marlowe, Dekker, Jonson, Marston, Beaumont and Fletcher, Webster, and Massinger.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 330/6.0  Restoration and 18th-Century Literature  3L
A study of poetry, drama, and prose of the major writers of the period 1660-1800. Readings will be drawn from the works of writers such as Dryden, Pope, Swift, Johnson, Fielding, and Richardson.
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EQUIVALENCY  ENGL 241/6.0, ENGL 341/6.0.

ENGL 335/6.0  English Drama to 1700  3L
A study of English drama from the medieval to the Restoration period. Emphasis falls on tracing the development of dramatic forms, traditions, and performance practices in relation to socio-cultural history.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EQUIVALENCY  ENGL 345/6.0.

ENGL 336/6.0  Early Modern Prose Fiction  3L
A study of the origins of the English novel from early modern prose romances and satires to the gothic novel. Emphasis falls on tracing the development of narrative forms and their relation to socio-cultural history.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EQUIVALENCY  ENGL 346/6.0.

ENGL 340/6.0  Romantic Literature  3L
An intensive study of the Romantics with emphasis on the works of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EQUIVALENCY  ENGL 250/6.0, ENGL 350/6.0.

ENGL 347/6.0  American Literature and the Long 19th Century  3L
American literature after the Revolution was arguably the first postcolonial literature in English. Through the study of literature in many genres, this course will explore relationships between innovation and tradition, and between the nation and its others, over the course of the long nineteenth century (roughly 1780 to 1920).
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 349/6.0  19th-Century Transatlantic Literature  3L
A study of nineteenth-century literature from both sides of the Atlantic. This course will explore cultural transactions between Europe and the Americas from the late eighteenth to the early twentieth century, with special attention to the transatlantic dimension of literary movements such as Romanticism, Realism, and Modernism.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
ENGL 351/6.0  Victorian Literature 3L
An exploration of the relationship between Victorian literature and culture. This course will examine novels, poems, and essays written between 1830 and 1900 with attention to their particular literary, historical, and social contexts.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EQUIVALENCY ENGL 255/6.0, ENGL 355/6.0.

ENGL 352/6.0  Romance and Gothic 3L
A course emphasizing romance and gothic traditions, beginning with the scholarly revival of romance in the mid-eighteenth century and culminating with modern gothic of the late-nineteenth century.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 356/6.0  British Fiction of the 19th Century 3L
A study of British nineteenth-century fiction featuring selected writers from Jane Austen to Thomas Hardy.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 357/6.0  19th-Century British Literature and Visual Culture 3L
A study of the relationship between literary texts and the burgeoning visual culture of the period. Representative visual forms might include book illustration and design, painting, photography, and commercial advertisement.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (A GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 360/6.0  Modern British Literature 3L
A study of poetry, prose, and drama from the late nineteenth century to the mid-twentieth century.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EXCLUSION No more than 6.0 units from ENGL 244/3.0 (formerly ENGL 261/3.0); ENGL 245/3.0 (formerly ENGL 262/3.0); ENGL 260/6.0; ENGL 360/6.0.

ENGL 365/6.0  Modern and Contemporary Poetry 3L
A study of poetry from the twentieth and twenty-first centuries.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 369/6.0  Modern and Contemporary Prose Fiction 3L
A study of prose fiction from the twentieth and twenty-first centuries.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 370/6.0  Contemporary Literature 3L
A study of prose, and drama from the mid-twentieth century to the present.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EQUIVALENCY ENGL 269/6.0.

ENGL 375/6.0  American Literature 3L
Studies in modern and/or contemporary American fiction, poetry, and drama.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EXCLUSION No more than 6.0 units from ENGL 375/6.0; ENGL 470/6.0.
ENGL 380/6.0  Literature and Culture in Canada  3L
Studies in Canadian fiction, poetry, and literary criticism in relation to recurring concerns within Canadian cultural history.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 382/6.0  Postcolonial Literatures in Context  3L
Studies in literature from a specific nation or region of the postcolonial world (such as South Africa, West Africa, Australia, the Caribbean, South Asia). Content will vary, but the aim will be to explore the cultural and historical contexts that inform literary production in the particular nation or region under study.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 389/6.0  Context North America  3L
A study of modern and/or contemporary North American literatures (which may include some works in translation). Content will vary, but the aim will be to discern how cultural similarities and differences are reflected in individual works by writers from (e.g.) Canada, the United States, and the Caribbean.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 405/6.0  Studies in Old English Language and Literature  3S
An introduction to Old English (the language of the Anglo-Saxon period), and to Old English poetry and prose, including Beowulf.
NOTE  May be offered jointly with ENGL 820/6.0.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EQUIVALENCY  ENGL 305/6.0.

ENGL 410/6.0  Studies in Medieval Literature  3S
For detailed information, consult the Department.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 411/3.0  Topics in Medieval Literature I  3S
For detailed information, consult the Department.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EXCLUSION  No more than 6.0 units from ENGL 312/3.0; ENGL 313/3.0; ENGL 411/3.0; ENGL 412/3.0.

ENGL 412/3.0  Topics in Medieval Literature II  3S
For detailed information, consult the Department.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EXCLUSION  No more than 6.0 units from ENGL 312/3.0; ENGL 313/3.0; ENGL 411/3.0; ENGL 412/3.0.

ENGL 420/6.0  Studies in Renaissance Literature  3S
For detailed information, consult the Department.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 421/3.0  Topics in Renaissance Literature I  3S
For detailed information, consult the Department.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EXCLUSION  No more than 6.0 units from ENGL 323/3.0; ENGL 328/3.0; ENGL 421/3.0; ENGL 422/3.0.
ENGL 422/3.0  Topics in Renaissance Literature II  3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).
EXCLUSION  No more than 6.0 units from ENGL 323/3.0; ENGL 328/3.0; ENGL 421/3.0; ENGL 422/3.0.

ENGL 430/6.0  Studies in Restoration and 18th-Century Literature 3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).

ENGL 431/3.0  Topics in Restoration and 18th-Century Literature I  3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).
EXCLUSION  No more than 6.0 units from ENGL 342/3.0; ENGL 343/3.0; ENGL 431/3.0; ENGL 432/3.0.

ENGL 432/3.0  Topics in Restoration and 18th-Century Literature II  3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).
EXCLUSION  No more than 6.0 units from ENGL 342/3.0; ENGL 343/3.0; ENGL 431/3.0; ENGL 432/3.0.

ENGL 435/6.0  Group I: Special Studies  3S
Studies in literary topics focused on the period before 1800 that do not fit within the established Group I rubrics
(Medieval, Renaissance, Restoration/18th Century). For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).

ENGL 436/3.0  Group I: Special Topics I  3S
Studies in literary topics focused on the period before 1800 that do not fit within the established Group I rubrics
(Medieval, Renaissance, Restoration/18th Century). For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).

ENGL 437/3.0  Group I: Special Topics II  3S
Studies in literary topics focused on the period before 1800 that do not fit within the established Group I rubrics
(Medieval, Renaissance, Restoration/18th Century). For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).

ENGL 440/6.0  Studies in Romanticism  3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).

ENGL 441/3.0  Topics in Romanticism I  3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).
EXCLUSION  No more than 6.0 units from ENGL 353/3.0; ENGL 354/3.0; ENGL 441/3.0; ENGL 442/3.0.

ENGL 442/3.0  Topics in Romanticism II  3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).
EXCLUSION  No more than 6.0 units from ENGL 353/3.0; ENGL 354/3.0; ENGL 441/3.0; ENGL 442/3.0.

**ENGL 445/6.0  Studies in Literature of the Americas 3S**
Studies of 19th-century literature produced in the Americas (Canada, United States, and elsewhere in the western hemisphere). Geographical focus will vary from year to year. For detailed information, consult the Department.  
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

**ENGL 446/3.0  Topics in Literature of the Americas I 3S**
Studies of 19th-century literature produced in the Americas (Canada, United States, and elsewhere in the western hemisphere). Geographical focus will vary from year to year. For detailed information, consult the Department.  
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

**ENGL 447/3.0  Topics in Literature of the Americas II 3S**
Studies of 19th-century literature produced in the Americas (Canada, United States, and elsewhere in the western hemisphere). Geographical focus will vary from year to year. For detailed information, consult the Department.  
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

**ENGL 450/6.0  Studies in Victorian Literature 3S**
For detailed information, consult the Department.  
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

**ENGL 451/3.0  Topics in Victorian Literature I 3S**
For detailed information, consult the Department.  
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).  
EXCLUSION  No more than 6.0 units from ENGL 358/3.0; ENGL 359/3.0; ENGL 451/3.0; ENGL 452/3.0.

**ENGL 452/3.0  Topics in Victorian Literature II 3S**
For detailed information, consult the Department.  
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).  
EXCLUSION  No more than 6.0 units from ENGL 358/3.0; ENGL 359/3.0; ENGL 451/3.0; ENGL 452/3.0.

**ENGL 455/6.0  Group II: Special Studies 3S**
Studies in literary topics focused on “the long nineteenth century” that do not fit within the established Group II rubrics (Romantic Literature, Victorian Literature, Literature of the Americas). For detailed information, consult the Department.  
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

**ENGL 456/3.0  Group II: Special Topics I 3S**
Studies in literary topics focused on “the long nineteenth century” that do not fit within the established Group II rubrics (Romantic Literature, Victorian Literature, Literature of the Americas). For detailed information, consult the Department.  
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

**ENGL 457/3.0  Group II: Special Topics II 3S**
Studies in literary topics focused on “the long nineteenth century” that do not fit within the established Group II rubrics (Romantic Literature, Victorian Literature, Literature of the Americas). For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 460/6.0     Studies in Modern/Contemporary British Literature     3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 461/3.0     Topics in Modern/Contemporary British Literature I     3S
For detailed information, consult the Department
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EXCLUSION No more than 6.0 units from ENGL 361/3.0; ENGL 362/3.0; ENGL 461/3.0; ENGL 462/3.0.

ENGL 462/3.0     Topics in Modern/Contemporary British Literature II     3S
For detailed information, consult the Department
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EXCLUSION No more than 6.0 units from ENGL 361/3.0; ENGL 362/3.0; ENGL 461/3.0; ENGL 462/3.0.

ENGL 464/6.0     Literary Modernism     3S
A study of the theory and practice of modernist writers in Britain and North America. Texts will include theoretical manifestoes as well as creative writing. Some attention will be given to the modernist movement in other arts.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (A GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

EQUIVALENCY ENGL 366/6.0

ENGL 465/6.0     Studies in Modern/Contemporary Canadian Literature     3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 466/3.0     Topics in Modern/Contemporary Canadian Literature I     3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EXCLUSION No more than 6.0 units from ENGL 385/3.0; ENGL 386/3.0; ENGL 466/3.0; ENGL 467/3.0.

ENGL 467/3.0     Topics in Modern/Contemporary Canadian Literature II     3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EXCLUSION No more than 6.0 units from ENGL 385/3.0; ENGL 386/3.0; ENGL 466/3.0; ENGL 467/3.0.

ENGL 470/6.0     Studies in Modern/Contemporary American Literature     3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EXCLUSION No more than 6.0 units from ENGL 375/6.0; ENGL 470/6.0.

ENGL 471/3.0     Topics in Modern/Contemporary American Literature I     3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EXCLUSION: No more than 12.0 units from ENGL 367/3.0; ENGL 368/3.0; ENGL 377/3.0; ENGL 378/3.0; ENGL 471/3.0; ENGL 472/3.0.
ENGL 472/3.0  Topics in Modern/Contemporary American Literature II  3S
For detailed information, consult the Department.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).
EXCLUSION: No more than 12.0 units from ENGL 367/3.0; ENGL 368/3.0; ENGL 377/3.0; ENGL 378/3.0; ENGL
471/3.0; ENGL 472/3.0.

ENGL 475/6.0  Studies in Postcolonial Literatures  3S
For detailed information, consult the Department.

ENGL 476/3.0  Topics in Postcolonial Literatures I  3S
For detailed information, consult the Department.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).
EXCLUSION  No more than 6.0 units from ENGL 383/3.0; ENGL 384/3.0; ENGL 476/3.0; ENGL 477/3.0.

ENGL 477/3.0  Topics in Postcolonial Literatures II  3S
For detailed information, consult the Department.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).
EXCLUSION  No more than 6.0 units from ENGL 383/3.0; ENGL 384/3.0; ENGL 476/3.0; ENGL 477/3.0.

ENGL 480/6.0  Studies in Indigenous Literatures  3S
For detailed information, consult the Department.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).

ENGL 481/3.0  Topics in Indigenous Literatures I  3S
For detailed information, consult the Department.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).
EXCLUSION  No more than 6.0 units from ENGL 381/3.0; ENGL 388/3.0; ENGL 481/3.0; ENGL 482/3.0.

ENGL 482/3.0  Topics in Indigenous Literatures II  3S
For detailed information, consult the Department.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).
EXCLUSION  No more than 6.0 units from ENGL 381/3.0; ENGL 388/3.0; ENGL 481/3.0; ENGL 482/3.0.

ENGL 485/6.0  Group III: Special Studies  3S
Studies focused on Modern and Contemporary literature that do not fit within the established Group III rubrics
(British, Canadian, American, Postcolonial, Indigenous). For detailed information, consult the Department.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).

ENGL 486/3.0  Group III: Special Topics I  3S
Studies focused on Modern and Contemporary literature that do not fit within the established Group III rubrics
(British, Canadian, American, Postcolonial, Indigenous). For detailed information, consult the Department.
PREREQUISITE  (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).
ENGL 487/3.0  Group III: Special Topics II  3S
Studies focused on Modern and Contemporary literature that do not fit within the established Group III rubrics (British, Canadian, American, Postcolonial, Indigenous). For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 488/3.0  Group III: Special Topics III  3S
Studies focused on Modern and Contemporary literature that do not fit within the established Group III rubrics (British, Canadian, American, Postcolonial, Indigenous). For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 489/3.0  Group III: Special Topics IV  3S
Studies focused on Modern and Contemporary literature that do not fit within the established Group III rubrics (British, Canadian, American, Postcolonial, Indigenous). For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 490/6.0  Studies in Literary Interpretation  3S
Studies in literary topics that cross over the historical boundaries between Groups I, II, and III. For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 491/3.0  Topics in Literary Interpretation I  3S
Studies in literary topics that cross over the historical boundaries between Groups I, II and III. For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 492/3.0  Topics in Literary Interpretation II  3S
Studies in literary topics that cross over the historical boundaries between Groups I, II, and III. For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 493/3.0  Topics in Literary Interpretation III  3S
Studies in literary topics that cross over the historical boundaries between Groups I, II, and III. For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 494/3.0  Topics in Literary Interpretation IV  3S
Studies in literary topics that cross over the historical boundaries between Groups I, II, and III. For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).

ENGL 495/6.0  Studies in Literary Criticism and Theory  3S
Studies in representative critical theories from antiquity onwards, with special emphasis on modern criticism both in its theoretical and practical aspects.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and (registration in an ENGL Major or Medial Plan).
EQUIVALENCY ENGL 393/6.0.
ENGL 496/3.0  Topics in Literary Criticism and Theory I  3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).
EXCLUSION No more than 12.0 units from ENGL 396/3.0; ENGL 397/3.0; ENGL 398/3.0; ENGL 399/3.0;
ENGL 496/3.0; ENGL 497/3.0; ENGL 498/3.0; ENGL 499/3.0.

ENGL 497/3.0  Topics in Literary Criticism and Theory II  3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).
EXCLUSION No more than 12.0 units from ENGL 396/3.0; ENGL 397/3.0; ENGL 398/3.0; ENGL 399/3.0;
ENGL 496/3.0; ENGL 497/3.0; ENGL 498/3.0; ENGL 499/3.0.

ENGL 498/3.0  Topics in Literary Criticism and Theory III  3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).
EXCLUSION No more than 12.0 units from ENGL 396/3.0; ENGL 397/3.0; ENGL 398/3.0; ENGL 399/3.0;
ENGL 496/3.0; ENGL 497/3.0; ENGL 498/3.0; ENGL 499/3.0.

ENGL 499/3.0  Topics in Literary Criticism and Theory IV  3S
For detailed information, consult the Department.
PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.60 from 18.0 units in ENGL) and
(registration in an ENGL Major or Medial Plan).
EXCLUSION No more than 12.0 units from ENGL 396/3.0; ENGL 397/3.0; ENGL 398/3.0; ENGL 399/3.0;
ENGL 496/3.0; ENGL 497/3.0; ENGL 498/3.0; ENGL 499/3.0.

ENGL 590/3.0  Honours Essay
A critical essay of at least 7500 words on a topic of the student’s choice, written under the supervision of a faculty
member. For additional information, students should consult the Department, preferably in the spring of their third
year. Open only to students in the final year of a Major or Medial Plan in English.
PREREQUISITE Permission of the Department and (a minimum GPA of 3.50 in 24.0 previous English units). The
3.50 GPA requirement may be waived in exceptional cases by request of the essay’s faculty supervisor.
ENSC 200/3.0  Environmental History  2L;1S
A history of the relations between humans and nature through time, with special emphasis on how science has influenced how we perceive our place in nature, and how we define and understand environmental issues.
NOTE  Field trip: estimated cost $20.
EXCLUSION  No more than 3.0 units from ENSC 200/3.0; HIST 257/3.0.

ENSC 201/3.0  Environmental Toxicology and Chemical Risks  2L;1S
Introduction to global issues and problems in environmental toxicology. Possible topics include waste disposal, pesticides, chemical warfare, pulp and paper mills and genetically modified foods. This course will be of interest to students with either a science or a humanities background.
NOTE  Field trip: estimated cost $20.

ENSC 203/3.0  Explorations in Environmental Studies  3L
An interdisciplinary approach to complex environmental problems, and the formulation of decisions relevant to environmental management and conservation. The course emphasizes the importance of comprehending the diverse contributions of the humanities, social sciences and natural sciences regarding human/environment interactions, and the challenges of building interdisciplinary approaches.
PREREQUISITE  Level 2 or above.
COREQUISITE  BIOL 102/3.0 or BIOL 111/3.0.

ENSC 290/3.0  Introduction to Ecological Economics  3L
This course includes a combination of lectures, assignments and case studies that are designed to introduce students to the ecological critique of the standard neo-classical economic analysis of environmental degradation and depletion. Students will also be asked to consider the more holistic approach to calculating the costs and benefits of economic activity proposed by ecological economists.
NOTE  This course may not be used towards the requirements of an ECON Plan.

ENSC 301/3.0  Environmental Assessment  2L;1S
Lecture/seminar course that focuses on assessing the ecological value of natural heritage features such as wetlands and wildlife habitat, and their sensitivity to anthropogenic impacts, all within the context of the planning process, and federal and provincial legislation.
NOTE  Field trip: estimated cost $60.
PREREQUISITE  Level 2 or above
EQUIVALENCY  ENSC 401/3.0.

ENSC 305/3.0  Environmental Sociology  2L;1S
Examines the evolution and paradigms of environmental sociology, develops an understanding of the relationship between humans and nature, considers the social basis of environmental concern, probes environmental studies within the context of knowledge and language, and explores principles of sustainable development and “Green Social Theory”.
PREREQUISITE  Level 3 or above, or permission of the School.

ENSC 307/3.0  Marine Environmental Issues  3L
Marine issues such as fisheries and aquaculture, climate change, oil and gas development, shipping, coastal development and marine protected areas will be explored in the context of factors that create environmental problems and the steps that are being taken to solve them. Assignments are modeled on real-world examples to develop skills for creating positive change to promote sustainable practices. This course will be highly complementary to other courses in Oceanography or Limnology (GEOL 200/3.0, BIOL 335/3.0, GPHY 303/3.0).
NOTE  Field trip: estimated cost $35.
PREREQUISITE  Level 3 or above, or permission of the School.
ENSC 310/3.0  Environmental Policy  2L;1S
This course introduces political science and public policy within the context of environmental politics, policy, and administration, the institutional context of environmental policy-making, the parliamentary tradition and Canadian federalism. Canadian environmental policies and a field trip to Toronto or Ottawa will be used to illustrate the theory.
NOTE Field trip: estimated cost $20.
PREREQUISITE Level 3 or above, or permission of the School.

ENSC 315/3.0  Global Food Security, Agriculture, and Environment  2L;1T
National and global review of current and projected adequacy of food supplies, as affected by soil and water resources, climate and climate change, and human population growth. Reviews different scenarios for meeting food needs over the next 50 years, including technological, social, economic, and political factors.
PREREQUISITE Level 3 or above.

ENSC 320/3.0  Wildlife Issues in a Changing World  3L
A lecture/seminar course focusing on the notion of wildlife; laws governing wildlife protection and use; the effects of overexploitation, habitat destruction, and introduced species, and management plans and strategies.
PREREQUISITE Level 3 or above.

ENSC 321/3.0  Environmental Justice in Global Context  3L
Examines the socially uneven effects across race, class, gender and nation of environmental problems such as toxic waste disposal, air pollution, climate change, deforestation and environmental disasters and the responses to them from local to global movements, protests and politics.
PREREQUISITE ENSC 203/3.0 or GNDS 212/3.0 or DEV 230/3.0 or permission of the School.

ENSC 325/3.0  Ecotoxicology  2L;1T
An exploration of the interactions among chemical exposure, toxicity to individual organisms, and effects on ecosystem structure and function. Mechanisms of toxicity will be linked to effects at different levels of organization up to the level of the ecosystem, using case studies to explore the complexities of exposure and response.
NOTE Field trip: estimated cost $50.
PREREQUISITES ENSC 201/3.0 and BIOL 201/3.0 and BIOL 202/3.0 and CHEM 112/6.0 or CHEM 116/6.0 or permission of the School.

ENSC 390/3.0  Sustainability  2L;1S
The concept of sustainability provides a focus for discussing global and regional environmental issues in the broadest possible perspective. This course will examine the meaning of sustainability and ways in which it is assessed at various levels including individual lifestyles, ecological, agricultural and industrial systems, urban areas, regions within countries, nations, and the world as a whole. Case studies will be used to illustrate the general principles.
PREREQUISITE Level 3 or above.

ENSC 407/3.0  Global Water Issues  2L;1S
Increasing demands on water resources and widespread pollution of surface and groundwater has led many experts to predict a looming water crisis. This course will develop a global perspective on issues that include water distribution, management, pollution, conservation, conflict and policy. This course will be of interest to students in science, applied science or the humanities.
NOTE Field trip: estimated cost $50.
PREREQUISITE Level 3 or above.

ENSC 420/3.0  Gender and Environments  3L
This course considers feminist approaches to environmental issues in western and non-western contexts, with attention to both theories and activism.
NOTE This course is recommended for students in Environmental Studies, Gender Studies, Development Studies or Health Studies.
PREREQUISITE Level 3 or above.
ENSC 430/6.0  
**Honours Projects in Environmental Sustainability**  
2L;1S  
Interdisciplinary study of the scientific, socio-political, and economic aspects of selected local, national, or global issues related to environmental sustainability. Teamwork is emphasized.  
NOTE  One full-day weekend field trip: estimated cost $20.  
PREREQUISITE  Level 4 and registration in an ENSC Major, ENVS Medial, EBIO, ECHM, Egeo, EGPy, ELSc or ETOX Plan or permission of the School.  
EXCLUSION  No more than 1 course from ENSC 410/3.0; ENSC 430/6.0

ENSC 471/3.0  
**Environmental Analysis Methods**  
30L; 40P; 2 wks.  
Two weeks of intensive study in Environmental Analysis. Fundamentals of sample collection and preparation, including statistics and extraction methods, plus instrumental techniques including chromatography, atomic spectroscopy, spectrophotometry, and automated analysis techniques. Laboratory experiments in each of these areas. Enrolment limited. Offered in Spring Term only.  
NOTE  Field trip: estimated cost $15.  
PREREQUISITE  CHEM 213/3.0 or CHEM 278/3.0, or permission of the School.  
EXCLUSION  No more than 3.0 units from CHEM 321/3.0; ENSC 471/3.0.  
EQUIVALENCY  ENSC 371/3.0

ENSC 480/3.0  
**Special Topics in Environmental Science I**  
3L/S  
This course will provide intensive coverage of a topic that is current and/or of special interest in Environmental Science. The course will be multidisciplinary, but with a science focus. Offered periodically by visiting professors or members of faculty. The topic for each year will be announced in advance of course selection and will be made available on the ENSC web page. Students are advised to consult with their academic counsellor and/or the course instructor prior to registration.  
PREREQUISITE  Level 3 and registration in an ENSC Major, ENVS Medial, EBIO, ECHM, Egeo, EGPy, ELSc or ETOX Plan or permission of the School.

ENSC 481/3.0  
**Special Topics in Environmental Science II**  
3L/S  
This course will provide intensive coverage of a topic that is current and/or of special interest in Environmental Science. The course will be multidisciplinary, but with a science focus. Offered periodically by visiting professors or members of faculty. The topic for each year will be announced in advance of course selection and will be made available on the ENSC web page. Students are advised to consult with their academic counsellor and/or the course instructor prior to registration.  
PREREQUISITE  Level 3 and registration in an ENSC Major, ENVS Medial, EBIO, ECHM, Egeo, EGPy, ELSc or ETOX Plan or permission of the School.

ENSC 482/3.0  
**Special Topics in Environmental Studies**  
3L/S  
This course will provide intensive coverage of a topic that is current and/or of special interest in Environmental Studies. The course will cover mainly social science-based material, but will be multidisciplinary. Offered periodically by visiting professors or members of faculty. The topic for each year will be announced in advance of course selection and will be made available on the ENSC web page. Students are advised to consult with their academic counsellor and/or the course instructor prior to registration.  
PREREQUISITE  Level 3 and registration in an ENSC Major, ENVS Medial, EBIO, ECHM, Egeo, EGPy, ELSc or ETOX Plan or permission of the School.

ENSC 490/3.0  
**The Economics of Sustainable Development**  
2L;1S  
This course adopts a quantitative approach to the definition, measurement and assessment of sustainable development. The combination of lectures, seminars, and directed studies is intended to accommodate a broad range of student interest and experience. Firm specific, policy specific and nation specific case studies may be considered.  
PREREQUISITES  ENSC 290/3.0 or ECOn 290/3.0, or permission of the School.
ENSC 501/6.0  Independent Environmental Study
Independent study of an environmental topic by individuals or inter-disciplinary groups; groups to select one topic and integrate their disciplinary perspectives in a team report. Topics will be selected and groups formed in consultation with the instructor.
NOTE  Enrolment is limited.
PREREQUISITE  Level 4 and permission of the instructor.

ENSC 502/2.0  Research project in Sustainability  2L
This is an interdisciplinary research project related to environmental sustainability, with supervision and training in appropriate research methods by faculty members of the School of Environmental Studies. The course includes supervised research including a research proposal, a seminar, a poster presentation and a final thesis and oral defence.
PREREQUISITE  Level 4 and permission of the instructor.
EPID 301/3.0  **Principles of Epidemiology**  3L
Basic methods involved in researching the distribution and determinants of health/disease in populations. Core principles of epidemiology are examined, as are the various epidemiological approaches to study design. The latter include descriptive (cross-sectional and ecological), observational (case-control and cohort), and experimental (randomized controlled trials) approaches.
PREREQUISITE  COMM 162/3.0; ECON 250/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 261/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0 or permission of the Department of Biomedical and Molecular Sciences.

EPID 401/3.0  **Biostatistical Data Analysis for Life Science Students**  3L:2P
An applied statistics course covering practical topics in tests and confidence intervals for single and multiple samples, ANOVA, linear regression, correlations, methods for categorical data, and nonparametric methods. SPSS package is used in the lab. The course emphasizes analyzing data arising in life sciences using practical statistical methods.
PREREQUISITE  COMM 162/3.0; ECON 250/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 261/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3. and (Level 4 and registration in a LISC Major or Specialization Plan) and (a GPA of 2.5).

EPID 499/9.0  **Research Project in Epidemiology**  10P;2T
An examination of an epidemiological research question chosen by the student with guidance from the supervisor. Project will involve review of the literature, development of a proposal, data collection and/or processing, data analysis, a written report and oral presentation. Students will be required to attend and report on seminars of their choosing from a number of venues across campus. Limited enrolment.
NOTE  Students whose research requires the care and/or handling of animals must also register in LISC 488/0.0.
PREREQUISITES  (EPID 301/3.0 or HLTH 323/3.0) and (Level 4 and registration in the LISC Specialization Plan) and (a GPA of 2.5) or permission of the course coordinator.
COREQUISITE  EPID 401/3.0 or permission of the course coordinator.
EXCLUSION  No more than 9.0 units from ANAT 499/9.0; CANC 499/9.0; EPID 499/9.0; LISC 499/9.0; MICR 455/6.0; MICR 499/9.0; NSCI 499/9.0; PATH 499/9.0; PHAR 499/9.0; PHGY 499/9.0.
FILM 104/3.0  Film Form and Modern Culture to 1970  3L/S;2P
Introduction to tools and methods of visual and aural analysis and to historical and social methods, with examples primarily from the history of cinema and other moving-image media to 1970.
NOTE  Offered only at the Bader International Study Centre, Herstmonceux.

FILM 106/3.0  Film Form and Modern Culture from 1970  3L/S;2P
Introduction to tools and methods of visual and aural analysis and to historical and social methods, with examples primarily from cinema and other moving-image media dating from 1970 to the present.
NOTE  Offered only at the Bader International Study Centre, Herstmonceux.

FILM 110/6.0  Film, Culture and Communication  3L/T;2P
Introduction to analysis of film, television, advertising, and other, related forms of contemporary culture. Includes classical and contemporary Hollywood cinema, Canadian film and television, and alternatives in international cinema. Course requirements include both written work and elementary projects on videotape.

FILM 206/3.0  Research, Writing, and Presentation Methods  3S;2P
A series of interactive presentations and lectures instructing students in research methods, argumentative writing, and the design of effective audio-visual presentations.
PREREQUISITE  (A grade of B- in FILM 110/6.0) or (a GPA of 2.60 in FILM 104/3.0 and FILM 106/3.0).

FILM 216/3.0  Historical Inquiry  3L;2P
Introduction to historical research and analysis of narrative and other films. Examines works, from a range of periods and settings, and the conditions that shaped their production, circulation and reception.
PREREQUISITE  (A grade of B- in FILM 110/6.0) or (a GPA of 2.60 in FILM 104/3.0 and FILM 106/3.0).
EXCLUSION  No more than 1 course from FILM 215/6.0; FILM 216/3.0.

FILM 226/3.0  Critical Inquiry  3L;2P
Textual analysis of narrative and other films, including examination of formal, aesthetic, and narrative techniques and conventions, and their production of meaning in social and political contexts.
PREREQUISITE  (A grade of B- in FILM 110/6.0) or (a GPA of 2.60 in FILM 104/3.0 and FILM 106/3.0).
EXCLUSION  No more than 1 course from FILM 225/6.0; FILM 226/3.0.

FILM 236/3.0  Media Studies  3L;2P
Introduction to cultural and social theory of film and other media as it relates to the tension between citizenship and consumerism. Examines roles, functions, and impact of mass media technologies, institutions, and practices in both scholarly and practical forms.
PREREQUISITE  (A grade of B- in FILM 110/6.0) or (a GPA of 2.60 in FILM 104/3.0 and FILM 106/3.0).
EXCLUSION  No more than 3.0 units from: FILM 231/3.0; FILM 232/3.0.

FILM 240/3.0  Media and Popular Culture  3L
Course surveys a variety of popular media forms and genres (film, TV, radio, music, novels, magazines, advertising, news, Internet). Introduces contemporary cultural studies analysis concerning the impact of everyday media use on the formation of identities, perceptions, lifestyles and communities.

FILM 250/6.0  Fundamentals of Production  3L/P;1T
Introduction to basic film and video production techniques, including camera, lighting, sound recording, and editing. Assignments, on videotape, include exercises in groups and projects organized by individual students.
NOTE  Production supplies $100. Priority will be given to students with the highest overall GPA on FILM courses, including those at the 100-level.
PREREQUISITE  (A grade of B- in FILM 110/6.0) or (a GPA of 2.60 in FILM 104/3.0 and FILM 106/3.0).

FILM 300/3.0  Hollywood: The Dream Factory  3L/S;2P
Intermediate study in an area of classical Hollywood cinema, through a selection of representative films. Examines industrial systems of production, distribution, and exhibition in the United States, the art of popular cinema, and relations to social setting.
PREREQUISITE  FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.
FILM 301/3.0  American Film in Historical Perspective  3L/S;2P
This course studies the production and reception of film in the United States from the turn of the 20th century to the present day. It traces the aesthetic, technological and organisational changes in various film practices, and places those changes in the context of American social history. Example films are chosen from feature filmmaking as well as from documentary and experimental traditions.
PREREQUISITE  FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 302/3.0  Genre  3L/S;2P
Intermediate examination of generic convention, iconography, relations to modes of production and to audience, and historical dimensions, using as examples films or video productions in one or more genre.
PREREQUISITE  FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 303/3.0  National and International Cinema  3L/S;2P
Intermediate examination of a national cinema or the cinemas of more than one nation.
PREREQUISITE  FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 305/3.0  European Narrative  3L/S;2P
Intermediate critical and historical study, through a selection of narrative films from one or more European nations.
Examines cinema industries and art within national and continental culture.
PREREQUISITE  FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 306/3.0  Comparative Contemporary Film in Europe  3L;2P
Intermediate study of thematic and stylistic trends in recent European cinema, with reference to social and political changes.
NOTE  Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITE  Level 3.

FILM 307/3.0  Classics of European Cinema  3L;2P
Intermediate study of some of the most significant films made in Europe from the early 20th century to today. Considers historical, technological, and aesthetic determinants and influence.
NOTE  Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITE  Level 3.

FILM 310/3.0  Reviewing World Cinema and Media Arts  3S
A course in developing expertise in writing reviews of contemporary world cinema and media arts. The class will meet every other week throughout the Fall and Winter terms. Students’ reviews will be posted on a web site.
PREREQUISITE  FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 312/3.0  Screenwriting  3S
Approaches to dramatic storytelling for the screen. Students analyze examples from existing works and, through practical exercises, prepare a short, original screenplay.
PREREQUISITE  FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 315/3.0  Film and Digital Media Theory  3L/S;2P
Intermediate study in the literature of film and digital media theory and criticism. Examines a selection of writing significant in the evolving understanding of both cinema and digital media within the context of a changing technological environment (of both production and viewing).
PREREQUISITE  FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 320/3.0  Media and the Arts  3L/S;2P
Intermediate study in relations between moving-image media and other visual or performing arts.
PREREQUISITE  FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.
FILM 322/3.0  Canadian Film and Television to 1980  3L/S;2P
Intermediate study in history and critical analysis, from early cinema to the tax-shelter boom and the institution of Telefilm Canada.
PREREQUISITE FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 323/3.0  Contemporary Canadian Film and Television  3L;2P
Intermediate examination of film and television in Canada since 1980, taking into account regional difference and other cultural, political, and economic distinctions.
PREREQUISITE FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 331/3.0  Women and Film  3L/S;2P
Intermediate study in feminist approaches to the cinema and to films produced by women. Critical examination of critical and theoretical literature, and examples of narrative, documentary, and experimental cinemas.
PREREQUISITES 18.0 units in FILM or (GNDS 120/3.0 and GNDS 211/3.0 and [GNDS 125/3.0 or WMNS 225/3.0] and Level 3).

FILM 335/3.0  Culture and Technology  3L/S;2P
Research and studies in relations of media, technology, and culture. Critical examination of cultural and communication technologies and the employment of technology within selected examples from film, television, and other media.
PREREQUISITE FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 336/3.0  Film and Politics  3L/S;2P
Intermediate examination of the historical and critical relation between film and politics or political ideologies. Examples will be drawn from both narrative and non-narrative traditions.
PREREQUISITE FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 337/3.0  Cinema and the City  3L;2T
An intermediate study of representations of the city in cinema and visual culture, the social histories from which these representations emerge, and the changing environments in which cinema is viewed.
PREREQUISITES 18.0 units in FILM or (GPHY 101/3.0 and GPHY 227/3.0 and GPHY 229/3.0 and [GPHY 328/3.0 or 6.0 units in FILM]).

FILM 340/3.0  Advertising and Consumer Culture  3L/S;2P
Historical and critical examination of advertising, especially television and related print materials, as cultural, economic, and political practices within a continuously changing consumer society.
PREREQUISITE FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 345/3.0  Television: Structure and Function  3L/S;2P
Intermediate examination of television and the development of the medium as a distinctive cultural form, through a range of programs and programming formats, issues of audience, and television broadcasting in Canada.
PREREQUISITE FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 351/3.0  Documentary Production  3L;2P
Advanced motion picture production course. Each student produces a short documentary using video and/or 16mm film. Emphasis will be placed on unconventional approaches and techniques.
PREREQUISITE FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 352/3.0  Production: Issues of Form and Structure  3L;2P
Advanced practical course in film and video aesthetics. Starting with the screening and analysis of selected works, each student will script, produce and edit a short video or 16mm work that explores particular formal questions. Emphasis will be placed on unconventional approaches and techniques.
PREREQUISITE FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.
FILM 355/6.0  Documentary Theory and Practice  3L/S;2P
A course which combines study of the history and theory of documentary film with the production of documentary videos. Requirements will include both research essays as well as the conceptualization and production of a documentary video or film.
PREREQUISITE    FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.
EXCLUSION    No more than 1 course from FILM 355/6.0; FILM 360/3.0.

FILM 360/3.0  The Documentary Tradition  3L/S;2P
Intermediate critical and historical study in non-fiction film and television, based on selected examples from Canada, including productions of the National Film Board and the CBC, and international documentary cinemas.
PREREQUISITE    FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.
EXCLUSION    No more than 1 course from FILM 355/6.0; FILM 360/3.0.

FILM 370/3.0  The Experimental Tradition  3S/P
Intermediate critical and historical study in the avant-garde of the international cinema, based on selected examples principally from Europe, the United States and Canada.
PREREQUISITE    FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.
EXCLUSION    No more than 1 course from FILM 370/3.0; FILM 375/6.0.

FILM 375/6.0  Experimental Theory and Practice  3L/S;2P
A course which combines study of the history and theory of experimental film with the production of experimental works. Requirements will include both research essays as well as the conceptualization and production of an experimental video or film.
PREREQUISITE    FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.
EXCLUSION    No more than 1 course from FILM 370/3.0; FILM 375/6.0.

FILM 380/3.0  Approaches to Video  3L/S;2P
Critical and historical examination of video as a medium and a cultural form, based on selected examples of work produced in video formats.
PREREQUISITE    FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 385/6.0  Animation Theory and Practice  3L/S;2P
A course which combines study of the history and theory of film animation with the production of animated films. Requirements will include both research essays as well as the conceptualization and production of an animated film.
PREREQUISITE    FILM 250/6.0 and 6.0 units in FILM at the 200-level or above.

FILM 395/3.0  Internship
Students can apply to undertake a practical internship in media production, criticism or curatorship. All internships must be approved in advance by application to the Undergraduate Coordinator. Approval will depend on the quality of the proposal and the academic record of the applicant. Students are required to write a report about their experience and are evaluated jointly by their employer and a faculty member from Film and Media. It is the responsibility of students, not the Department of Film and Media, to arrange internships.
NOTE Students will be given a grade of Pass/Fail for work done.
PREREQUISITE    18.0 units in FILM and permission of the Department.

FILM 410/3.0  Video Production for Digital Media  3L/P
Advanced work in video and computer media. Assignments include the production of digital video projects, undertaken individually and in groups.
PREREQUISITE    FILM 250/6.0 and 18.0 units in FILM at the 200-level or above and a GPA of 2.70 in 30.0 units from FILM.

FILM 415/3.0  Contemporary Theory: Special Topic  3S;2P
Advanced seminar on one or more approaches to cinema and culture, based on a selection of writings and related screenings.
PREREQUISITE  FILM 250/6.0 and 18.0 units in FILM at the 200-level or above and a GPA of 2.70 in 30.0 units from FILM.

FILM 422/3.0  Canadian Cinema: Special Topic  3S;2P
Advanced seminar on specific area of research and study selected by the instructor. Subjects have included Québécois cinema, film and mass culture in Canada.
PREREQUISITE  FILM 250/6.0 and 18.0 units in FILM at the 200-level or above and a GPA of 2.70 in 30.0 units from FILM.

FILM 425/3.0  Advanced Film Criticism  3S
Research seminar that draws on students’ previous work to enhance advanced writing and research in film criticism. Topics from theory, criticism, and history will be addressed to suit individual students’ projects.
PREREQUISITE  Level 4 and a GPA of 2.70 in 30.0 units from FILM or permission of the Department.

FILM 430/3.0  Authorship: Special Topic I  3S;2P
Advanced seminar on authorship and analysis, generally concerning the work of a single film-maker. Subjects have included John Ford, Federico Fellini.
PREREQUISITE  FILM 250/6.0 and 18.0 units in FILM at the 200-level or above and a GPA of 2.70 in 30.0 units from FILM.

FILM 431/3.0  Authorship: Special Topic II  3S;2P
Advanced seminar on authorship and analysis, generally concerning the work of a single film-maker. Subjects have included John Ford, Federico Fellini.
PREREQUISITE  FILM 250/6.0 and 18.0 units in FILM at the 200-level or above and a GPA of 2.70 in 30.0 units from FILM.

FILM 435/3.0  Culture and Representation: Special Topic I  3S;2P
Advanced seminar on relations between societies and their expression in culture, with particular reference to film, television, and comparable media. Subjects have included interdisciplinary approaches and cultural studies; cinema in the Third World.
PREREQUISITE  FILM 250/6.0 and 18.0 units in FILM at the 200-level or above and a GPA of 2.70 in 30.0 units from FILM.

FILM 436/3.0  Culture and Representation: Special Topic II  3S;2P
Advanced seminar on relations between societies and their expression in culture, with particular reference to film, television, and comparable media. Subjects have included interdisciplinary approaches and cultural studies; cinema in the Third World.
PREREQUISITE  FILM 250/6.0 and 18.0 units in FILM at the 200-level or above and a GPA of 2.70 in 30.0 units from FILM.

FILM 440/3.0  Non-narrative Film: Special Topic I  3S;2P
Advanced seminar on selected areas of documentary or experimental cinemas. Subjects have included politically committed documentary in Canada; the anti-documentary.
PREREQUISITE  FILM 250/6.0 and 18.0 units in FILM at the 200-level or above and a GPA of 2.70 in 30.0 units from FILM.

FILM 441/3.0  Non-narrative Film: Special Topic II  3S;2P
Advanced seminar on selected areas of documentary or experimental cinemas. Subjects have included politically committed documentary in Canada; the anti-documentary.
PREREQUISITE  FILM 250/6.0 and 18.0 units in FILM at the 200-level or above and a GPA of 2.70 in 30.0 units from FILM.

FILM 445/3.0  Narrative Film: Special Topic I  3S;2P
Advanced seminar on an area of narrative cinema, generally concerning a selection of feature-length films. Subjects have included international films of the 1990s.
PREREQUISITE    FILM 250/6.0 and 18.0 units in FILM at the 200-level or above and a GPA of 2.70 in 30.0 units from FILM.

FILM 446/3.0    Narrative Film: Special Topic II       3S;2P
Advanced seminar on an area of narrative cinema, generally concerning a selection of feature-length films. Subjects have included international films of the 1990s.
PREREQUISITE    FILM 250/6.0 and 18.0 units in FILM at the 200-level or above and a GPA of 2.70 in 30.0 units from FILM.

FILM 450/3.0    Production: Special Topic I         5P
Advanced seminar/workshop in an area of film or video production, generally involving intensive analysis of existing work and practical assignments.
PREREQUISITE    FILM 250/6.0 and 18.0 units in FILM at the 200-level or above and a GPA of 2.70 in 30.0 units from FILM.

FILM 451/3.0    Production: Special Topic II         5P
Advanced seminar/workshop in an area of film or video production, generally involving intensive analysis of existing work and practical assignments.
PREREQUISITE    FILM 250/6.0 and 18.0 units in FILM at the 200-level or above and a GPA of 2.70 in 30.0 units from FILM.

FILM 500/6.0    Honours Thesis
Open to students completing an honours concentration in Film and Media, or Stage and Screen Studies. May be an essay or a film or video project. Apply for FILM 500/6.0 or FILM 501/3.0, but not both, to the Undergraduate Coordinator by end of Level 3.
PREREQUISITE    Level 4 and a GPA of 2.90 in FILM courses.

FILM 501/3.0    Honours Thesis
Open to students completing an honours concentration in Film and Media, or Stage and Screen Studies. May be an essay or a film or video project. Apply for FILM 500/6.0 or FILM 501/3.0, but not both, to the Undergraduate Coordinator by end of Level 3.
PREREQUISITE    Level 4 and a GPA of 2.90 in FILM courses.

FILM 510/6.0    Directed Studies
Open to students completing an honours concentration in Film and Media, or Stage and Screen Studies. Enables a student to pursue an area of study not covered in regularly offered courses. Applicants must obtain approval of the Undergraduate Coordinator and supervising instructor.
PREREQUISITE    Level 4 and registration in a FILM or STSC Plan and a minimum GPA of 2.90 in FILM.

FILM 511/3.0    Directed Studies
Open to students completing an honours concentration in Film and Media, or Stage and Screen Studies. Enables a student to pursue an area of study not covered in regularly offered courses. Applicants must obtain approval of the Undergraduate Coordinator and supervising instructor.
PREREQUISITE    Level 4 and registration in a FILM or STSC Plan and a minimum GPA of 2.90 in FILM.

FILM 512/3.0    Directed Studies
Open to students completing an honours concentration in Film and Media, or Stage and Screen Studies. Enables a student to pursue an area of study not covered in regularly offered courses. Applicants must obtain approval of the Undergraduate Coordinator and supervising instructor.
PREREQUISITE    Level 4 and registration in a FILM or STSC Plan and a minimum GPA of 2.90 in FILM.
FREN P11/3.0  Français Intensif I  3L
EXCLUSION   No more than 6.0 units from FREN P10/6.0; FREN P11/3.0; FREN P12/3.0.
ONE-WAY EXCLUSION  May not be taken with or after FREN P12/3.0.

FREN P12/3.0  Français Intensif II  3L
EXCLUSION   No more than 6.0 units from FREN P10/6.0; FREN P11/3.0; FREN P12/3.0.

FREN P16/3.0  Communication et culture I  1.5L;3P
For students with no (or a minimal) background in French.
ONE-WAY EXCLUSION  May not be taken with or after FREN P10/6.0; FREN P11/3.0.

FREN P17/3.0  Communication et culture II  1.5L;3P
For students with three years of high school French or equivalent.
ONE-WAY EXCLUSION  May not be taken with or after FREN P10/6.0; FREN P12/3.0.

FREN 100/6.0  Français intermédiaire  3L
Practice in reading, writing, grammar review and literary analysis. For students wishing to complete a minor concentration in French.
NOTE  Placement test required during Orientation Week.
NOTE  A grade of B is required in this course if a student wishes to use it as a prerequisite to access those upper-year courses required for the FREN Major or Medial Plans.
EXCLUSION   No more than 6.0 units from FREN 100/6.0; FREN 101/3.0; FREN 102/3.0; FREN 110/6.0.

FREN 101/3.0  Français intermédiaire I  3L;1P
Practice in reading, writing, grammar review and literary analysis.
NOTE  Offered only at the Bader International Study Centre, Herstmonceux.
NOTE  Placement test required. A grade of B is required in this course if a student wishes to use it as a prerequisite to access those upper-year courses required for the FREN Major or Medial Plans.
EXCLUSION   No more than 6.0 units from FREN 100/6.0; FREN 101/3.0; FREN 102/3.0; FREN 110/6.0.

FREN 102/3.0  Français intermédiaire II  3L;1P
Practice in reading, writing, grammar review and literary analysis.
NOTE  Offered only at the Bader International Study Centre, Herstmonceux.
NOTE  Placement test required. A grade of B is required in this course if a student wishes to use it as a prerequisite to access those upper-year courses required for the FREN Major or Medial Plans.
EXCLUSION   No more than 6.0 units from FREN 100/6.0; FREN 101/3.0; FREN 102/3.0; FREN 110/6.0.

FREN 110/6.0  Français avancé  3L
Practice in reading, writing, grammar review and literary analysis. For students possessing a good knowledge of French who wish to complete a major or medial concentration for the B.A.(Honours) degree.
NOTE  Placement test required during Orientation Week. A grade of C is required in this course if a student wishes to use it as a prerequisite to access those upper-year courses required for the FREN Major or Medial Plans.
EXCLUSION   No more than 6.0 units from FREN 100/6.0; FREN 101/3.0; FREN 102/3.0; FREN 110/6.0.

FREN 118/3.0  Communication et culture III  1.5L;3P
For students with four or five years of high school French or equivalent.
ONE-WAY EXCLUSION  May not be taken with or after FREN 100/6.0; FREN 110/6.0.

FREN 201/3.0  Stratégies d’écriture en français  3L
For students wishing to refine their grammatical skills and develop strategies for effective writing through discussion and written travaux pratiques.
PREREQUISITE  FREN 100/6.0 or FREN 110/6.0 or (FREN 101/3.0 and FREN 102/3.0).
FREN 202/3.0  Rédaction et style  3L
Linguistic activities designed to perfect competence in reading and writing French at an advanced level.
PREREQUISITE  FREN 100/6.0 or FREN 110/6.0 or (FREN 101/3.0 and FREN 102/3.0).

FREN 212/6.0  Introduction à la littérature française  3L
An introduction to French literature from 1600 to 1800 stressing how tensions generated between different ideas within a period determine the aesthetic, philosophical and literary choices made by major authors. Tutorials are devoted to a study of texts by the authors studied during lecture hours.
PREREQUISITE  A grade of C in FREN 110/6.0 or a grade of B in (FREN 100/6.0 or [FREN 101/3.0 and FREN 102/3.0]).

FREN 215/6.0  Introduction à la linguistique française  1.5L/1.5P
An introduction to the general principles of linguistics, in the areas of phonetics, phonology, morphology, lexicology, syntax and semantics. Examples are drawn primarily from Canadian and European French.
NOTE  FREN 215 is a Problem-Based Learning (PBL) course. The instructor will meet with students once a week for 1.5 hours in the lecture format to present concepts and problems. The second block of 1.5 hours will be occupied by students working collaboratively in small groups on specific sets of preset problems using online and other materials.
PREREQUISITE  A grade of C in FREN 110/6.0 or a grade of B in (FREN 100/6.0 or [FREN 101/3.0 and FREN 102/3.0]).

FREN 219/3.0  Communication et culture IV  1.5L;3P
For students with immersion background.

FREN 220/6.0  Analyse textuelle et étude de la langue  3L
The methodology of literary analysis. Assignments may include textual analysis, translation and composition.
PREREQUISITE  A grade of C in FREN 110/6.0 or a grade of B in (FREN 100/6.0 or [FREN 101/3.0 and FREN 102/3.0]).
EXCLUSION  No more than 6.0 units from FREN 220/6.0; FREN 221/6.0.

FREN 221/6.0  La langue, le texte et le multimédia  3L
A study of language in the literary context, emphasizing a close reading of French and Québec works from different genres and different centuries. The course discusses adaptations (film, theatre, music and art) of literary material.
PREREQUISITE  A grade of C- in FREN 100/6.0.
EXCLUSION  No more than 6.0 units from FREN 220/6.0; FREN 221/6.0.

FREN 227/3.0  Le cinéma et la civilisation française  3L;2P
A course in contemporary French civilization as seen through various media: books, newspapers, and the cinema.
PREREQUISITE  FREN 100/6.0 or FREN 110/6.0 or (FREN 101/3.0 and FREN 102/3.0).

FREN 232/3.0  Civilisation canadienne-française  3L
History of ideas and cultural evolution in French Canada, concentrating mainly on the period from the 19th century to the present day.
PREREQUISITES  FREN 100/6.0 or FREN 110/6.0 or (FREN 101/3.0 and FREN 102/3.0).
EXCLUSION  No more than 3.0 units from FREN 232/3.0 or FREN 312/3.0; FREN 300/3.0.

FREN 266/3.0  Le théâtre canadien-français  3L
A study of the development of contemporary French-Canadian theatre through a detailed analysis of selected plays by Dubé, Gélinas, Tremblay and others. Travaux pratiques include oral exposés, several short essays and one main dissertation.
PREREQUISITE  FREN 100/6.0 or FREN 110/6.0 or (FREN 101/3.0 and FREN 102/3.0).

FREN 283/3.0  Le français des affaires I  3L
An introduction to business French, including discussions of related cultural and economic issues.
PREREQUISITE  FREN 100/6.0 or FREN 110/6.0 or (FREN 101/3.0 and FREN 102/3.0).
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<th>Course Code</th>
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<tr>
<td>FREN 285/3.0</td>
<td>Cinéma et société: aspects culturels de la francophonie</td>
<td>3L</td>
<td>A course focusing on the socio-cultural and political aspects of African and Caribbean cinemas.</td>
</tr>
<tr>
<td>FREN 304/3.0</td>
<td>Introduction à la littérature française du Moyen Age</td>
<td>3L</td>
<td>A study of representative literary works in the Middle Ages, including <em>La Chanson de Roland</em>, <em>Tristan et Iseult</em>, <em>Le Roman de Renart</em>, <em>Le Roman de la Rose</em>, Chrétien de Troyes, Rutebeuf and Villon. <em>Travaux pratiques</em> include essays and tests. Given jointly with FREN 404/3.0.</td>
</tr>
<tr>
<td>FREN 305/3.0</td>
<td>Le théâtre depuis 1945</td>
<td>3L</td>
<td>A detailed study of selected plays from French theatre since 1945. Visual presentations. Semiotic approach. Cocteau, Duras, Beckett, Ionesco, Sarraute, Sartre, Koltès. <em>Travaux pratiques</em> include essays and tests. Given jointly with FREN 417/3.0.</td>
</tr>
<tr>
<td>FREN 306/3.0</td>
<td>Le théâtre classique</td>
<td>3L</td>
<td>A detailed study of plays by Corneille, Racine, Molière. <em>Travaux pratiques</em> include essays and tests. Given jointly with FREN 418/3.0.</td>
</tr>
<tr>
<td>FREN 315/3.0</td>
<td>Introduction à la littérature française de la Renaissance</td>
<td>3L</td>
<td>A study of representative literary works of the 15th and 16th centuries, including Villon, Montaigne, Rabelais. <em>Travaux pratiques</em> include essays and tests. Given jointly with FREN 405/3.0.</td>
</tr>
<tr>
<td>FREN 320/3.0</td>
<td>Communication et culture V</td>
<td>1.5L; 3P</td>
<td>For advanced students.</td>
</tr>
<tr>
<td>FREN 323/3.0</td>
<td>La littérature française de 1848 à 1900</td>
<td>3L</td>
<td>A detailed study of major 19th century writers after 1848. <em>Travaux pratiques</em> include essays and tests. Given jointly with FREN 423/3.0.</td>
</tr>
<tr>
<td>FREN 324/3.0</td>
<td>Le roman français du 20e siècle I</td>
<td>3L</td>
<td>A detailed study of selected novels from 20th-century French authors until 1945. Beauvoir, Camus, Céline, Cocteau, Colette, Gide, Proust, Sartre. <em>Travaux pratiques</em> include essays and tests. Given jointly with FREN 424/3.0.</td>
</tr>
<tr>
<td>FREN 325/3.0</td>
<td>Tendances avant-gardistes et post-modernes au XXè siècle et à l'ère actuelle</td>
<td>3L</td>
<td>A seminar on avant-garde and post-modern works in which students will be asked to examine traditional literary conventions of representation, particularly those established over the course of the 19th century. Class discussion will then shift to avant-garde and post-modern works that question such conventions and also address issues pertaining to the limits of representation. <em>Travaux pratiques</em> include essays and tests. Given jointly with FREN 425/3.0.</td>
</tr>
</tbody>
</table>
FREN 327/3.0  
**Le Cinéma aujourd'hui: Études thématiques**  
3L  
A study of cultural representations in contemporary film. Special topics may include women in cinema, culture and identity in French and/or Francophone cinema, history through cinema, avant-garde cinema and the ‘nouvelle vague’. *Travaux pratiques* include essays and tests. Given jointly with FREN 427/3.0.  
PREREQUISITES FREN 221/6.0 or (FREN 212/6.0 and FREN 220/6.0).  
EXCLUSION No more than 3.0 units from FREN 327/3.0; FREN 427/3.0.  

FREN 334/3.0  
**La littérature canadienne-française des débuts à 1965**  
3L  
Examination of the evolution of the traditional French-Canadian literature, especially the novel. *Travaux pratiques* include essays and tests. Given jointly with FREN 434/3.0.  
PREREQUISITES FREN 221/6.0 or (FREN 212/6.0 and FREN 220/6.0).  
EXCLUSION No more than 3.0 units from FREN 334/3.0; FREN 434/3.0 (formerly FREN 402/3.0).  

FREN 335/3.0  
**Le roman québécois de 1965 à nos jours**  
3L  
A detailed study of representative Québécois authors since 1965. *Travaux pratiques* include essays and tests. Given jointly with FREN 435/3.0.  
PREREQUISITES FREN 221/6.0 or (FREN 212/6.0 and FREN 220/6.0).  
EXCLUSION No more than 3.0 units from FREN 335/3.0; FREN 435/3.0 (formerly FREN 403/3.0).  

FREN 344/3.0  
**Travaux pratiques de langue**  
3L  
Advanced study of French language with emphasis on written French. Activities include translation.  
PREREQUISITES FREN 220/6.0 or FREN 221/6.0 or (FREN 201/3.0 and FREN 202/3.0).  

FREN 351/3.0  
**Ecrits de la Francophonie**  
3L  
A study of representative works by African and the Caribbean writers. *Travaux pratiques* include essays and tests. Given jointly with FREN 451/3.0.  
PREREQUISITES FREN 221/6.0 or (FREN 212/6.0 and FREN 220/6.0).  
EXCLUSION No more than 3.0 units from FREN 351/3.0; FREN 451/3.0.  

FREN 353/3.0  
**Phonétique et phonologie du français**  
3L  
Introduction to basic notions in phonetics and phonology. Physiology of speech and phonation, description and classification of French sounds, distinction between phonetics and phonology, description of the French phonological system (phonemes and feature system, phonological rules and syllable structure).  
PREREQUISITE FREN 220/6.0 or FREN 221/6.0.  
EXCLUSION No more than 6.0 units from FREN 215/6.0; FREN 353/3.0; FREN 393/3.0.  

FREN 363/3.0  
**Histoire sociopolitique de la langue française**  
3L  
The socio-historical development of the French language from its Latin origins to the present. The emergence of the French language, its expansion, and codification, and its status as a social institution.  
PREREQUISITES FREN 221/6.0 or (FREN 212/6.0 and FREN 220/6.0) or FREN 215/6.0.  

FREN 373/3.0  
**Syntaxe du français**  
3L  
An introduction to the general principles of syntactic analysis with emphasis on the syntax of French.  
PREREQUISITE FREN 220/6.0 or FREN 221/6.0 or FREN 215/6.0.  

FREN 384/3.0  
**Le français des affaires II**  
3L  
Further development of French business skills, with emphasis on vocabulary building to further enhance written and oral expression in the context of current business issues.  
PREREQUISITE FREN 201/3.0 or FREN 202/3.0 or FREN 220/6.0 or FREN 221/6.0 or FREN 283/3.0.  

FREN 387/3.0  
**La prose au 17e siècle**  
3L  
Seventeenth-century texts in prose are studied in detail from the works of Cyrano de Bergerac, d'Urfé, Scarron, Furetière, Guilleragues and Mme de la Fayette. *Travaux pratiques* include oral exposés and dissertations. Given jointly with FREN 487/3.0.  
PREREQUISITES FREN 221/6.0 or (FREN 212/6.0 and FREN 220/6.0).  
EXCLUSION No more than 3.0 units from FREN 387/3.0; FREN 487/3.0.
FREN 388/3.0  
**Roman des lumières: entre tradition et modernité**  
3L  
A study of significant trends in the novel of 18th century France with special emphasis on historical and aesthetic changes in the relationship between fiction and its social context. Travaux pratiques include essays and tests. Given jointly with FREN 488/3.0.  
PREREQUISITES  
FREN 221/6.0 or (FREN 212/6.0 and FREN 220/6.0).  
EXCLUSION  
No more than 3.0 units from FREN 388/3.0; FREN 488/3.0.

FREN 390/3.0  
**La femme et/dans la littérature**  
3L  
A study of discourse on and by women in representative works (primarily the novel). Travaux pratiques may include essays and tests. Given jointly with FREN 490/3.0.  
PREREQUISITES  
FREN 221/6.0 or (FREN 212/6.0 and FREN 220/6.0).  
EXCLUSION  
No more than 3.0 units from FREN 390/3.0; FREN 490/3.0.

FREN 391/3.0  
**Auteurs et thèmes en littérature québécoise**  
3L  
Focuses on a specific author or on a specific theme of Quebec literature. Topics will depend on the professor’s interest and field of research. Travaux pratiques include essays and tests. Given jointly with FREN 491/3.0.  
PREREQUISITES  
FREN 221/6.0 or (FREN 212/6.0 and FREN 220/6.0).  
EXCLUSION  
No more than 3.0 units from FREN 391/3.0; FREN 491/3.0 (formerly FREN 407/3.0). 

FREN 393/3.0  
**Morphologie et lexicologie du français**  
3L  
Introduction to basic notions in French lexicology and morphology. The structure of words. Derivational and inflectional morphology. The structure of the lexicon.  
PREREQUISITE  
FREN 220/6.0 or FREN 221/6.0.  
EXCLUSION  
No more than 3.0 units from FREN 215/6.0; FREN 353/3.0; FREN 393/3.0.

FREN 395/3.0  
**Textes et contextes de l’ancienne France**  
3L  
A study of relations between social, cultural and artistic developments and their literary expression from the Middle Ages to the French Revolution. Various media will be used to support that analysis: texts, movies, paintings.  
PREREQUISITES  
FREN 221/6.0 or (FREN 212/6.0 and FREN 220/6.0).

FREN 396/3.0  
**Cinéma et société au Québec**  
3L  
A study of Québec society through the analysis of cinema focusing on the impacts of recent cultural institutions on the formation of cultural identity during and since the Quiet Revolution. Travaux pratiques include essays and tests. Given jointly with FREN 496/3.0.  
PREREQUISITES  
FREN 221/6.0 or (FREN 212/6.0 and FREN 220/6.0).  
EXCLUSION  
No more than 3.0 units from FREN 295/3.0; FREN 396/3.0; FREN 496/3.0.

FREN 404/3.0  
**Introduction à la littérature française du Moyen Age**  
3L  
A study of representative literary works in the Middle Ages, including La Chanson de Roland, Tristan et Iseult, Le Roman de Renart, Le Roman de la Rose, Chrétien de Troyes, Rutebeuf and Villon. Travaux pratiques include tests, an oral presentation and an in-depth essay. Given jointly with FREN 304/3.0.  
PREREQUISITES  
FREN 212/6.0 and FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.  
EXCLUSION  
No more than 3.0 units from FREN 304/3.0; FREN 404/3.0; FREN 406/3.0.

FREN 405/3.0  
**Introduction à la littérature française de la Renaissance**  
3L  
A study of representative literary works of the 15th and 16th centuries, including Villon, Montaigne, Rabelais. Travaux pratiques include tests, an oral presentation and an in-depth essay. Given jointly with FREN 315/3.0.  
PREREQUISITES  
FREN 212/6.0 and FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.  
EXCLUSION  
No more than 3.0 units from FREN 315/3.0; FREN 405/3.0.
<table>
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<tr>
<td>FREN 417/3.0</td>
<td>Le théâtre depuis 1945</td>
<td>3L</td>
<td>A detailed study of selected plays from French theatre since 1945. Visual presentations. Semiotic approach. Cocteau, Duras, Beckett, Ionesco, Sarraute, Sartre, Koltès. <em>Travaux pratiques</em> include tests, an oral presentation and an in-depth essay. Given jointly with FREN 305/3.0.</td>
<td>FREN 212/6.0 and FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.</td>
<td>No more than 3.0 units from FREN 305/3.0; FREN 417/3.0.</td>
</tr>
<tr>
<td>FREN 418/3.0</td>
<td>Le théâtre classique</td>
<td>3L</td>
<td>A detailed study of plays by Corneille, Racine, Molière. <em>Travaux pratiques</em> include tests, an oral presentation and an in-depth essay. Given jointly with FREN 306/3.0.</td>
<td>FREN 212 and FREN 220 and Level 4 and registration in a FREN or FRLG Plan.</td>
<td>No more than 3.0 units from FREN 306/3.0; FREN 418/3.0.</td>
</tr>
<tr>
<td>FREN 423/3.0</td>
<td>La littérature française de 1848 à 1900</td>
<td>3L</td>
<td>A detailed study of French writers after 1848. <em>Travaux pratiques</em> include tests, an oral presentation and an in-depth essay. Given jointly with FREN 323/3.0.</td>
<td>FREN 212/6.0 and FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.</td>
<td>No more than 3.0 units from FREN 323/3.0; FREN 423/3.0.</td>
</tr>
<tr>
<td>FREN 424/3.0</td>
<td>Le roman français du 20e siècle I</td>
<td>3L</td>
<td>A detailed study of selected novels from 20th century French authors until 1945. Beauvoir, Camus, Céline, Cocteau, Colette, Gide, Proust, Sartre. <em>Travaux pratiques</em> include tests, an oral presentation and an in-depth essay. Given jointly with FREN 324/3.0.</td>
<td>FREN 212/6.0 and FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.</td>
<td>No more than 3.0 units from FREN 324/3.0; FREN 424/3.0.</td>
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<tr>
<td>FREN 425/3.0</td>
<td>Tendances avant-gardistes et post-modernes au XXe siècle et à l'ère actuelle</td>
<td>3L</td>
<td>A seminar on avant-garde and post-modern works in which students will be asked to examine traditional literary conventions of representation, particularly those established over the course of the 19th century. Class discussion will then shift to avant-garde and post-modern works that question such conventions and also address issues pertaining to the limits of representation. <em>Travaux pratiques</em> include an oral presentation and an in-depth essay. Given jointly with FREN 325/3.0.</td>
<td>FREN 212/6.0 and FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.</td>
<td>No more than 3.0 units from FREN 325/3.0; FREN 425/3.0.</td>
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<tr>
<td>FREN 427/3.0</td>
<td>Le Cinéma aujourd'hui : Études thématiques</td>
<td>3L</td>
<td>A study of cultural representations in contemporary film. Special topics may include women in cinema, culture and identity in French and/or Francophone cinema, history through cinema, avant-garde cinema and the 'nouvelle vague'. <em>Travaux pratiques</em> include an oral presentation and an in-depth essay. Given jointly with FREN 327/3.0.</td>
<td>FREN 212/6.0 and FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.</td>
<td>No more than 3.0 units from FREN 327/3.0; FREN 427/3.0.</td>
</tr>
<tr>
<td>FREN 433/3.0</td>
<td>Le français au Canada</td>
<td>3L/S</td>
<td>History of French in Canada. The pronunciation, vocabulary, syntax and style of Canadian French. Language planning in Quebec and Canada.</td>
<td>FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.</td>
<td>No more than 3.0 units from FREN 327/3.0; FREN 427/3.0.</td>
</tr>
<tr>
<td>FREN 434/3.0</td>
<td>La littérature canadienne-française des débuts à 1965</td>
<td>3L</td>
<td>Examination of the evolution of the traditional French-Canadian literature, especially the novel. <em>Travaux pratiques</em> include tests, an oral presentation and an in-depth essay. Given jointly with FREN 334/3.0.</td>
<td>FREN 212/6.0 and FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.</td>
<td>No more than 3.0 units from FREN 334/3.0; FREN 402/3.0; FREN 434/3.0.</td>
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FREN 435/3.0  Le roman québécois de 1965 à nos jours  3L
A detailed study of representative Québécois authors since 1965. Travaux pratiques include tests, an oral presentation and an in-depth essay. Given jointly with FREN 335/3.0.
PREREQUISITES  FREN 212/6.0 and FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.
EXCLUSION  No more than 3.0 units from FREN 335/3.0; FREN 403/3.0; FREN 435/3.0.

FREN 444/3.0  Travaux pratiques: stylistique et traduction  3P
A practical translation course. Review exercises in comparative stylistics, written and oral thèmes.
PREREQUISITE  A grade of C in FREN 344/3.0

FREN 451/3.0  Écrits de la francophonie  3L
A study of representative works by African and Caribbean writers. Travaux pratiques include tests, an oral presentation and an in-depth essay. Given jointly with FREN 351/3.0.
PREREQUISITES  FREN 212/6.0 and FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.
EXCLUSION  No more than 3.0 units from FREN 351/3.0; FREN 451/3.0.

FREN 463/3.0  Histoire interne du français  3L/S
This course will survey the internal development of the French language from its Latin origins to the present. Topics discussed include: selected aspects of the phonological, morphological, syntactic and lexical development as well as the evolution of the spelling system and on-going changes in French. Students will be introduced to corpus-based historical linguistics.
PREREQUISITES  FREN 353/3.0 and (FREN 373/3.0 or FREN 215/6.0) and Level 4 and registration in a FREN or FRLG Plan.

FREN 473/3.0  Thèmes en théorie morphosyntaxique  3S
This course will focus on current issues in morphosyntax. Current theories in generative grammar will be presented and evaluated. This seminar will focus on a specific theme related to the morphology-syntax interface. The focus of the course may vary from year to year depending on the interests of the instructor and the students.
PREREQUISITES  FREN 220/6.0 and (FREN 373/3.0 or LING 340/3.0) and (FREN 393/3.0 or LING 330/3.0) and Level 4 and registration in a FREN or FRLG Plan.

FREN 487/3.0  La prose au 17e siècle  3S
Seventeenth-century texts in prose are studied in detail from the works of Cyrano de Bergerac, d’Urfé, Scarron, Furetière, Guilleragues and Mme de la Fayette. Travaux pratiques include tests, an oral presentation and an in-depth essay. Given jointly with FREN 387/3.0.
PREREQUISITES  FREN 212/6.0 and FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.
EXCLUSION  No more than 3.0 units from FREN 387/3.0; FREN 487/3.0.

FREN 488/3.0  Roman des lumières: entre tradition et modernité  3L
A study of significant trends in the novel of 18th-century France with special emphasis on historical and aesthetic changes in the relationship between fiction and its social context. Travaux pratiques include tests, an oral presentation and an in-depth essay. Given jointly with FREN 388/3.0.
PREREQUISITES  FREN 212/6.0 and FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.
EXCLUSION  No more than 3.0 units from FREN 388/3.0; FREN 488/3.0.

FREN 490/3.0  La femme et/dans la littérature  3L
A study of discourse on and by women in representative works (primarily the novel). Travaux pratiques include tests, an oral presentation and an in-depth essay. Given jointly with FREN 390/3.0
PREREQUISITES  FREN 212/6.0 and FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.
EXCLUSION  No more than 3.0 units from FREN 390/3.0; FREN 490/3.0.
**FREN 491/3.0  Auteurs et thèmes en littérature québécoise**  
3L  
Focuses on a specific author or on a specific theme of Quebec literature. Topics will depend on the professor’s interest and field of research. *Travaux pratiques* include tests, an oral presentation and an in-depth essay. Given jointly with FREN 391/3.0.

**PREREQUISITES**  FREN 212/6.0 and FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.

**EXCLUSION**  No more than 3.0 units from FREN 391/3.0; *FREN 407/3.0*; FREN 491/3.0.

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**FREN 493/3.0  Acquisition d’une langue seconde**  
3L/S  
A study of second language acquisition with emphasis on the learning process, the influence of the first language, the concept of interlanguage, the role of learning strategies.

**PREREQUISITES**  (FREN 373/3.0 and [FREN 353/3.0 or FREN 393/3.0 or *FREN 215/3.0*]) or (LING 100/6.0 and FREN 110/6.0) or (LING 100/6.0 and a grade of B in FREN 100/6.0) and Level 4 and registration in a FREN or FRLG Plan.

**EQUIVALENCY**  *LING 493/3.0.*

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**FREN 496/3.0  Cinéma et société au Québec**  
3L  
A study of Québec society through the analysis of cinema focusing on the impact of recent cultural institutions on the formation of cultural identity during and since the Quiet Revolution. *Travaux pratiques* include tests, an oral presentation and an in-depth essay. Given jointly with FREN 396/3.0.

**PREREQUISITES**  FREN 212/6.0 and FREN 220/6.0 and Level 4 and registration in a FREN or FRLG Plan.

**EXCLUSION**  No more than 3.0 units from FREN 396/3.0 (formerly *FREN 295/3.0*); FREN 496/3.0.

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**FREN 501/3.0  Recherches dirigées I**  
Research in a particular area of French literature or language under the supervision of a professor.

**PREREQUISITE**  Permission of the Department and approval of the supervisor.

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**FREN 502/3.0  Recherches dirigées II**  
Research in a particular area of French literature or language under the supervision of a professor.

**PREREQUISITE**  Permission of the Department and approval of the supervisor.

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**FREN 503/3.0  Recherches en linguistique**  
Upon agreement with a qualified instructor, this course may be taken by an upper-year student in the Language and Linguistics concentration to explore a specific area of French linguistics. Regular meetings and directed readings.

**PREREQUISITES**  FREN 215/6.0 and permission of the Chair of Undergraduate Studies and permission of the Coordinator of Language and Linguistics.
GEOL 104/3.0  The Dynamic Earth  3L;1P
An introduction to the internal structure of the earth and to the dynamic processes which have shaped the earth’s surface. An integrated study of global tectonics and continental movement, rock genesis, mountain building, glaciation and geological time. Laboratories give an overview of the earth scientist’s toolbox including rock and mineral identification, geochronology, geomorphology and structural geology.
NOTE   Lab manual and materials: about $20.

GEOL 106/3.0  Environmental Geology and Natural Hazards  3L
The relationship between human-kind and our ever-changing planet, with a focus on natural geologic hazards (volcanic eruptions, earthquakes, landslides, tsunamis, mass movement, floods, extraterrestrial impacts, etc.), and environmental impacts which result from population and land-use expansion and our increased use of water, energy and mineral resources. A study of the sources and impact of pollution and global climate change. Public perception of and response to geological risk.

GEOL 107/3.0  History of Life  3L;1P
The history of life, from its inception four billion years ago to the present day, focusing on the inter-relationship between organic evolution and global change. Coevolution of early life and the atmosphere; development of marine animals and their ecosystems; invasion of the land; dinosaurs and their world; mass extinctions; the Age of Mammals; and hominid evolution. Lectures plus three three-hour laboratories.

GEOL 200/3.0  Oceanography  3L
Introduction to marine science. Topics include: ocean basins and their sediments; seawater chemistry/biochemistry; ocean waves, tides and currents; ocean-atmosphere interaction; polar to tropical organism communities; marine resources; environmental concerns; global change.
PREREQUISITE   PHYS 104/6.0 or PHYS 106/6.0 or PHYS 107/6.0 or PHYS 117/6.0 or CHEM 112/6.0 or CHEM 116/6.0 or BIOL 102/3.0 or BIOL 103/3.0 or GEOL 104/3.0 or GEOL 106/3.0 or GEOL 107/3.0.

GEOL 212/3.0  Introduction to Mineralogy  2L;2P
An introduction to the crystallography and crystal chemistry of rock-forming minerals for students not in the Geological Sciences. The structural, chemical and genetic aspects of the crystalline state as displayed by minerals are considered.
RECOMMENDATION   4U Chemistry is required.
COREQUISITE   GEOL 104/3.0 or permission of the Department.
EXCLUSION   No more than 3.0 units from GEOL 212/3.0; GEOL 232/3.0.

GEOL 221/3.0  Geological Field Methods  5P;2L
An introduction to the field study and description of surficial deposits, sedimentary, igneous and metamorphic rocks, and geological processes, based on geological features of the Kingston area. Descriptions, samples and measurements acquired on weekly field trips during the first part of the course will be analyzed, and the results will be recorded in maps, sections, data bases, and reports during the second part of the course.
PREREQUISITE   GEOL 104/3.0 or permission of the Department.
COREQUISITE   GEOL 232/3.0 or permission of the Department.

GEOL 232/3.0  Mineralogy  3L;3P
Characterization of rock- and soil-forming silicate and non-silicate minerals (their crystallography, optical and physical behaviour, and crystal chemistry). The structural, chemical and genetic aspects of the crystalline state as displayed by minerals are considered. Implications of mineral properties for the engineering behaviour of soils and rocks, and for human needs, are discussed.
RECOMMENDATION   4U Chemistry is required.
COREQUISITE   GEOL 104/3.0
EXCLUSION   No more than 3.0 units from GEOL 212/3.0; GEOL 232/3.0.
GEOL 235/3.0  **Genesis and Characterization of Solid Earth Materials**  3L;3P
Macroscopic and microscopic characterization of igneous, sedimentary and metamorphic rocks. Processes by which rocks are formed and transformed, and influence of genesis on shape, distribution, and rock-mass character of rock bodies. Implications and consequences of rock-forming processes for mineral exploration and production, fossil-fuel exploration and production, and engineering site investigation.
PREREQUISITE  GEOL 232/3.0.

GEOL 238/3.0  **Surficial Processes, Sedimentation and Stratigraphy**  3L;2P
An examination of the genetic link between surficial geological processes and the sedimentary record produced by these processes. Students obtain an integrated overview of the nature and operation of the Earth-surface environment. Topics include origin of sedimentary rocks and their sedimentary structures, depositional environments and stratigraphic successions; stratigraphic principles and their application to sedimentary basins, with implications for hydrocarbon genesis; interaction of natural processes with human society.
PREREQUISITE  GEOL 104/3.0 or permission of the Department.

GEOL 249/3.0  **Geophysical Characterization of the Earth**  3L;1T
The application of physical principles to examine and characterize the Earth at all scales. The Earth’s physical properties and dynamic processes will be assessed and evaluated by integrating such topics as gravity, seismology, magnetism, geochronology, and heat flow, as related to scientific and engineering problems.
COREQUISITES  GEOL 104/3.0 and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or [MATH 123/3.0 and MATH 124/3.0]) and (PHYS 104/6.0 or PHYS 106/6.0 or PHYS 107/6.0 or PHYS 117/6.0), or permission of the Department.
EXCLUSION  No more than 3.0 units from GEOL 249/3.0; GEOL 269/3.0.

GEOL 262/3.0  **Geological Aspects of Mineral Deposits**  3L;1.5P
The basic mineralogy and petrology of mineral deposits are examined. The formation and classification of mineral deposits, considering such aspects as tectonic setting, age, rock composition, geometry, and mineralogy are investigated. Emphasis is placed on the processes by which mineral deposits are formed and transformed, and their influence on mining and production. Laboratory work integrates geological information from the scale of hand samples to regional maps as tools to assist with mine design, estimation of ore grade and evaluation of issues related to ore processing.
PREREQUISITE  GEOL 104/3.0.
ONE-WAY EXCLUSION  May not be taken with or after GEOL 232/3.0; GEOL 362/3.0.

GEOL 269/3.0  **Physics of the Earth**  3L;1T
An examination of the physical principles and properties exhibited by the Earth which can be used to understand its origin, structure, dynamic processes, and evolution through time. Topics such as gravity, seismology, magnetism, geochronology, and heat flow are discussed in conjunction with the unifying theory of plate tectonics.
RECOMMENDATION  4U Physics is required.
COREQUISITES  GEOL 104/3.0 and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or [MATH 123/3.0 and MATH 124/3.0]), or permission of the Department.
EXCLUSION  No more than 3.0 units from GEOL 249/3.0; GEOL 269/3.0

GEOL 282/3.0  **Managing Earth Systems: Resources and Environment**  2L;3P
An earth-system engineering perspective on the nature, acquisition and utilization of energy, mineral and water resources, with particular emphasis on the environmental considerations in their extraction, processing, and use. Criteria for designing resource exploration programs are examined. Practical exercises, projects and seminars (team and individual) deal with these issues, and include the design of risk-management plans, environmental life-cycle assessments, sustainable systems and ore-reserve estimations.
PREREQUISITES  GEOL 221/3.0 or GEOL 232/3.0, or permission of the Department.
GEOL 300/3.0  Geological Field School
An intensive two-week course taken immediately after final examinations in second year (see Sessional Dates). Teams of students use geological field methods as the basis for an assessment of overburden and bedrock for a specific outcome. A final report is presented and defended. The cost of accommodation and food ($600 in 2011, but subject to change) will be borne by the student.
PREREQUISITES GEOL 221/3.0 and GEOL 235/3.0 or permission of the Department.

GEOL 319/3.0  Applied Geophysics
3L;1T
Techniques of geophysics (including gravity, magnetic, electrical, and seismic) applied to engineering problems, including resource exploration and site investigation. Physical principles, instrumentation, field procedures, data interpretation, and design of field programs are covered for each of the major methods.
PREREQUISITES GEOL 249/3.0 and MATH 232/3.0, or permission of the Department.

GEOL 321/3.0  Analysis of Rock Structures
3L;3P
Application of material mechanics to rock deformation. The nature, origin and interpretation of deformation and fracture of rocks, and the application of structural methods to site-investigation and resource exploitation. Topics include geometric, kinematic and dynamic analysis; mechanical analysis (stress and strain theory); geologic mapping and map interpretation; engineering rockmass classification and rock engineering in structurally controlled ground, introduction to geotectonics with examination of selected tectonic associations. Application of structural geology and geomechanics to design issues related to construction, mining, natural hazards, and resource exploitation. Required full-day field trip and several half day excursions.
PREREQUISITE GEOL 300/3.0 or permission of the Department.

GEOL 323/3.0  Quaternary Glacial Geology
3L;2P;1S
Quaternary paleoclimates and ice ages. Glacial and proglacial processes, environments and landforms. Dating techniques. Glacial-interglacial history and stratigraphy of selected areas in Canada. One or more one-day field trips may be required. Not offered in 2011-12.
PREREQUISITE GEOL 238/3.0 or permission of the Department.

GEOL 333/3.0  Terrain Evaluation
3L;2P
The nature and origin of surficial deposits and landforms are investigated with emphasis on their recognition and their inter-relationships with, and influence on, engineering activities. Air-photo interpretation is a major component of the course. Techniques of remote sensing are investigated. Students design terrain-evaluation maps, based on air-photo studies to solve scientific and engineering problems.
PREREQUISITE GEOL 104/3.0 or GEOL 106/3.0 or GPHY 208/3.0 or GPHY 242/3.0 or permission of the Department.

GEOL 337/3.0  Paleontology
3L;2P
Review of the major groups of invertebrate fossils, emphasizing functional morphology, and geological significance. Introduction to paleoecology and biostratigraphy. Course includes a required paleontological field trip.
PREREQUISITE GEOL 238/3.0 or (a grade of B in GEOL 107/3.0) or BIOL 202/3.0 or permission of the Department.

GEOL 343/3.0  Hydrogeology
3L;2P
Development of the equations governing flow and transport; sensitivity to sub-surface complexities. Field instrumentation, installation and sampling protocols, elements of groundwater investigation. Assessment of measurement techniques and interpretation of fundamental hydrogeological properties. Groundwater occurrence, flow system analysis, with a focus on designing extraction scheme.
PREREQUISITES GEOL 238/3.0 and (CHEM 112/6.0 or CHEM 116/6.0) or permission of the Department.

GEOL 352/3.0  Topics in Mineralogy
2L;3P
Through lectures, seminars and assigned readings selected topics in mineralogy are explored. Emphasis on the current literature and the details of mineralogical phenomena will lead to better understanding of petrologic systems.
NOTE Next offered in 2012-2013, and alternate years thereafter.
PREREQUISITE GEOL 232/3.0 or GEOL 212/3.0.
GEOL 362/3.0  Petrology Applied to Ore Deposits  3L;3P
Characterization of major ore deposit types using petrological, geochemical and geophysical engineering sciences. Tectonic setting, age, rock composition, geometry, mineralogy and textures, geochemical and geophysical signatures. Metallogenic epochs and provinces. Design and evaluation of ore deposit models and exploration programs, including ore processing and environmental issues. Laboratory work integrates techniques of ore microscopy to determine paragenetic sequences, estimation of ore grade and evaluation of issues related to ore processing and site contamination.
PREREQUISITE GEOL 235/3.0 or permission of the Department.

GEOL 365/3.0  Geochemical Characterization of Earth Processes  3L;2P
The application of thermodynamics and kinetics to the understanding of natural processes in the Earth Sciences. Distribution of the elements, and practical uses of isotopes and elemental tracers. Geochemical actions and transactions within, and among, the lithosphere, hydrosphere, atmosphere and biosphere, including the impact of human evolution and environmental geochemistry. Practical application of geochemistry to solving problems in natural systems will be emphasized. A practical involving problems, laboratory experience and field experience will be part of the course.
PREREQUISITES (CHEM 112/6.0 or CHEM 116/6.0) and GEOL 232/3.0 and GEOL 235/3.0, or permission of the Department.

GEOL 368/3.0  Carbonate Sedimentology  3L;3P
The origin, composition and diagenesis of carbonate rocks. Study of modern carbonate sediments and depositional environments; development of facies models; petrographic and geochemical analysis of limestones and dolostones. Required extended field trip during term.
PREREQUISITE GEOL 238/3.0 or permission of the Department.

GEOL 409/3.0  Applied Geophysics Laboratory  1L;3P;4T
Local field exercises and laboratory assignments using a variety of exploration methods. Lectures will be used to teach basic instrument theory, and to teach the principles of exploration program design. The course includes a four-day field exercise to design and carry out an integrated geophysical investigation. Evaluation is based on submitted technical reports arising from the practical assignments.
NOTE Not offered in 2011-2012.
PREREQUISITE GEOL 319/3.0 or permission of the Department.

GEOL 418/3.0  Petroleum Geology  3L;3P
The origin, migration and accumulation of petroleum resources, emphasizing typical reservoir styles, potential reservoir lithologies, methods of exploration and basic concepts of formation evaluation. Concepts and applications equip students with the basic principles necessary to undertake petroleum industry exploration and production. Laboratory exercises include a major exploration problem and presentation.
NOTE Next offered in 2011-2012 and in alternate years thereafter.
PREREQUISITES GEOL 238/3.0 and GEOL 321/3.0, or permission of the Department.

GEOL 421/3.0  Igneous Petrology  2L;3P
Rock classification and tectonic associations, petrochemistry, petrogenesis; the origin and differentiation of primary magmas, plate tectonics and magmatic evolution. Phase diagrams of igneous minerals. Laboratory study of rock suites and special projects.
NOTE Next offered in 2011-2012 and in alternate years thereafter.
PREREQUISITE GEOL 235/3.0.

GEOL 422/3.0  Metallogeny and Mineral Exploration  2L;3P
Integration of geological, mining and metallurgical engineering, economic, political, social and environmental issues, and application of ore deposit modeling and geophysical and geochemical exploration methods, in the design of comprehensive exploration programs for the discovery and development of Earth materials in an economic and environmentally responsible manner.
NOTE Next offered in 2014-2015, and alternate years thereafter.
COREQUISITE GEOL 362/3.0 or permission of the Department.
GEOL 435/3.0  
Topics in Petrology and Mineral-Deposits Geology  
3S;L
A course on a topic in the field of igneous and metamorphic petrology, geochemistry, and/or mineral-deposits geology.

NOTE  Consult the Chair of Undergraduate Studies for details of specific course offerings each academic year.

PREREQUISITE  Level 3 or above in a GEOL Major, Medial or Specialization Plan.

GEOL 438/3.0  
Topics in Sedimentary and Petroleum Geology  
3S/L
A course on a topic in the field of sedimentary geology, sedimentary geochemistry, basin analysis and/or petroleum geology.

NOTE  Consult the Chair of Undergraduate Studies for details of specific course offerings each academic year.

PREREQUISITES  Level 3 or above in a GEOL Major, Medial or Specialization Plan.

GEOL 452/3.0  
Instrumental Techniques Applied to the Study of Solids  
2L;3P
The theory and practical aspects of the techniques of X-ray powder diffraction and scanning electron microscopy are studied. Other techniques including Mossbauer, infra-red spectroscopy, and nuclear magnetic resonance spectroscopy will also be covered. An extensive term project is required where the student employs these techniques to study a material of their choice.

NOTE  Next offered in 2012-2013 and in alternate years thereafter.

PREREQUISITE  GEOL 232/3.0 or permission of the Department.

GEOL 463/3.0  
Methods of Geological Data Analysis  
2L;3P
Digital and analog methods, for collection, correction, and analysis of geologic data. Field collection using GPS and hand computers. Geographic Information Systems technology, and acquisition and distribution of data across the Internet. Air photo and remotely-sensed imagery to evaluate geologic sensing systems including Radar and Hyperspectral methods. Labs on resource and environment assessment.

NOTE  Next offered in 2012-2013 and alternate years thereafter.

EXCLUSION  No more than 3.0 units from GPHY 243/3.0 (formerly GISC 201/3.0, GISC 410/3.0); GPHY 463/3.0.

GEOL 465/3.0  
Exploration Geochemistry  
2L;3P

NOTE  Next offered in 2012-2013 and alternate years thereafter.

PREREQUISITE  GEOL 362/3.0 or permission of the Department.

GEOL 466/3.0  
Isotopes and the Environment  
3L;2P
This course is designed to expose advanced students in the fields of biology, chemistry, geography or geology to the principles of stable isotope and radiogenic isotope systematics in natural processes. Emphasis will be placed on the use of isotopes in tracing elemental cycles, biological cycles and hydrologic cycles and how some isotopes can be used to place constraints on the timing of specific events in these cycles.

NOTE  Next offered in 2011-2012 and alternate years thereafter.

PREREQUISITE  CHEM 112 or permission of the Department.

GEOL 472/3.0  
Economic Analysis Methods in Geological Engineering  
3L;1T
Cost, risk, and return characteristics of mineral exploration; introduction to economic evaluation; cash flow and time value concepts; discounted cash flow methods; mining taxation considerations; sensitivity and risk analysis techniques; exploration economics and strategies; evaluation of exploration projects; exploration planning issues.

PREREQUISITES  GEOL 235/3.0 and permission of the Department.
GEOL 478/3.0  Terrigenous Clastic Sedimentology  3L;3P/S
NOTE  Next offered in 2011-2012 and alternate years thereafter.
PREREQUISITE  GEOL 238/3.0 or permission of the Department.

GEOL 481/3.0  Advanced Structural Analysis  2L;3P
Applications of the principles of brittle and ductile deformation to the fabric analysis of rocks in the optimization of strategies for open-ended resource exploration, resource engineering, continental tectonics studies, and geotechnical engineering problems. Emphasis is on fracture, fault, and vein analysis; structures in fold and thrust belts and continental collision zones; and studies of superposed deformation and their impact on effective and economical mineral resource development.
NOTE  Next offered in 2011-2012 and alternate years thereafter.
PREREQUISITE  GEOL 321/3.0 or permission of the Department.

GEOL 485/3.0  Environmental Aqueous Geochemistry  3L
Examination of rock-water interaction, and the geological controls on the chemical evolution and anthropogenic modification of surface- and ground-water, as applied to environmental problems. Application of thermodynamics, activity diagrams, and computer models in the design of assessment systems and mitigation schemes for problems of water contamination. Students evaluate, and design solutions related to, case studies in the areas of geochemical hazards to human health and the environmental impacts of mining, including acid mine drainage.
NOTE  Next offered in 2012-2013 and alternate years thereafter.
PREREQUISITE  GEOL 321/3.0 or permission of the Department.

GEOL 488/3.0  Geology of North America  3L
An advanced course discussing the principles of earth evolution as exemplified by North America. The holistic approach illustrates the way in which geodynamics, geochemistry, sedimentation, paleo-biology and oceanography are used to unravel the history of the continent.
PREREQUISITE  GEOL 107/3.0, GEOL 235/3.0, GEOL 249/3.0, GEOL 238/3.0, GEOL 300/3.0 and GEOL 365/3.0 or permission of the Department.
COREQUISITE  GEOL 321/3.0

GEOL 543/6.0  Research and Thesis
Directed, independent research on geological problems. The thesis may be based on data or material collected during summer fieldwork or in the fall/winter around Kingston, on laboratory research, or using published data. Monthly tutorials will cover various aspects of literature review, writing skills and oral presentations. A seminar concerning the thesis topic will be presented at the end of Winter term.
NOTE  An electronic copy of the final thesis, formatted to the supervisor’s satisfaction, must be uploaded to Qspace. The supervisor may require one hardcopy.
PREREQUISITE  Level 4 in a GEOL Major or Specialization Plan and permission of the Department.
GNDS 120/3.0  Women, Gender, Difference  2L;1T
This course explores women, gender, and difference from feminist and anti-racist perspectives. It identifies the ways in which women’s activism, politics, and experiences intersect with other gendered identifications such as race, location, class, (dis)ability, and sexuality. Lectures and texts will introduce feminism, the body, colonialism, gender performance, and strategies of resistance.
NOTE    Also offered as a distance course. Consult Continuing and Distance Studies.
EQUIVALENCY    WMNS 101/3.0; WMNS 102/3.0; WMNS 120/3.0.

GNDS 125/3.0  Gender, Race and Popular Culture  2L;1T
Explores popular culture from feminist and anti-racist perspectives, with attention to sexuality, gender, race and nation in a variety of media.
NOTE    Also offered as a distance course. Consult Continuing and Distance Studies.
EQUIVALENCY    WMNS 125/3.0; WMNS 225/3.0.

GNDS 211/3.0  Feminist Histories  3L
A study of feminist narratives and gender politics in relationship to women’s lives from the 17th century forward with an emphasis upon global histories.
NOTE    Also offered as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE    GNDS 120/3.0 or GNDS 125/3.0 or WMNS 101/3.0 or WMNS 102/3.0 or WMNS 120/3.0 or WMNS 225/3.0 or permission of the Department.
EQUIVALENCY    WMNS 211/3.0.

GNDS 212/3.0  Racism, Colonialism and Resistance  2L;1T
Decades after the formal decolonization of former colonies, the power relations of the colonial world - and the racism it engendered - remain deeply embedded in the West, and are intrinsic to contemporary relations of globalization. This course explores European colonialism; historical and social constructions of ‘race’; the ongoing occupation of Indigenous peoples’ territories; and contemporary racism.
PREREQUISITE    Level 2 or permission of the Department.
EQUIVALENCY    WMNS 212/3.0.

GNDS 215/3.0  Introduction to Sexual and Gender Diversity  2L;1T
This course is an introduction to studies in sexuality and gender diversity. It will survey the field and include topics such as classical inquiries into sexuality, contemporary theories on Lesbian, Gay, Bisexual, Transgender and Queer identities, sexual movements, human rights, sexual morality, pornography, global sex trade, and queer cultural production. This course is open to all students but required for students enrolled in the Certificate in Sexual and Gender Diversity. It is designed to introduce SXGD students to the field and prepare them for selecting future courses.
PREREQUISITE    Level 2 or permission of the Department.
EQUIVALENCY    WMNS 215/3.0; WMNS 310/3.0.

GNDS 311/3.0  Feminist Thought  3L
This course examines different forms and critiques of feminism, and major issues in the development of feminist activism and feminist theory, including challenges to the colonial history of Western feminism. Students engage with current debates in feminism, gender and queer theory, and anti-racism.
PREREQUISITE    Level 3 or permission of the Department.
EQUIVALENCY    WMNS 311/3.0.

GNDS 312/3.0  Black Feminisms  3L
Studies in black women’s and black gender politics in Canada, the U.S.A., and the Caribbean.
PREREQUISITE    Level 3 or permission of the Department.
EQUIVALENCY    WMNS 312/3.0.
GNDS 315/3.0 Feminist Pedagogies
This course looks at teaching and learning, in formal and informal educational settings, from feminist perspectives. Explores difference (race, class, gender, sexuality, ability), social justice and activism, power and empowerment, critique and transformation, experience, and reflexivity. Students will develop their feminist pedagogical values and skills.
PREREQUISITE Level 3 or permission of the Department.
EQUIVALENCY WMNS 315/3.0.

GNDS 320/3.0 HIV/AIDS Movements: Histories of Community Health Activism
Centers historical movements in communities affected by AIDS as sources of unique critical theories of disease, health, power, and social change. Highlights how testimonies, cultural and creative work, and social research in community-based AIDS activism inspire current critical theory in feminist, queer, disability, and critical race studies.
PREREQUISITE Level 3 or permission of the Department.

GNDS 321/3.0 Gendering Opportunities – Women’s Work
This course offers an interdisciplinary framework of feminist thought on women, work and employment opportunities. It takes a comparative look at socio-political feminist theories on work and employment in different social and cultural contexts.
PREREQUISITE Level 3 or permission of the Department.
EQUIVALENCY WMNS 321/3.0.

GNDS 326/3.0 Gender, Diaspora and the Arts
This course explores transnational realities and diasporic experience, with particular attention to gender and sexuality, through the arts.
PREREQUISITE Level 3 or permission of the Department.
EQUIVALENCY WMNS 326/3.0, WMNS 426/3.0.

GNDS 330/3.0 Gender and the Global South
This course examines gender in an international context with emphasis on current global issues of women and development. Topics include gendering international political economy, women’s health and sexualities, and forms of struggle, resistance and change in non-western contexts.
PREREQUISITE Level 3 or permission of the Department.
EQUIVALENCY WMNS 330/3.0.

GNDS 335/3.0 Gendered Alternatives: Science Fiction and Fantasy
This course examines ways in which science fiction and fantasy writers use technology and the fantastic as tools for the deconstruction and reconstruction of gendered categories. The emphasis is on contemporary novels as offering deliberate and sophisticated interventions in major discourses in gender studies, with attention to issues of race, class, and nationhood.
PREREQUISITE Level 3 or permission of the Department.
EQUIVALENCY WMNS 335/3.0; WMNS 217/3.0.

GNDS 340/3.0 Indigenous Women, Feminism and Resistance
Examines scholarship, creative works, and activism by Indigenous women as a basis for introducing Indigenous feminist thought. Cases examine the many ways that Indigenous women and LGBTQ/Two-Spirit people participate in Indigenous nations, experience and resist settler colonialism, and work for Indigenous decolonization.
PREREQUISITE Level 3 or permission of the Department.
EQUIVALENCY WMNS 340/3.0.

GNDS 345/3.0 Research Methods in Gender Studies
This course provides a critical interdisciplinary introduction to methods and methodological issues in gender studies research.
PREREQUISITE Level 3 and GNDS 120/3.0 or GNDS 125/3.0 or WMNS 101/3.0 or WMNS 102/3.0 or WMNS 120/3.0 or WMNS 225/3.0.
EQUIVALENCY WMNS 230/3.0; WMNS 345/3.0.

GNDS 350/3.0 Feminism, the Body and Visual Culture
This course will explore how the visual constructs and/or subverts ‘woman’ as a cultural category. An emphasis will be placed upon the female body as it intersects with class and race. Readings from art history, history, cultural theory and feminist theory will be considered.

**PREREQUISITE** Level 3 or permission of the Department.

**EQUIVALENCY** *WMNS 350/3.0.*

**GNDS 351/3.0**  **Gender, Dress and Fashion**  
An investigation of gender as it is constructed in historical and contemporary dress and fashion. The focus will be upon visual culture and material culture.

**PREREQUISITE** Level 3 or permission of the Department.

**EQUIVALENCY** *WMNS 351/3.0.*

**GNDS 352/3.0**  **Gender, Cloth and Globalization**  
This course will examine the gendered history of the production and consumption of cloth, the impact of changing technologies on the textile industry since the 18th century, and the ensuing tensions between the industrial and the hand-crafted.

**PREREQUISITE** Level 3 or permission of the Department.

**EQUIVALENCY** *WMNS 352/3.0.*

**GNDS 360/3.0**  **Masculinities: Cross Cultural Perspectives**  
Considers the main themes in the history of masculinity and male sexuality, especially ‘dissident’ or subaltern masculinities internationally, and women’s roles in shaping ideologies of masculinity. Topics include the theorization of masculinity, initiation rituals, family and parenting, violence, sports, homophobia, sexual practices, colonialism, science/epistemology and men and feminism.

**PREREQUISITE** Level 3 or permission of the Department.

**EQUIVALENCY** *WMNS 360/3.0.*

**GNDS 365/3.0**  **Jewish Women in Historical Perspective**  
Jewish history from biblical to modern times using gender as a category of analysis; methods and sources of social history; stated and unstated constructions of gender and sexuality; use of materials written by men for pre-modern women’s history; tensions between competing traditions; influences of paganism, Islam, Christianity.

**PREREQUISITE** Level 3 or permission of the Department.

**EQUIVALENCY** *WMNS 365/3.0.*

**GNDS 370/3.0**  **Writing Lives: Feminism and Women’s Writing**  
This course will explore how women writers employ narrative as a creative and political tool to dramatize subjectivity and subvert cultural constructs of womanhood. Issues to be considered include the association of an anti-narrative style with ‘femininity’, and the use of autobiography to position marginalized perspectives. An emphasis will be placed on narratives concerning any of gender, sexuality, ‘race’, class, age and ability. Fiction and poetry will be complemented by readings from feminist literary theory.

**PREREQUISITE** Level 3 or permission of the Department.

**EQUIVALENCY** *WMNS 370/3.0.*

**GNDS 375/3.0**  **Queer/Race Studies**  
This course explores current theory in queer studies by centrally examining the interdependence of race, sexuality, and gender. The course foregrounds the critical insights that follow sustained study of race in queer studies, and of queer matters in critical race, Indigenous, global, and diaspora studies.

**PREREQUISITE** Level 3 or permission of the Department.
GNDS 401/6.0  Debates on Feminism and Islam  3S
This course focuses on the theories, political activities, and organizing of Islamic feminists. It situates itself in relation to contemporary debates around the status of women in Islam and problematizes the nature of feminism and its assumed relationship to Islam. The course will focus on questions of religion, race, class, and nationalism in relation to Islam and Muslim women. This course contains an intensive and independent study component.
PREREQUISITE  Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.
EXCLUSION  No more than 1 course from GNDS 401/6.0; WMNS 401/3.0; WMNS 425/3.0 (2008/09).

GNDS 410/6.0  Special Topics in Gender Studies  3S
Offered when faculty resources permit, these courses are intensive analyses of particular areas of gender studies interdisciplinary research. Details regarding specific topics will be available from the Head of the Department on an annual basis.
PREREQUISITE  Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.
EQUIVALENCY  WMNS 410/6.0.

GNDS 412/6.0  Seminar in Sexual and Gender Diversity  3S
This course provides an advanced study in specific topics and theories relating to the fields of sexual and gender diversity. Topics may change from year to year. This course contains an intensive and independent study component.
PREREQUISITE  Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.
EXCLUSION  No more than 1 course from GNDS 412/6.0; WMNS 412/3.0.

GNDS 420/6.0  Special Topics in Gender Studies  3S
Offered when faculty resources permit, these courses are intensive analyses of particular areas of gender studies interdisciplinary research. Details regarding specific topics will be available from the Head of the Department on an annual basis.
PREREQUISITE  Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.
EXCLUSION  No more than 1 course from GNDS 420/6.0; WMNS 420/3.0.

GNDS 421/6.0  Gender and Poverty  3S
This course is designed to provide an indepth exploration of poverty issues in Canada. It includes discussions about working poor and welfare poor and addresses how race and sexuality can compound the issues of poverty. The course will also acknowledge how poor people are actively engaged in attempting to improve their lives through anti-poverty organizing. This course contains an intensive and independent study component.
PREREQUISITE  Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.
EXCLUSION  No more than 1 course from GNDS 421/6.0; POLS 318/3.0; WMNS 421/3.0.

GNDS 422/6.0  Women and Gender South of the Sahara  3S
An interdisciplinary study of selected topics such as culture, ethnicity, health, sexuality, religion, economics, politics, African feminisms, agriculture and environment relevant to the study of women and gender in Africa south of the Sahara. This course contains an intensive and independent study component.
PREREQUISITE  Level 3 or above in a GNDS Major or Medial or SXGD or DEVS Major or Medial Plan, or permission of the Department.
EXCLUSION  No more than 1 course from GNDS 422/6.0; WMNS 422/3.0.

GNDS 425/6.0  Special Topics in Gender Studies  3S
Offered when faculty resources permit, these courses are intensive analyses of particular areas of gender studies interdisciplinary research. Details regarding specific topics will be available from the Head of the Department on an annual basis.
PREREQUISITE  Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.
EXCLUSION  No more than 1 course from GNDS 425/6.0; WMNS 425/3.0.
GNDS 427/6.0  Towards the Human: Race and the Politics of Expression  3S
This interdisciplinary seminar will explore the ways in which modernity shapes cultural ‘difference’ and ‘the human’. Readings will focus on the racial and geographic contours of colonialism, transatlantic slavery and The Enlightenment in order to bring into focus communities that challenge racial-sexual categorization through creative expression (music, fiction, poetry, and visual art as well as theory). This course contains an intensive and independent study component.
PREREQUISITE  Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.
EXCLUSION  No more than 1 course from GNDS 427/6.0; WMNS 427/3.0.

GNDS 428/6.0  Gender Performance  3S
This advanced seminar addresses some of the many meanings and manifestations of ‘gender performance’ in literature and popular culture. Primary sources include a wide variety of media - novels, plays, poems, films, magazines and cartoons. Primary material will be balanced with careful consideration of work in areas such as feminist theory, identity politics, queer and performance theory. This course contains an intensive and independent study component.
PREREQUISITE  Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.
EXCLUSION  No more than 1 course from GNDS 428/6.0; WMNS 428/3.0.

GNDS 429/6.0  Special Topics in Gender Studies  3S
Offered when faculty resources permit, these courses are intensive analyses of particular areas of gender studies interdisciplinary research. Details regarding specific topics will be available from the Head of the Department on an annual basis.
PREREQUISITE  Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.
EXCLUSION  No more than 1 course from GNDS 429/6.0; WMNS 429/3.0.

GNDS 430/6.0  Indigenous Politics: Gender, Nation and Sovereignty  3S
Examines critical theories and case studies of politics and governance in Indigenous and settler societies, based in Indigenous feminist thought. Cases examine the relation between nationality, gender, and sexuality within colonial relations of rule, methods of Indigenous governance, Indigenous sovereignty struggles, and theories and practices of decolonization. This course contains an intensive and independent study component.
PREREQUISITE  Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.
EXCLUSION  No more than 1 course from GNDS 430/6.0; WMNS 430/3.0.

GNDS 440/6.0  Social Justice Practicum: Learning through Community Organizing and Activism  3S/P
A seminar in which students work in and outside the classroom on community organizing projects. Students reflect on how feminist, anti-racist, and queer theory can be integrated with real world practices.
PREREQUISITE  Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.
EQUIVALENCY  WMNS 440/6.0.

GNDS 445/6.0  Special Topics in Gender Studies  3S
Offered when faculty resources permit, these courses are intensive analyses of particular areas of gender studies interdisciplinary research. Details regarding specific topics will be available from the Head of the Department on an annual basis.
PREREQUISITE  Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.
EXCLUSION  No more than 1 course from GNDS 445/6.0; WMNS 445/3.0.
**GNDS 465/6.0  Diaspora and Feminisms in Jewish Contexts**

Using tools provided by diverse critical theories, practices, and textual traditions this course emphasizes reading for gender in Jewish contexts. We explore how these skills transfer to personal, political or purely academic engagement with other forms of boundary-crossing. This course contains an intensive and independent study component.

**PREREQUISITE**  Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.

**EXCLUSION**  No more than 1 course from GNDS 465/6.0; WMNS 465/3.0.

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**GNDS 510/6.0  Directed Special Studies**

In consultation with the Head of the Department, students arrange their reading with individual Gender Studies faculty, and are expected to write reports on their readings and to discuss them throughout the term with that faculty supervisor.

**PREREQUISITE**  Level 3 or above and registered in a GNDS Major or Medial or SXGD Plan or permission of the Department.

**EXCLUSIONS**  No more than 6.0 units from GNDS 510/6.0; GNDS 520/3.0; GNDS 530/3.0.

**EQUIVALENCY**  WMNS 510/6.0.

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**GNDS 520/3.0  Directed Special Studies**

In consultation with the Head of the Department, students arrange their reading with individual Gender Studies faculty, and are expected to write reports on their readings and to discuss them throughout the term with that faculty supervisor.

**PREREQUISITES**  Level 3 or above and registered in a GNDS Major or Medial or SXGD Plan or permission of the Department.

**EXCLUSION**  No more than 6.0 units from GNDS 510/6.0; GNDS 520/3.0; GNDS 530/3.0.

**EQUIVALENCY**  WMNS 520/3.0.

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**GNDS 530/3.0  Directed Special Studies**

In consultation with the Head of the Department, students arrange their reading with individual Gender Studies faculty, and are expected to write reports on their readings and to discuss them throughout the term with that faculty supervisor.

**PREREQUISITES**  Level 3 or above and registered in a GNDS Major or Medial Plan or SXGD Plan or permission of the Department.

**EXCLUSION**  No more than 6.0 units from GNDS 510/6.0; GNDS 520/3.0; GNDS 530/3.0.

**EQUIVALENCY**  WMNS 530/3.0.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Schedule</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>GPHY 101/3.0</td>
<td>Human Geography</td>
<td>3L; 1.5T bi-weekly</td>
<td>The fundamentals of human geography including the meanings of place, the impacts of globalization, multiculturalism, population change and movement, environmental history and politics, cultural geography, issues of uneven resource distribution, the role of colonialism in the modern shape of the world, agricultural geography, and urban geography.</td>
<td>NOTE Also offered as a distance course. Consult Continuing and Distance Studies. NOTE Also offered at the Bader International Study Centre, Herstmonceux. NOTE Field trip: estimated cost $30.</td>
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<tr>
<td>GPHY 102/3.0</td>
<td>Earth System Science</td>
<td>3L; 3P</td>
<td>This course introduces the major concepts studied in Earth System Science. The fundamental processes and interrelationships between the atmosphere, oceans, biosphere and the lithosphere are investigated to serve as a basis for understanding natural systems, particularly at or near the Earth’s surface.</td>
<td>NOTE Also offered at the Bader International Study Centre, Herstmonceux. NOTE Field trip: estimated cost $30.</td>
</tr>
<tr>
<td>GPHY 103/3.0</td>
<td>Water Resources</td>
<td>3L</td>
<td>Water is becoming a major global issue due to increased demand and pollution pressures. This course examines dimensions of the world’s need for this critical resource. Topics include water distribution and availability, different users, water treatment, pollution issues, freshwater ecosystem conservation, and water management and allocation. NOTE Field trips: estimated cost $30. NOTE This course is not a prerequisite for a GPHY Plan. Students interested in pursuing a GPHY Plan should take GPHY 101/3.0 and GPHY 102/3.0.</td>
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</tr>
<tr>
<td>GPHY 104/3.0</td>
<td>Forests as a Global Resource</td>
<td>3L</td>
<td>Forests are a critical global resource, containing significant biodiversity, regulating CO₂ in the atmosphere, and providing cultural and economic benefits to society. Yet forests are threatened by over-harvesting, fire, development and environmental change. This course examines the ecology, distribution, and sustainability of the world’s forests.</td>
<td>NOTE Field trips: estimated cost $30. NOTE This course is not a prerequisite for a GPHY Plan. Students interested in pursuing a GPHY Plan should take GPHY 101/3.0 and GPHY 102/3.0.</td>
</tr>
<tr>
<td>GPHY 207/3.0</td>
<td>Principles of Biogeography</td>
<td>3L; 3P</td>
<td>An examination of ecological and earth system processes that affect the dynamics of organisms, their spatial patterns and their variability in time. PREREQUISITE 3.0 units from GPHY 102/3.0; BIOL; GEOL or permission of the Department.</td>
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<tr>
<td>GPHY 208/3.0</td>
<td>Principles of Geomorphology and Pedology</td>
<td>3L; 3P</td>
<td>Physical and chemical processes at the earth’s surface that result in the development of landscapes and their soils. Topics include soil formation and weathering, erosion, and deposition by water, wind, and ice. NOTE Field trip: estimated cost $25. PREREQUISITE GPHY 102/3.0 or permission of the Department.</td>
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<tr>
<td>GPHY 209/3.0</td>
<td>Principles of Hydroclimatology</td>
<td>2L; 3P</td>
<td>The principles of energy and water exchange between the atmosphere, surface and subsurface. The hydrological cycle, radiation, and energy balances are used as conceptual frameworks. PREREQUISITE GPHY 102/3.0 or permission of the Department.</td>
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</tr>
<tr>
<td>GPHY 210/3.0</td>
<td>Geographical Perspectives on Global Change</td>
<td>3L; 1.5P bi-weekly</td>
<td>An interdisciplinary investigation of the causes and impacts of global changes brought about by human activities and natural processes. Includes human impacts on the atmosphere, soils, plants, animals, water and geomorphological processes; ecological relationships; natural resource management; and natural hazards. PREREQUISITE 3.0 units from GPHY 101/3.0 or GPHY 102/3.0 or BIOL 102/3.0 or BIOL 103/3.0 or BIOL 110/3.0 or BIOL 201/3.0 or BIOL 202/3.0.</td>
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</tbody>
</table>
GPHY 227/3.0  Cities: Geography, Planning and Urban Life  3L;1T
The city from a geographical and planning perspective. Topics include theories of urbanism, mega and world cities, competitiveness, land use planning and design, surburbanization and sprawl, new urban identities and culture, retailing, public space, private and temporary cities, urban poverty, politics and governance.
PREREQUISITE  GPHY 101/3.0 or permission of the Department.

GPHY 228/3.0  Geographies of the Global Political Economy  3L;1T
This course examines how geographers understand the global economic system. Topics include globalization, regional economic integration, transnational production and marketing strategies of firms, new patterns of consumption, the rise of the service economy, and work and employment in the new economy.
PREREQUISITE  GPHY 101/3.0 or permission of the Department.

GPHY 229/3.0  Place, Space, Culture and Social Life  3L;1T
The role of place and space in understanding how social identities (gender, sexuality, race, nationality, class) are constructed and contested. Topics include the spaces and meanings of the body, home, work, leisure and consumption, cultural landscapes, constructions of nature, globalisation and issues of knowledge, power and imperialism.
NOTE  Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE  GPHY 101/3.0 or permission of the Department.

GPHY 240/3.0  Introduction to Qualitative Methods in Geography  3L;2P
An introduction to basic issues in research with human participants, and the qualitative methods commonly employed in such research in geography. Where relevant, students may be introduced to computer software used in qualitative research.
PREREQUISITE  GPHY 101/3.0 or GPHY 102/3.0, or permission of the Department.

GPHY 242/3.0  Remote Sensing I: Image Interpretation and Measurement  3L;2P
The physical principles and practices of collecting, analyzing and interpreting various remote sensing data from the visible, infrared, and microwave regions of the electromagnetic spectrum are examined. In addition, the display, enhancement and interpretation of various digital remote sensing data, from airborne to satellite scales, is emphasized. Enrolment is limited.
PREREQUISITE  GPHY 101/3.0 or GPHY 102/3.0, or permission of the Department.

GPHY 243/3.0  Geographic Information Science  3L;2P
An introduction to the basic principles, techniques and applications of Geographic Information Science. Students will learn concepts of Global Positioning Systems (GPS), georeferencing, vector and raster based models and the nature of geospatial data.
PREREQUISITES  (GPHY 101/3.0 and GPHY 102/3.0) or (BIOL 102/3.0 and BIOL 103/3.0) or (GEOL 104/3.0 and GEOL 107/3.0) or permission of the Department.
EXCLUSION  No more than 3.0 units from GPHY 243/3.0; GEOL 463/3.0.
EQUIVALENCY  GISC 201/3.0; GISC 410/3.0.

GPHY 244/3.0  Data Collection, Management and Analysis  3L;2P
An introduction to the theory, methods, and practical issues in assessing, accessing, and maintaining data sources and database systems and related tools for the manipulation and analysis of data. Students will learn concepts of database management and computer programming and will apply these concepts to the preparation, manipulation, analysis, and presentation of spatial and tabular data.
PREREQUISITES  (GPHY 101/3.0 and GPHY 102/3.0) or (BIOL 102/3.0 and BIOL 103/3.0) or (GEOL 104/3.0 and GEOL 107/3.0) or permission of the Department.
EQUIVALENCY  GISC 202/3.0.
GPHY 247/3.0  Introduction to Quantitative Methods in Geography  3L;2P
An introduction to the essentials of quantitative analysis and presentation of geographic data currently employed in research in geography. Lectures are complemented by a series of hands-on laboratory exercises to introduce relevant software and demonstrate applications appropriate to geographic inquiry.
PREREQUISITE  GPHY 101/3.0 or GPHY 102/3.0.
EXCLUSION  No more than 3.0 units from BIOL 243/3.0; CHEE 209/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0 (formerly PHED 251/3.0); NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 261/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0; COMM 162/3.0.

GPHY 250/3.0  The Geography of Canada  3L
A regional examination of how economic, political, cultural, and environmental factors shape relationships between land and people in Canada. Emphasis on geographical patterns of development and on the analytical and historical roots of public policy.
PREREQUISITE  GPHY 101/3.0 or GPHY 102/3.0, or permission of the Department.

GPHY 254/3.0  The Caribbean in a Globalizing World  3L
The past, present and future role of the Caribbean in the world economy, with an emphasis on the colonial legacy, debt and dependency, the effects of neoliberal reform and the changing geographies, and patterns of uneven development created by increasingly transnational flows of capital, people and culture.
PREREQUISITE  GPHY 101/3.0 or GPHY 102/3.0, or level 2 in a DEVS Plan, or permission of the Department.

GPHY 257/3.0  The Geography of Middle America  3L
The lands and peoples of Mexico, Central America, and the West Indies, emphasizing the historical factors that shape contemporary life in the region.
NOTE  Course audio-visual supplies: $10.
PREREQUISITE  GPHY 101/3.0 or GPHY 102/3.0, or level 2 in a DEVS plan, or permission of the Department.

GPHY 258/3.0  The Geography of South America  3L
The lands and peoples of South America, emphasizing how the colonial experience continues to affect contemporary life in the region.
NOTE  Course audio-visual supplies: $10.
PREREQUISITE  GPHY 101/3.0 or GPHY 102/3.0, or level 2 in a DEVS plan, or permission of the Department.

GPHY 259/3.0  The Geography of Europe  3L
The ecological, cultural, and historical factors that contribute to the shaping of modern Europe.
NOTE  Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE  GPHY 101/3.0 or GPHY 102/3.0, or permission of the Department.

GPHY 303/3.0  Physical Limnology  3L
Focusing on the Great Lakes, the physical processes of lakes and the landforms that result.
NOTE  Field trip: estimated cost $20.
PREREQUISITE  GPHY 208/3.0 or GPHY 209/3.0, or permission of the Department.

GPHY 304/3.0  Arctic and Periglacial Environments  3L
Advanced study of the physical geography of northern regions, emphasizing the Canadian Arctic.
PREREQUISITE  GPHY 102/3.0 or permission of the Department.

GPHY 306/3.0  Natural Environmental Change  3L;1P
An overview of the causes and record of global and regional environmental change during the last 100,000 years. Topics include glaciation, ocean-atmosphere interactions, sea level change, climatic variability, vegetation dynamics and discerning between the impact of human activities and that of natural environmental forcing mechanisms.
PREREQUISITE  GPHY 207/3.0 or GPHY 208/3.0 or GPHY 209/3.0, or permission of the Department.
GPHY 307/3.0  Field Studies in Physical Geography
Two weeks of field work plus written assignments in an aspect of physical geography, to be undertaken when a formal field course is offered.
NOTE   Field trips: estimated cost $400, depending on the location.
PREREQUISITES   (GPHY 208/3.0 and GPHY 209/3.0) or permission of the Department.

GPHY 312/3.0  Watershed Hydrology  3L;2P;1T
The course examines the processes that govern the flow and dissolved load in surface waters. Assignments focus on hydrological and hydrochemical data analysis and problem solving. Field projects emphasize hydrological monitoring techniques and methods used to collect and analyze the chemical composition of water samples.
NOTE   Field trips: estimated cost $50.
PREREQUISITE   GPHY 208/3.0 or 6.0 units in CHEM, or permission of the Department.
EQUIVALENCY   GPHY 308/3.0.

GPHY 314/3.0  Climate Change  2L;1T
The study of historical and current climate change, projected future climates emphasizing the effects of global warming, impacts of climate change, and the role of humans as agents of climatic system change.
PREREQUISITE   Level 3 or permission of the Department.

GPHY 315/3.0  Environmental Measurements: Data Collection and Management  2L;3P
Methods of measurement and management of environmental data including energy and radiation fluxes, temperature, humidity, wind precipitation, and soil moisture. Practical work involves the design and implementation of a field experiment.
PREREQUISITE   6.0 units at the 200 level or above in GPHY_Physical, or permission of the Department.

GPHY 317/3.0  Soil, Environment and Society  3L;3P
Soils are a critical resource required by societies. Using a strong methodological approach, this course will examine the important biological, chemical, and physical properties of soils. The course will also explore critical soil-related issues facing society, including salinization, degradation from agriculture, climate change, and erosion.
PREREQUISITE   GPHY 208/3.0 or GPHY 209/3.0, or permission of the Department.

GPHY 318/3.0  Advanced Biogeography  3L
An examination of the distributions of plants and animals on global, regional and local scales, their causes and significance.
NOTE   Field trip: estimated cost $25.
PREREQUISITES   Level 3 and (GPHY 207/3.0 or [BIOL 201/3.0 and BIOL 202/3.0]), or permission of the Department.

GPHY 325/3.0  Maps and Society  3L/S
A critical study of cartographic representation since prehistoric times, emphasizing the social and political role of maps in the modern period.
PREREQUISITE   GPHY 229/3.0 or GPHY 249/3.0, or permission of the Department.

GPHY 327/3.0  The Geographical Imagination  3L/S
Critical approaches to the role of the geographic, cultural and historical imagination in shaping landscapes, environments and society.
PREREQUISITE   GPHY 229/3.0, or 3.0 units in DEVS at the 200 level or above, or permission of the Department.
EQUIVALENCY   GPHY 323/3.0.

GPHY 332/3.0  Cities, Regions and Planning in Capitalist Societies  3L/S
Contemporary urban and regional development from the perspective of marxist political economy. Emphasis on the geography of industrial and regional restructuring, more flexible forms of manufacturing and service provision, and the economic and social restructuring of cities.
PREREQUISITES   6.0 units from GPHY 227/3.0; GPHY 228/3.0; GPHY 229/3.0;DEVS 230/3.0.
GPHY 336/3.0    Geography, the Environment and Human Health    3L
Geographical approaches to the relationship between human health and environment. Individual and population health outcomes of physical and social environmental influences and the development of policy responses.
PREREQUISITE   Level 3 and (GPHY 240/3.0 or GPHY 247/3.0 or KNPE 251/3.0 or PHED 251/3.0), or permission of the Department.

GPHY 337/3.0    Regional Development Theory and Policy    3L/S
The elements of the regional development process and regional policies. Principal theories and methods of regional analysis. Assessment of strategies of regional development and the use of policy instruments in regional development programs in North America and western Europe.
PREREQUISITES   GPHY 228/3.0 and (GPHY 227/3.0 or GPHY 247/3.0 or 3.0 units in DEVS at the 200 level or above), or permission of the Department.

GPHY 338/3.0    Urban Political Geography    3L/S
The forces involved in shaping the political environment and spatial structure of urban areas. Emphasis on the significance of decisions concerning public goods in the distribution of income and equity within the city.
PREREQUISITES   6.0 units from GPHY 227/3.0; GPHY 228/3.0; GPHY 229/3.0, or permission of the Department.

GPHY 339/3.0    Medical Geography    3L/S
Current issues in disease ecology and health care delivery systems. Emphasis on patterns of incidence, cultural and environmental associations, spread and control of infectious diseases, comparisons of health care delivery systems, and accessibility to health services.
PREREQUISITES   Level 3 and (GPHY 240/3.0 or GPHY 247/3.0 or KNPE 251/3.0 or PHED 251/3.0), or permission of the Department.

GPHY 342/3.0    Remote Sensing II: Digital Image Processing    2L;2P
This course represents an extension of GPHY 242/3.0, with an in-depth examination of image processing techniques for information extraction. Topics include remote sensor technology, image enhancement, classification, change detection, radiometric and geometric correction and sources and applications of remote sensing data.
NOTE   Enrolment limited to 40 students.
PREREQUISITES   GPHY 242/3.0 and GPHY 247/3.0 or permission of the Department.

GPHY 344/3.0    Cartographic Design and Visualization    2L/S;2P
Provides analysis of map design, construction, interpretation, and geographical data visualization techniques. Topics explore different mapping concepts and techniques for designing and producing quantitative and qualitative thematic maps. Emphasis on the representation of spatial data using 2- and 3-dimensional visualization methods. Lectures complement hands-on computer laboratory exercises.
PREREQUISITE   Level 3 or permission of the Department.
EQUIVALENCY    GPHY 249/3.0.

GPHY 345/3.0    Spatial Analysis    2L;2P
An in-depth exploration of the spatial analysis techniques used in vector GIS. The analysis of geographic primitives of points, lines, areas and surfaces in the context of applications drawn from geography, biology, planning and related disciplines. Emphasis is placed on the use of current GIS software in a hands-on environment.
PREREQUISITES   GPHY 243/3.0 or GISC 201/3.0 and (3.0 units from GPHY 247/3.0; ECON 250/3.0; KNPE 251/3.0; PHED 251/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 261/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0), or permission of the Department.
EQUIVALENCY    GISC 301/3.0.
**GPHY 346/3.0**  
**Environmental Modeling**  
Study of the techniques of Geographic Information Systems and their applications in solving physical and environmental problems. Topics include data representation and models, spatial interpolation, raster-based analysis and modeling, surface models and terrain analysis, data visualization, temporal analysis, error and accuracy, and other algorithms and analytical procedures.  
**PREREQUISITES**  
GPHY 243/3.0 or GISC 201/3.0 and (3.0 units from GPHY 247/3.0; ECON 250/3.0; KNPE 251/3.0; PHED 251/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 261/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0), or permission of the Department.  
**EQUIVALENCY**  
GISC 302/3.0.

**GPHY 347/3.0**  
**Multivariate and Spatial Statistics**  
This course offers an introduction to the theory and application of multivariate statistics to geographical data. Topics include regression and correlation analysis, ANOVA, spatial autocorrelation and other spatial statistics as well as geostatistical operations in GIS software.  
**PREREQUISITE**  
(3.0 units from GPHY 247/3.0; ECON 250/3.0; KNPE 251/3.0; PHED 251/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 261/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0).

**GPHY 348/3.0**  
**Application Design and Customization in GIS**  
An introduction to customization of GIS and database software with an emphasis on spatial analysis tool development for desktop and Web-based GIS. Students will learn concepts of user requirements analysis, software requirements preparation, interface and software design, and computer programming while they develop customized GIS applications.  
**PREREQUISITES**  
(GPHY 243/3.0 or GISC 201/3.0) or (GPHY 244/3.0 or GISC 202/3.0) or (3.0 units from GPHY 247/3.0; ECON 250/3.0; KNPE 251/3.0; PHED 251/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 261/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0), or permission of the Department.  
**EQUIVALENCY**  
GISC 303/3.0.

**GPHY 351/3.0**  
**Aboriginal Geographies of Canada**  
An overview of selected elements of the geographies of Aboriginal peoples in Canada with a focus on the relationship between Aboriginal peoples and their environments, urbanization and culture change, and colonialism.  
**PREREQUISITES**  
Level 3 and (6.0 units from GPHY 210/3.0; GPHY 227/3.0; GPHY 228/3.0; GPHY 229/3.0) or (3.0 units at the 200 level or above in DEVS or GNDS), or permission of the Department.

**GPHY 352/3.0**  
**Gender and the City**  
Gender in relationship to the spatial organization of contemporary Western cities. Emphasis on the diversity of gendered experiences of the city, gender and urban form, housing, social movements, the geography of work, and gender symbols in the urban landscape.  
**PREREQUISITES**  
(6.0 units from GPHY 227/3.0; GPHY 228/3.0; GPHY 229/3.0) or (3.0 units at the 200 level or above in GNDS), or permission of the Department.

**GPHY 359/3.0**  
**Cities and Development in Modern Europe**  
The contemporary relationships between city growth or decline and the dynamics of production systems in modern Europe. Case studies of city-centered regional growth and city-centered regional decline.  
**NOTE**  
Also offered at the Bader International Study Centre, Herstmonceux.  
**PREREQUISITE**  
GPHY 227/3.0 or GPHY 228/3.0 or GPHY 229/3.0, or permission of the Department.

**GPHY 362/3.0**  
**Human Migration**  
The movement of people across the surface of the earth from early times to the present, focussing on contemporary issues of immigration, refugees, human rights, social integration and barriers to integration including discussions of racism, citizenship, multiculturalism, and community infrastructure.  
**PREREQUISITE**  
GPHY 227/3.0 or GPHY 228/3.0 or GPHY 229/3.0, or permission of the Department.  
**EQUIVALENCY**  
GPHY 363/3.0.
GPHY 365/3.0  Geography, Development, and Environment in the Third World  3L/S
The geographical implications of the incorporation of the Third World into the global economy. Emphasis will be upon issues relating to both the physical and human environments in reference to development, ecological alteration, cultural change, and spatial readjustment.
PREREQUISITES  Level 3 or above and (6.0 units from GPHY 227/3.0; GPHY 228/3.0; GPHY 229/3.0) or (3.0 units at the 200 level or above in DEVIS or GNDS) or permission of the Department.

GPHY 368/3.0  Environments and Society  3L/S
A critical evaluation of the changing relationships between nature and society.
PREREQUISITES  (6.0 units from GPHY 227/3.0; GPHY 228/3.0; GPHY 229/3.0) or (3.0 units at the 200 level or above in DEVIS).

GPHY 370/3.0  Special Topics in Human Geography  3S/L
Course offered by visiting faculty on Geography topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each academic year.
PREREQUISITE  Level 3 in a GPHY plan, or permission of the Department.

GPHY 371/3.0  Special Topics in Earth System Science  3S/L
Course offered by visiting faculty on Geography topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each academic year.
PREREQUISITE  Level 3 in a GPHY plan, or permission of the Department.

GPHY 372/3.0  Special Topics in Geographic Information Science  3L/P
This course provides intensive coverage of a topic in Geographic Information Science and will be offered periodically by visiting professors. Consult the Departmental homepage for details on specific course offerings each year.
PREREQUISITE  Level 3 in a GPHY or GISC Plan, or permission of the Department.
EQUIVALENCY  GISC 390/3.0.

GPHY 401/3.0  Honours Seminar in Human Geography I  3S/L
Seminars offered by regular and visiting faculty on Geography topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each academic year.
PREREQUISITE  Level 4 and (a GPA of 2.60 in 24.0 units in GPHY and registration in a GPHY Major or Medial [Arts] Plan), or by petition to the Departmental Undergraduate Committee.
EXCLUSIONS  No more than 3.0 units from GPHY 401/3.0; GPHY 402/3.0; GPHY 403/3.0.

GPHY 402/3.0  Honours Seminar in Human Geography II  3S/L
Seminars offered by regular and visiting faculty on Geography topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each academic year.
PREREQUISITE  Level 4 and (a GPA of 2.60 in 24.0 units in GPHY and registration in a GPHY Major or Medial [Arts] Plan), or by petition to the Departmental Undergraduate Committee.
EXCLUSIONS  No more than 3.0 units from GPHY 401/3.0; GPHY 402/3.0; GPHY 403/3.0.

GPHY 403/3.0  Honours Seminar in Human Geography III  3S/L
Seminars offered by regular and visiting faculty on Geography topics related to their research interests. Consult the departmental homepage for further details of specific course offerings each academic year.
PREREQUISITE  Level 4 and (a GPA of 2.60 in 24.0 units in GPHY and registration in a GPHY Major or Medial [Arts] Plan), or by petition to the Departmental Undergraduate Committee.
EXCLUSIONS  No more than 3.0 units from GPHY 401/3.0; GPHY 402/3.0; GPHY 403/3.0.
GPHY 411/3.0  Biogeochemical Processes  3L/T
Understanding biogeochemical cycles is key to understanding earth systems science. This course examines the processes behind the transfer and transformation of biogeochemical elements (e.g. carbon, nitrogen, phosphorus, sulfur, contaminants) between various Earth systems, and explores the methods used to quantify biogeochemical cycles.
PREREQUISITE  Level 4 and (a GPA of 1.90 in 12.0 units from CHEM or MATH or PHYS at the 100-level or above) and (a GPA of 1.90 in 30.0 units from GPHY) and (registration in a GPHY Major [Science] or EGPY Specialization Plan), or by petition to the Departmental Undergraduate Committee.
EQUIVALENCY  GPHY 311/3.0.

GPHY 413/3.0  Water, Energy and Carbon Cycling in the Biosphere  3L/S;2P bi-weekly
The study of the interaction of the atmosphere with the surface in terms of radiative, heat, water, and trace gas fluxes.
PREREQUISITE  Level 4 and (a GPA of 1.90 in 12.0 units from CHEM or MATH or PHYS at the 100-level or above) and (a GPA of 1.90 in 30.0 units from GPHY) and (registration in a GPHY Major [Science] or EGPY Specialization Plan), or by petition to the Departmental Undergraduate Committee.
EQUIVALENCY  GPHY 313/3.0.

GPHY 417/3.0  Land-Use Change in the Earth System  3L
Changes in land use and land cover represent significant changes to the dynamics of the earth system. This course will explore the methods used to quantify rates of land-use and land-cover change, and also the biophysical consequences of these changes. The goal of the course is to develop a framework for evaluating the biophysical and societal trade-offs associated with land-use decisions.
PREREQUISITE  Level 4 and (a GPA of 1.90 in 12.0 units from CHEM or MATH or PHYS at the 100-level or above) and (a GPA of 1.90 in 30.0 units from GPHY) and (registration in a GPHY Major [Science] or EGPY Specialization Plan), or by petition to the Departmental Undergraduate Committee.

GPHY 418/3.0  Landscape Ecology  2L;2P
Study of the relationship between spatial pattern and ecological processes. Topics include spatial arrangement of ecosystems and its influence on the flow of energy, materials and biota; agents of pattern and change; methods and techniques for characterizing landscapes and detecting change; applications in resource conservation and management.
NOTE  Computer Lab fees: estimated cost $50.
PREREQUISITE  Level 4 and (a GPA of 1.90 in 12.0 units from CHEM or MATH or PHYS at the 100-level or above) and (a GPA of 1.90 in 30.0 units from GPHY or BIOL or ENSC) and (registration in a GPHY or BIOL or ENSC Major [Science] or EGPY or EBIO Specialization Plan), or by petition to the Departmental Undergraduate Committee.
EQUIVALENCY  GPHY 310/3.0.

GPHY 501/3.0  Special Studies in Geography
Open to Level 4 students who have an average of A- or greater in those courses which form their concentration for admission to honours in Geography. Special consideration will be given to requests from students with an average of B or more in those courses which form their concentration for admission to honours. The student will arrange a program of study with a specific member of the Department.
PREREQUISITE  Level 4 and a (GPA of 3.50 in 24.0 units in GPHY) and (registration in a GPHY Major or Medial Plan or EGPY Specialization Plan) and (consent of a supervising member of the Department) or by permission to the Departmental Undergraduate Committee.
EXCLUSION  No more than 1 course from GPHY 501/3.0; GPHY 502/3.0; GPHY 503/6.0.
GPHY 502/3.0  Research and Thesis in Geography I
Research project in Geography supervised by a member of the faculty. Research involving the amount of work associated with other senior 3.0 unit courses will be done as GPHY 502/3.0.
NOTE    Admission is subject to the availability of supervisors.
PREREQUISITE    Level 4 and a (GPA of 3.50 in 24.0 units in GPHY) and (registration in a GPHY Major or Medial Plan or EGPY Specialization Plan) and (consent of a supervising member of the Department) or by permission to the Departmental Undergraduate Committee.
EXCLUSION    No more than 1 course from GISC 401/3.0; GPHY 501/3.0; GPHY 502/3.0; GPHY 503/6.0.

GPHY 503/6.0  Research and Thesis in Geography II
Research project in Geography supervised by a member of the faculty. Research involving the amount of work associated with larger research projects with work comparable to a 6.0 unit course (including work completed during summer) may be done as GPHY 503/6.0.
NOTE    Admission is subject to the availability of supervisors.
PREREQUISITE    Level 4 and a (GPA of 3.50 in 24.0 units in GPHY) and (registration in a GPHY Major or Medial Plan or EGPY Specialization Plan) and (consent of a supervising member of the Department) or by permission to the Departmental Undergraduate Committee.
EXCLUSION    No more than 1 course from GISC 401/3.0; GPHY 501/3.0; GPHY 502/3.0; GPHY 503/6.0.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREK 112/6.0</td>
<td>Introductory Greek</td>
<td>3L/S</td>
<td>Fundamentals of grammar, syntax and etymology, for students with no or little knowledge of Greek; provides sufficient background to read Plato, Euripides as well as the New Testament. Note: Normally not open to students with 4U Greek.</td>
</tr>
<tr>
<td>GREK 208/6.0</td>
<td>Intermediate Greek</td>
<td>3L/S</td>
<td>Review of grammar followed by a study of a work of Euripides. In addition to developing facility in translation, study of literary content and background of authors. Note: A student with 4U Greek may alternatively use this as a prerequisite and should contact the Department for permission to register in the course.</td>
</tr>
<tr>
<td>GREK 310/6.0</td>
<td>Epic Poetry and Oratory</td>
<td>3L/S</td>
<td>Selected passages of the Iliad in Greek, other Greek epics in translation; selected speeches by Isocrates, Lysias, Demosthenes. PREREQUISITE GREK 208/6.0.</td>
</tr>
<tr>
<td>GREK 311/6.0</td>
<td>Historians and Theatre</td>
<td>3L/S</td>
<td>Selected passages from Herodotus and Thucydides; selected work from tragedy or comedy. PREREQUISITE GREK 208/6.0.</td>
</tr>
<tr>
<td>GREK 410/6.0</td>
<td>Greek Language and Literature</td>
<td></td>
<td>Detailed study of author(s) or genre. See Department for information. PREREQUISITE GREK 208/6.0.</td>
</tr>
<tr>
<td>GREK 411/6.0</td>
<td>Greek Language and Literature</td>
<td></td>
<td>Detailed study of author(s) or genre. See Department for information. PREREQUISITE GREK 208/6.0.</td>
</tr>
<tr>
<td>GREK 430/6.0</td>
<td>Research Course</td>
<td></td>
<td>Detailed study of certain aspects of Greek Literature and history through directed readings and essay assignments. PREREQUISITE GREK 208/6.0.</td>
</tr>
<tr>
<td>GREK 591/0.0</td>
<td>General Examination</td>
<td></td>
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</tr>
</tbody>
</table>
GRMN P61/3.0  
**Introduction to Reading German Level I**

This course introduces the student to reading strategies, grammar, resources and basic vocabulary and leads to a second-year reading knowledge of German in 12 weeks.

**NOTE**  Also offered as a distance course. Consult Continuing and Distance Studies.

**NOTE**  Students work independently and must have access to a computer with CD-ROM capability.

**NOTE**  CD ROM approximate cost $60.

**NOTE**  The workload is comparable to that of a standard 3.0 unit language acquisition.

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GRMN 101/3.0  
**Beginner’s German I**  
3L;1T

This course is for students with no previous knowledge of German. The course concentrates on the basic language skills (listening, reading, writing and speaking) and introduces elements of German culture as recorded in its customs, history and literature.

**NOTE**  Also offered at the Bader International Study Centre, Herstmonceux.

GRMN 102/3.0  
**Beginner’s German II**  
3L;1T

This course is for students with a limited background in German. The course concentrates on the basic language skills (listening, reading, writing and speaking) and introduces elements of German culture as recorded in its customs, history and literature.

**NOTE**  Also offered at the Bader International Study Centre, Herstmonceux.

GRMN 105/3.0  
**Germany: Cultural History and National Identity I**  
3L

An interdisciplinary introduction to concepts of national identity through a survey of German culture and history from antiquity to the end of the First World War. The course considers discourses of national identity alongside the intersections of history, sociology, politics, religion, and culture (literature, art, music). Attention will be paid to the pre-history of nationhood among Germanic peoples in a European context.

GRMN 106/3.0  
**Germany: Cultural History and National Identity II**  
3L

An interdisciplinary introduction to concepts of national identity through a survey of German culture and history from the end of the First World War to the present. The course considers discourses of national identity alongside the intersections of history, sociology, politics, religion, and culture (literature, film, art, music, philosophy). Attention will be paid to the cultural roots of Nazism and Germany’s role in the European Union.

GRMN 201/3.0  
**Intermediate German I**  
3L;1T

A continuation of GRMN 102/3.0 aimed at expanding basic language skills (listening, reading, writing and speaking). Students will review and deepen their knowledge of grammatical structures through exposure to a variety of German-language media and culture.

**PREREQUISITE**  A grade of C in GRMN 102/3.0 or permission of the Department of Languages, Literatures and Cultures.

GRMN 202/3.0  
**Intermediate German II**  
3L;1T

A systematic review of grammatical structures with the aim of enhancing students’ linguistic competence with particular emphasis on written communication.

**PREREQUISITE**  A grade of C in GRMN 102/3.0 or permission of the Department of Languages, Literatures and Cultures.

GRMN 203/3.0  
**German Conversation and Culture**  
3L;1T

An intermediate conversation course designed to advance skills in oral communication and cultural competence, supported by grammar instruction and written assignments. Students will engage with different media sources, including German-language television, film, internet, print media and music.

**PREREQUISITE**  A grade of C in GRMN 102/3.0 or permission of the Department of Languages, Literatures and Cultures.
GRMN 206/3.0  Business German: German in the Workplace I  3L;1T
An introduction to the contemporary terminology of German in the workplace, designed for students at the intermediate level. Although all four language skills will be developed, there is a strong emphasis on oral communication. The course also aims at developing cross-cultural awareness.
RECOMMENDATION  It is strongly recommended that students take GRMN 201/3.0 and GRMN 202/3.0 concurrently.
PREREQUISITES  GRMN 101/3.0 and GRMN 102/3.0, or permission of the Department of Languages, Literatures and Cultures.

GRMN 207/3.0  Business German: German in the Workplace II  3L;1T
An introduction to the contemporary terminology of German in the workplace, designed for students at the intermediate level. Although all four language skills will be developed, there is a strong emphasis on oral communication. The course also aims at developing cross-cultural awareness.
RECOMMENDATION  It is strongly recommended that students take GRMN 201/3.0 and GRMN 202/3.0 concurrently.
PREREQUISITES  GRMN 101/3.0 and GRMN 102/3.0, or permission of the Department of Languages, Literatures and Cultures.

GRMN 221/3.0  German Film I: Expressionism to Weimar (In English)  2L;2P
Introduction to German film from early Expressionism to the Weimar Republic and National Socialism. Films will be examined from the perspective of historical, political and cultural context as well as with respect to the development of film technique vis-à-vis other artistic media such as literature and theatre.

GRMN 222/3.0  German Film II: New German Cinema to the Post-Unification Period (In English)  2L;2P
A survey of West German cinema from the 1960s to the present. A selection of internationally recognized films with English subtitles will be shown in class and examined in their historical, political, and cultural contexts.

GRMN 251/3.0  German Literature and Culture in a Global Context I  3L
An introduction to German literature and ideas in the Enlightenment, Romanticism, and Realism. Emphasis will be placed on the impact of German-language writers on the English-speaking world and in a global context. The course includes writers such as Lessing, Goethe, Schiller, Kleist, Keller, Büchner, Heine, and Fontane.
PREREQUISITE  Level 2 or above.
EQUIVALENCY  GRMN 151/3.0.

GRMN 252/3.0  German Literature and Culture in a Global Context II  3L
An introduction to German literature and ideas from the turn of the twentieth century to the present. Emphasis will be placed on the impact of German-language writers on the English-speaking world and in a global context. The course includes writers such as Nietzsche, Freud, Mann, Kafka, Brecht, Grass, Bachmann, Wolf, and Özdamer.
PREREQUISITE  Level 2 or above.
EQUIVALENCY  GRMN 152/3.0.

GRMN 262/3.0  Reading German Level II
This course teaches highly specialized language skills through a computer program in the student’s individual area of interest, discipline or research field, i.e., humanities, business and economic, chemistry and music, and leads to a reading knowledge of German comparable to fourth-year language courses.
NOTE  Students work independently and must have access to a computer with CD-ROM capability.
NOTE  The workload is comparable to that of a standard 3.0 unit course.
PREREQUISITE  GRMN P61/3.0
GRMN 306/3.0  Business German: German in the Workplace III  3L;1T
A continuation of GRMN 206/3.0 and GRMN 207/3.0, designed for students at the intermediate-advanced level. The course aims at further developing communicative competence in the fields of business, commerce and industry, and German in the workplace, and prepares students for the internationally recognized exam Zertifikat Deutsch für den Beruf. Students can write the exam on campus.
PREREQUISITES  (GRMN 201/3.0 and GRMN 202/3.0) and (GRMN 206/3.0 and GRMN 207/3.0), or permission of the Department of Languages, Literatures and Cultures.

GRMN 307/3.0  Business German: German in the Workplace IV  3L;1T
A continuation of GRMN 206/3.0 and GRMN 207/3.0, designed for students at the intermediate-advanced level. The course aims at further developing communicative competence in the fields of business, commerce and industry, and German in the workplace, and prepares students for the internationally recognized exam Zertifikat Deutsch für den Beruf. Students can write the exam on campus.
PREREQUISITES  (GRMN 201/3.0 and GRMN 202/3.0) and (GRMN 206/3.0 and GRMN 207/3.0), or permission of the Department of Languages, Literatures and Cultures.

GRMN 308/3.0  Survey of German Cultural History I  3L;1T
Intensive development of language skills, including exercises in translation and free composition as well as oral practice, in the course of a general introduction to the cultural history of the German-speaking countries.
PREREQUISITE  A grade of C in GRMN 202/3.0 or permission of the Department of Languages, Literatures and Cultures.

GRMN 309/3.0  Survey of German Cultural History II  3L;1T
A continuation of GRMN 308/3.0 with a focus on the 20th century.
PREREQUISITE  GRMN 202/3.0

GRMN 311/3.0  German Language and Culture through 18th- and 19th-Century Literature  3L;1T
An introduction to reading, discussing and writing about German literary texts in German. Major periods, authors, and texts of the 18th and 19th centuries will be examined in their cultural and historical contexts. Students will be exposed to different genres: excerpts from novels and dramas, as well as short stories, poems and film adaptations.
PREREQUISITE  A grade of C in GRMN 202/3.0 or permission of the Department of Languages, Literatures and Cultures.

GRMN 312/3.0  German Language and Culture through 20th-Century Literature  3L;1T
An introduction to reading, discussing and writing about German literary texts in German. Major periods, authors, and texts of the 20th century will be examined in their cultural and historical contexts. Students will be exposed to different genres: excerpts from novels and dramas as well as short stories, poems and film adaptations.
PREREQUISITE  A grade of C in GRMN 202/3.0 or permission of the Department of Languages, Literatures and Cultures.
EQUIVALENCY  GRMN 310/3.0.

GRMN 315/3.0  Work and Study in Germany
Students who have participated in the Werkstudentenprogramm (or an equivalent program or internship) may obtain academic credit on their return by presenting, by the end of the fall term of the same year, a 2,500 word essay about their experiences and submitting to a 90 minute written and a 20 minute oral exam, all in the German language.
NOTE  Participation in the Werkstudentenprogramm is required.
PREREQUISITE  Permission of the Department of Languages, Literatures and Cultures.

GRMN 409/3.0  Advanced Language Skills I  3L/T
Advanced work on various aspects of the German language, involving intensive practice in writing and conversational skills; translation of literary and non-literary materials from and into German; and exercise in stylistic and structural analysis of literary and non-literary German in a variety of registers and contexts.
PREREQUISITE  A grade of C in GRMN 309/3.0, or permission of the Department of Languages, Literatures and Cultures.
Advanced Language Skills II

Advanced work on various aspects of the German language, involving intensive practice in writing and conversational skills; translation of literary and non-literary materials from and into German; and exercise in stylistic and structural analysis of literary and non-literary German in a variety of registers and contexts.

PREREQUISITE  A grade of C in GRMN 309/3.0, or permission of the Department of Languages, Literatures and Cultures.

Goethe and his Age

An examination of the classical age of German literature concentrating on drama. The texts to be discussed will include the first part of Goethe’s Faust but also works by several other authors. Readings and assignments are in German.

PREREQUISITE  6.0 units from GRMN 308/3.0; GRMN 309/3.0; GRMN 310/3.0; GRMN 311/3.0; GRMN 312/3.0

Romanticism and Realism

An examination of the currents of German literature in the years between the death of Goethe in 1832 and the rise of modernism in the 1890s. Readings will include fiction by Theodor Fontane, with a particular focus on his portrayal of Bismarck’s Berlin. Readings and assignments are in German.

PREREQUISITE  6.0 units from GRMN 308/3.0; GRMN 309/3.0; GRMN 310/3.0; GRMN 311/3.0; GRMN 312/3.0

German Modernity: From Vienna to Weimar

An analysis of the culture of modernity as manifested in German texts from the decadent age of Vienna at the turn of the century to the anxiety-ridden Weimar Republic. A variety of cultural texts, including films, will introduce important authors and movements. Readings and assignments are in German.

PREREQUISITE  6.0 units from GRMN 308/3.0; GRMN 309/3.0; GRMN 310/3.0; GRMN 311/3.0; GRMN 312/3.0

Masterpieces of Twentieth-Century German Narrative

A study of selected masterpieces of twentieth-century German narrative, typically including texts by such authors as Thomas Mann, Franz Kafka, Hermann Hesse, Heinrich Böll and Günter Grass. Readings and assignments are in German.

PREREQUISITE  6.0 units from GRMN 308/3.0; GRMN 309/3.0; GRMN 310/3.0; GRMN 311/3.0; GRMN 312/3.0

Contemporary German Women’s Writing, East and West

This course has the same course content as GRMN 353, but with the readings and assignments in German. Students in the two courses will attend the same classes, but those enrolled in GRMN 453/3.0 will in addition attend a weekly one-hour tutorial to study linguistic aspects of the German texts.

PREREQUISITE  6.0 units from GRMN 308/3.0; GRMN 309/3.0; GRMN 310/3.0; GRMN 311/3.0; GRMN 312/3.0

History of the German Language I

A survey of the historical development of the German language, including Old High German, Middle High German, and New High German.

PREREQUISITE  Permission of the Department of Languages, Literatures and Cultures.

History of the German Language II

A survey of the historical development of the German language, including Old High German, Middle High German, and New High German.

PREREQUISITE  Permission of the Department of Languages, Literatures and Cultures.
GRMN 510/6.0  Die deutsche Novelle
A reading course involving an intensive independent study of works representative of the genre “Novelle” in the 19th and 20th centuries. Students are expected to familiarize themselves with the relevant critical literature; a reading list and a select bibliography are available.
PREREQUISITE   Permission of the Department of Languages, Literatures and Cultures.

GRMN 511/3.0  Special Topics I
Specialized study, as circumstances permit, of a particular author, genre, theme, movement, literary form, or some combination of these elements.
PREREQUISITE   Permission of the Department of Languages, Literatures and Cultures.

GRMN 512/3.0  Special Topics II
Specialized study, as circumstances permit, of a particular author, genre, theme, movement, literary form, or some combination of these elements.
PREREQUISITE   Permission of the Department of Languages, Literatures and Cultures.

GRMN 531/3.0  Directed Special Studies I
Reading courses enabling individual study of a particular author or problem in greater depth, the specific topic to be selected in consultation with the Head of Department. An essay of appropriate length may, after consultation, be submitted in either course in lieu of a final examination.
PREREQUISITE   Permission of the Department of Languages, Literatures and Cultures.

GRMN 532/3.0  Directed Special Studies II
Reading courses enabling individual study of a particular author or problem in greater depth, the specific topic to be selected in consultation with the Head of Department. An essay of appropriate length may, after consultation, be submitted in either course in lieu of a final examination.
PREREQUISITE   Permission of the Department of Languages, Literatures and Cultures.

GRMN 540/6.0  Directed Studies I
Directed reading course as a capstone project to a degree concentration in German. The student can expect to develop skills in project development, independent research, and essay writing. The purpose is to enable a student to gain a greater depth in a particular aspect within the field of German Studies.
PREREQUISITE   Permission of the Department of Languages, Literatures and Cultures.

GRMN 541/6.0  Directed Studies II
Directed reading course as a capstone project to a degree concentration in German. The student can expect to develop skills in project development, independent research, and essay writing. The purpose is to enable a student to gain a greater depth in a particular aspect within the field of German Studies.
PREREQUISITE   Permission of the Department of Languages, Literatures and Cultures
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEBR 135/3.0</td>
<td>Hebrew Literature and Cultural Contexts in Translation</td>
<td>3L</td>
<td>An introduction in English translation to the masterpieces of Hebrew literature from the Bible to the revival of modern Hebrew and Israeli culture; classics of Jewish religious thought as well as secular Hebrew culture, prose and poetry, writings by men and women; a study of the ways in which surrounding societies influenced Hebrew culture and the aspects of continuity in Hebrew cultural development.</td>
<td>No more than 1 course from HEBR 135/3.0; JWST 135/6.0</td>
</tr>
<tr>
<td>HEBR 190/6.0</td>
<td>Introduction to Modern Hebrew</td>
<td>3L</td>
<td>For students with no (or a minimal) background in Hebrew. Introduces elements of grammar and vocabulary of modern Hebrew.</td>
<td>Permission of the instructor.</td>
</tr>
<tr>
<td>HEBR 191/6.0</td>
<td>Introduction to Biblical Hebrew</td>
<td>3L</td>
<td>Provides a basic understanding of the Hebrew language as vehicle of meaning for the message of the Hebrew Bible.</td>
<td></td>
</tr>
<tr>
<td>HEBR 292/3.0</td>
<td>Intermediate Biblical Hebrew</td>
<td>3S</td>
<td>Readings in biblical Hebrew prose and poetry.</td>
<td>HEBR 191/6.0 or permission of the instructor.</td>
</tr>
<tr>
<td>HEBR 294/3.0</td>
<td>Intermediate Modern Hebrew I</td>
<td>3S</td>
<td>An extensive grammar review with practice in speaking, writing, and translation, based on the reading of texts by modern Hebrew writers. HEBR 295/3.0, when offered, is a direct continuation of HEBR 294/3.0.</td>
<td>HEBR 190/6.0, or permission of the instructor.</td>
</tr>
<tr>
<td>HEBR 295/3.0</td>
<td>Intermediate Modern Hebrew II</td>
<td>3S</td>
<td>An extensive grammar review with practice in speaking, writing, and translation, based on the reading of texts by modern Hebrew writers. HEBR 295/3.0, when offered, is a direct continuation of HEBR 294/3.0.</td>
<td>HEBR 294/3.0, or permission of the instructor.</td>
</tr>
<tr>
<td>HEBR 301/3.0</td>
<td>Special Topics in Hebrew</td>
<td>3S</td>
<td>Specialized study, as circumstances permit, of a particular author, genre, theme, movement, literary form or some combination of these elements. Course details to be announced on website.</td>
<td>HEBR 294/3.0 or HEBR 291/6.0, or permission of the instructor.</td>
</tr>
<tr>
<td>HEBR 390/3.0</td>
<td>Conversational Hebrew</td>
<td>3S</td>
<td>Everyday modern Hebrew communication and comprehension. Participation in conversations; student presentations.</td>
<td></td>
</tr>
<tr>
<td>HEBR 391/3.0</td>
<td>Reading Rabbinic Texts</td>
<td>3L</td>
<td>A study of the major genres of rabbinic literature and an introduction to the structure and style of classical literary Hebrew.</td>
<td>HEBR 294/30 or HEBR 291/6.0, or permission of the instructor.</td>
</tr>
<tr>
<td>HEBR 393/3.0</td>
<td>Reading Modern Hebrew Literature</td>
<td>3S</td>
<td>Selections from current Israeli media including music, newspapers and television, as well as from modern Hebrew prose and poetry (e.g., Ahad Haam, Bialik, Tchernichowski, Agnon, Amichai, Oz, Yehoshua). The selections are studied in Hebrew; written assignments may be submitted in English.</td>
<td></td>
</tr>
<tr>
<td>HEBR 502/3.0</td>
<td>Directed Reading in Hebrew</td>
<td>3L</td>
<td>Directed Hebrew reading of material not covered in other courses, appropriate to the student’s level.</td>
<td>Permission of the instructor or the Program Director.</td>
</tr>
</tbody>
</table>
HIST 121/6.0  The Intellectual Origins of the Contemporary West  3L/T
An introduction to European intellectual history from the ancient world to the present. Concentration is on the analysis of primary sources and ideas in their historical contexts. The course offers weekly introductory lectures followed by discussion of source material in small tutorial groups where the objective is maximum student participation.

HIST 122/6.0  The Making of the Modern World  3L/T
A thematic introduction to world history from prehistoric times to the present, with particular emphasis on the changing balance of power between regions of the globe and the contributions of the peoples of Africa, Asia, Oceania and the Americas to modernity.

HIST 124/6.0  Canada in the World  3L/T
An introduction to major themes and events in the history of Canada placed in a North American and world context. Topics include relations between natives and newcomers, comparative colonialism, the emergence of nation-states and new social and cultural identities. Assignments emphasize analysis of historical texts and development of research and writing skills.
EXCLUSION  No more than 6.0 units from HIST 124/6.0; HIST 278/3.0, HIST 279/3.0.

HIST 125/6.0  The Evolution of Modern Europe  3L/T
A survey of Western and Central Europe and Great Britain from about 1750 to 1950. The focus is on the revolutions which produced modern Europe, notably the political revolutions (1789 and 1848), industrialization, urbanization, population growth, secularization, the rise of new classes, and changes in ideologies and popular attitudes.
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.
NOTE  Also offered at the Bader International Study Centre, Herstmonceux.

HIST 200/3.0  India and the World  3L
This course examines the history of India as a series of contacts with the rest of the world. Topics include Roman trade in ancient India, the Portuguese, Turkish, and Mughal empires, Ghandi in South Africa, and South Asian diasporas in Europe and North America. Course materials include histories, travel accounts, court chronicles, medical treatises, literature, and film.
PREREQUISITE  Level 2 or above.

HIST 201/3.0  Europe, 1572-1815  3L
A survey of the social, cultural, economic, political and intellectual life of Europe from the French Wars of Religion to the Age of Napoleon. Topics will include religious warfare, the Scientific Revolution, state building, economic transformation, family life, popular culture, the French Revolution, and the Napoleonic Wars.
PREREQUISITE  Level 2 or above.

HIST 202/3.0  From Partition to Reunification: German History Since 1945  3L
A survey of German history in the post World War II period. The course begins with an overview of Germany in 1945 at the end of World War II and will proceed to examine the major developments that shaped German history until reunification in 1990.
PREREQUISITE  Level 2 or above.

HIST 203/3.0  The U.S. in the Depression and World War II  3L
These two great crises reshaped U.S. politics and society in the mid-20th century. Topics include America’s economic collapse; the transformative effect of the New Deal; the challenge of mobilizing for all-out war; the impact of war on families, workers, African Americans and others; and the emergence of the U.S. on the international stage.
PREREQUISITE  Level 2 or above.

HIST 204/3.0  The Myth and Reality of the American West  3L
For more than two centuries, no region has loomed larger in the American imagination - or in foreign views of the U.S. - than the West. This course will challenge the myths of the frontier and explore the reality of the region from the days of conquest and colonization through the late 20th century.
PREREQUISITE  Level 2 or above.
HIST 205/3.0  The Atlantic World  3L
This course explores the interconnected nature of the Atlantic World between 1492 and 1860, and breaks away from traditional emphases on the nation-state and other constructed boundaries. Topics will include migration, imperial rivalries, plantation economies, systems of labor, resistance, race, class, gender, religion and ideologies of revolution.
PREREQUISITE  Level 2 or above.

HIST 208/3.0  Introduction to Themes in Canadian History I  3L
An interdisciplinary course in which the Canadian nation state will be examined from a geographic, historical, political, cultural and economic perspective, with particular attention being paid to the First Nations and linguistic minorities.
PREREQUISITE  Level 2 or above.

HIST 209/3.0  Introduction to Themes in Canadian History II  3L
An interdisciplinary course in which the Canadian nation state will be examined from a geographic, historical, political, cultural and economic perspective, with particular attention being paid to ethnic and racial relations, national identity and cultural icons.
PREREQUISITE  Level 2 or above.

HIST 210/3.0  The History of Sexuality in Canada  3L
An overview of Canada’s sexual past. Introduces historiographical debates and theoretical approaches to the history of sexuality. Attentive to race, class, and gender, the course employs sexuality as a prism through which to view the operations of power in Canadian history.
PREREQUISITE  Level 2 or above.
EXCLUSION  No more than 3.0 units from HIST 210/3.0; HIST 241/3.0 (2009/10).
EXCLUSION  No more than 3.0 units from HIST 211/3.0; HIST 241/3.0 (2007/08 - 2008/09).

HIST 211/3.0  The Cold War  3L
This course will explore the origins of the struggle between the postwar superpowers, the United States and the Soviet Union; the changing nature of their rivalry, and the way other nations were drawn into the conflict. It considers the Cold War from Western, Soviet, and various global perspectives.
PREREQUISITE  Level 2 or above.
EXCLUSION  No more than 3.0 units from HIST 211/3.0; HIST 241/3.0 (2007/08 - 2008/09).

HIST 216/3.0  U.S. Civil War and Reconstruction  3L
The Civil War has been the defining moment in American history. This course examines the political, cultural and social origins of the conflict, experiences of the war itself for both soldiers and civilians, studies the unfinished revolution of Reconstruction, and considers the legacy of the Civil War and Reconstruction in the contemporary US.
PREREQUISITES  Level 2 or above.
EXCLUSION  No more than 1 course from HIST 216/3.0; HIST 304/6.0; HIST 371/6.0.

HIST 218/3.0  Byzantium  3L
An introduction to the fabled world of Byzantium. The course surveys key aspects of Byzantine political history, society and culture. It traces the transformation of the empire from its origins in third century Rome into the ‘other’ middle ages of the Eastern Mediterranean and the Balkans ending with the fall of Constantinople in 1453.
PREREQUISITE  Level 2 or above.

HIST 221/3.0  Jewish and World Civilizations (until 1492)  3L
A thematic-chronological history of Jews; political, social, religious and cultural interactions with the ancient near east, Hellenism, Rome, Christians, and Muslims; the biblical background; the rise of rabbinic Judaism and its opponents; communal life; gender; Diaspora cultures.
PREREQUISITE  Level 2 or above.
**HIST 222/3.0**  
**Jewish and World Civilizations (since 1492)**  
3L  
The resettlement of Jews in Europe; modernization of Jewish life and culture and resistance to it in Western and Eastern Europe, North America, Palestine, Middle East, and State of Israel; heresy, political emancipation, developments in antisemitism, enlightenment, secularization, Zionism, radicalism, modern religious movements.  
PREREQUISITE  Level 2 or above.

**HIST 224/3.0**  
**Religion in Canadian Francophone Communities**  
3L  
This course aims to introduce students to the socio-cultural and religious realities of French-language communities in Canada, from the 19th century to today. Ce cours introduit les étudiants aux réalités socio-culturelles et religieuses des communautés de langue française au Canada, du 19e siècle à nos jours.  
NOTE  This course can be taken in either French or English.  
PREREQUISITE  Level 2 or above.

**HIST 240/6.0**  
**Issues in History I**  
3L  
Lecture course on a selected historical issue. Subject changes from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.  
PREREQUISITE  Level 2 or above.

**HIST 241/3.0**  
**Issues in History II**  
3L  
Lecture course on a selected historical issue. Subject changes from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.  
PREREQUISITE  Level 2 or above.  
EXCLUSION  No more than 3.0 units from HIST 210/3.0; HIST 241/3.0 (2009/10).  
EXCLUSION  No more than 3.0 units from HIST 211/3.0; HIST 241/3.0 (2007/08 - 2008/09).  
EXCLUSION  HIST 251/3.0.

**HIST 242/3.0**  
**Issues in History III**  
3L  
Lecture course on a selected historical issue. Subject changes from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.  
PREREQUISITE  Level 2 or above.

**HIST 243/3.0**  
**The Crusades**  
3L  
A general introduction to the history of the Crusades and holy war in the medieval period. Western, Muslim and Byzantine perspectives will be considered.  
PREREQUISITE  Level 2 or above.  
EXCLUSION  No more than 1 course from HIST 243/3.0; HIST 343/6.0.

**HIST 244/3.0**  
**Selected Topics in History**  
3L  
Lecture course on a selected historical issue. Subject changes from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.

**HIST 245/3.0**  
**Medieval, Muscovite, and Imperial Russia**  
3L  
A survey of Russian history from the 9th century to the collapse of the old regime in 1917. Themes include cultural exchange and conquest, Russian orthodoxy and the secularization of the Russian state, traditions of rebellion and dissent, the customs and beliefs of Tsars, nobles, peasants and merchants, and the challenges of political and legal reform.  
PREREQUISITE  Level 2 or above.  
EXCLUSION  No more than 6.0 units from HIST 217/6.0; HIST 245/3.0; HIST 246/3.0.

**HIST 246/3.0**  
**The Soviet Experiment**  
3L  
An introduction to the history of the Soviet Union from its origins in the Revolution of 1917 to its collapse in 1991. This course examines and assesses the Bolshevik attempt to found a new social, economic and political order and to create a new man and woman in the process. Particular attention will be devoted to the policies and practices of the state as well as to the experiences of individual Soviet citizens.  
PREREQUISITE  Level 2 or above.  
EXCLUSION  No more than 6.0 units from HIST 217/6.0; HIST 245/3.0; HIST 246/3.0.
HIST 248/3.0  United States, Colonization to 1865  3L
A survey of United States history from the beginnings of European colonization until the end of the Civil War, emphasizing social and cultural changes.
PREREQUISITE  Level 2 or above.
EXCLUSION  No more than 6.0 units from HIST 248/3.0; HIST 249/3.0; HIST 272/6.0.

HIST 249/3.0  United States, 1865-present  3L
A survey of United States history from Reconstruction to the present, emphasizing social and cultural changes.
PREREQUISITE  Level 2 or above.
EXCLUSION  No more than 6.0 units from HIST 248/3.0; HIST 249/3.0; HIST 272/6.0.
EXCLUSION  HIST 249/3.0.

HIST 250/6.0  The Middle Ages  3L
An introduction to the main themes of Western history between the fall of the Roman Empire and the 15th century.
PREREQUISITE  Level 2 or above.

HIST 251/3.0  History of Terrorism  3L
Contemporary terrorism has long historical roots. This course examines theoretical debates on the nature of terrorism. It considers various definitions of terrorism, its social and political contexts, the influence of ideology, nationalism, religion, and the intellectual legacies of past terrorist movements.
PREREQUISITE  Level 2 or above.
EXCLUSION  HIST 251/3.0.

HIST 252/3.0  Africa in the Modern World  3L
An examination of Africa’s involvement in modern world history. Course covers material from the slave trade to the crumbling of European empires. Major topics include: Pre-colonial African states, slavery, imperialism, the colonial state, African protest and resistance, and women’s issues, among other topics.
NOTE  Offered only as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE  Level 2 or above.

HIST 253/3.0  History of Public Policy  3L
An introduction to the history of social welfare and public policy in Western Europe and North America. Topics include health care and public assistance; employment, pension and education policy; economic and urban planning. A major theme of the course is the emergence and development of civil, political, economic and social ‘rights’.
PREREQUISITE  Level 2 or above.

HIST 255/3.0  Renaissance and Reformation Europe  3L
A survey of the social, cultural, political and intellectual life of Europe in the Renaissance and Reformation. Topics to be discussed include: humanism, secularism, printing, and exploration; war and the early modern state; prophecy, heresy, and dissent; popular culture; sex, marriage, and family life; witch hunts, panics, and magic; and the impact of the Reformation and the Counter Reformation.
PREREQUISITE  Level 2 or above.

HIST 256/3.0  The Making of the North American Environment  3L
A history of North American environmental issues, politics, and movements. The course explores the historical relationship between nature and culture, from the natural world of pre-contact native societies to the contemporary environmental crisis. Topics include the fur trade, 19th-century pollution, national parks, nuclear power, and deep ecology.
NOTE  Offered occasionally as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE  Level 2 or above.
HIST 257/3.0  Environmental History  3L
A global survey of the effects of human activity on our physical surroundings and vice versa, in pre-agricultural,
aricultural and industrial/agricultural societies. The course will be organized topically and themes will include the
relevant problems of historical method, and the history of human attitudes to nature.
PREREQUISITE  Level 2 or above.
EXCLUSION  No more than 3.0 units from ENSC 200/3.0; HIST 257/3.0.

HIST 258/3.0  Slavery in North America from the Colonial Era to 1865  3L
Exames the history of slavery in the United States and Canada from the colonial era to the mid nineteenth-century.
Various approaches will be emphasized.
PREREQUISITE  Level 2 or above.

HIST 260/6.0  Canada from the Conquest to the Present  3L
An introduction to some of the major themes in the social, cultural, economic and political history of Canada.
NOTE  Offered occasionally as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE  Level 2 or above.
EXCLUSION  No more than 6.0 units from HIST 260/6.0; HIST 278/3.0, HIST 279/3.0.
EXCLUSION  No more than 1 course from HIST 260/6.0; HIST 269/3.0.

HIST 261/3.0  History of Acadia 1604 to Today  3L
An introduction to the history of the Acadian population in the Maritime Provinces, from the beginnings of French
colonization to the present day. This course will familiarize students with the major themes and events in the social,
political, economic, and cultural history of the Acadians. Particular attention will be put on the lives of both genders
and all social classes of this French-speaking people.
PREREQUISITE  Level 2 or above.

HIST 262/3.0  The Canadian Challenge II: 1950-2000  3L
The background to Canada’s late twentieth-century political and social debates. Themes to be covered include the
emergence of rival nationalisms within the Canadian state, ideologies that have shaped debates over Canada’s
future, and the Québec and First Nations questions. Such issues will be discussed and debated at a two-day
conference.
NOTE  Field trip and conference: estimated cost $75.
PREREQUISITE  Level 2 or above.

HIST 264/3.0  The Vietnam War in Historical Perspective  3L
A survey of Vietnamese history placing twentieth-century military conflicts in a broad interpretive and temporal
perspective. Reading assignments will be drawn largely from memoirs, literature, and historical scholarship by
Vietnamese authors in English translation.
PREREQUISITE  Level 2 or above.

HIST 265/3.0  The Canadian Challenge I: 1900-1950  3L
The political, social and cultural history of Canada, 1900-1950. Themes to be covered include the emergence of
rival nationalisms within the Canadian state, the Great Depression, and the problems of political leadership
exemplified by such figures as Wilfrid Laurier and Mackenzie King. Major issues involving Canadians in this period
will be discussed and debated at a two-day conference.
NOTE  Field trips and conference: estimated cost $50.
PREREQUISITE  Level 2 or above.

HIST 266/3.0  The Rise and Decline of Apartheid  3L
An examination of both the development of segregation and apartheid in 20th century South Africa and the forces
that caused the eventual collapse of the system.
PREREQUISITE  Level 2 or above.
HIST 267/3.0  Modern Middle East  3L
An introduction to the multi-faceted history and cultural diversity of North Africa and Southwest Asia, a region stretching from Morocco to Afghanistan. Using a variety of sources including historical documents, films, music and literature, the course explores the social coordinates, political dynamics, culture and chronology which are necessary to understand modern events (from WWI) and contemporary conflicts.
NOTE Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE Level 2 or above.

HIST 269/3.0  19th-Century Canadian Political History  3L
An exploration of the politics of Canada from 1791 to the end of the 19th century. Key personalities and issues will be examined. Focus will be on the nature of the various pre-Confederation colonial systems, Confederation and the evolution of the post-Confederation federal political system, with provincial systems receiving treatment on a case-study basis.
PREREQUISITE Level 2 or above.
EXCLUSION No more than 1 course from HIST 260/6.0; HIST 269/3.0.

HIST 272/6.0  United States, Colonial Era to Present
A survey of political, economic, and social developments in the United States from its colonial beginnings to the post-World War II era.
NOTE Offered only as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE Level 2 or above.
EXCLUSION No more than 6.0 units from HIST 248/3.0; HIST 249/3.0; HIST 272/6.0.

HIST 273/3.0  New Imperialism  3L
A survey of the ‘New Imperialism’ of the late 19th and 20th centuries. The course examines the origins and course of European expansion in Africa and Asia, justifications for and theories of empire, and the 20th century decolonization process. It will conclude with reflection on the New Imperialism from the vantage point of ‘globalization’.
PREREQUISITE Level 2 or above.

HIST 274/3.0  Cultural History of Modern France  3L
A cultural history of France from 1750 to the present. In addition to examining developments in French art, literature, and music, the course considers the changing venues and institutions of culture and deals with such overarching themes as French notions of language, sociability, private and public space, gender, and individualism.
PREREQUISITE Level 2 or above.

HIST 276/3.0  The British Imperial World  3L
A survey of British imperialism from the late 18th century through to the 1960s with a thematic focus on imperial expansion and decline, imperial ideologies and power, and the impact of empire on Britain.
PREREQUISITE Level 2 or above.
EXCLUSION No more than 1 course from HIST 254/6.0; HIST 276/3.0.

HIST 277/3.0  From Bismarck to Hitler: The Political Mobilization of German Society 1860-1945  3L
A study of the economic, cultural and social determinants and consequences of the political transformation of Germany in the period 1860 to 1945.
PREREQUISITE Level 2 or above.

HIST 278/3.0  Canada from the Conquest to 1896  3L
A study of the major economic, social and political themes. The emphasis is upon the interaction between political events and change in the economy and society.
PREREQUISITE Level 2 or above.
EXCLUSION No more than 6.0 units from HIST 124/6.0; HIST 278/3.0, HIST 279/3.0.
EXCLUSION No more than 6.0 units from HIST 260/6.0; HIST 278/3.0, HIST 279/3.0.
EXCLUSION No more than 1 course from; HIST 278/3.0; HIST 313/6.0.
HIST 279/3.0  
**20th-Century Canada**
3L
A study of the major economic, social and political themes. The emphasis is upon the interaction between political events and change in the economy and society.
PREREQUISITE  Level 2 or above.
EXCLUSION  No more than 6.0 units from HIST 124/6.0; HIST 278/3.0, HIST 279/3.0.
EXCLUSION  No more than 6.0 units from HIST 260/6.0; HIST 278/3.0, HIST 279/3.0.

HIST 280/6.0  
**Gender in North American History**
3L
A survey of the history of gender in North America. Examines topics such as patriarchy and the unequal status of women, masculinity, racial and ethnic relations, and sexuality. Also considers the impact of gender on historical events and phenomena such as industrialization, class conflict, World War II and the Cold War.
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE  Level 2 or above.
EXCLUSION  No more than 1 course from HIST 280/6.0; HIST 281/3.0.

HIST 281/3.0  
**Gender in History: A European Perspective**
3L
This course highlights the experiences of women in European history. Topics include: changing ideas about male and female identities, family formations, and sexual politics.
PREREQUISITE  Level 2 or above.
EXCLUSION  No more than 1 course from HIST 280/6.0; HIST 281/3.0.

HIST 282/3.0  
**The Making of the Third World I**
3L
The subtitle of this course is ‘Civilizations and Empires in Asia and Africa: The Evolution and Dissolution of the ‘Third World’ from 1500-2005.’ This course discusses civilizations and empires from Antiquity to the Modern Age, European Imperialism and Colonialism from 1500-1945; Asia and Africa from 1945-2005.
PREREQUISITE  Level 2 or above.
EQUIVALENCY  HIST 231/3.0.

HIST 283/3.0  
**The Making of the Third World II**
3L
Discusses Asia, Africa and Latin America since 1945 with emphasis both on particular states (Argentina, South Africa, China for example), and on institutions such as the World Bank, the International Monetary Fund and the World Trade Organization. It also raises the question as to whether the role of the United States in the ‘Third World’ should be considered imperial or merely hegemonic.
PREREQUISITE  Level 2 or above.
EQUIVALENCY  HIST 232/3.0.

HIST 284/3.0  
**The Chinese Outside China**
3L
The history of emigration from China, covering emigrant districts, six centuries of settlement in the Southeast Asian region, Chinese labourers in the Western hemisphere, identity issues, clandestine migration in recent years, and Canada’s position in ‘Greater China.’ Readings include oral histories and memoirs.
PREREQUISITE  Level 2 or above.

HIST 285/3.0  
**Latin America to 1850: The Colonial Experience**
3L
A survey of Latin American history from the pre-conquest era to the mid 19th century. Examines the complexities of Spanish and Portuguese colonialism, the Independence movements, and the ensuing struggle to build a viable post-colonial order.
PREREQUISITE  Level 2 or above.

HIST 286/3.0  
**Latin America from 1850 to Today: The Modern Era**
3L
A survey of Latin American history from 1850 to the recent past. Major events of the 20th century will be examined in historical context, with special attention to issues of development, nation building, and political and social conflict.
PREREQUISITE  Level 2 or above.
HIST 287/3.0 Early Modern England
A survey of English history during the early modern period (16th- and 17th-centuries), with a thematic focus on the formative political, religious, and intellectual upheavals of the age.
NOTE Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE Level 2 or above.

HIST 288/3.0 The Rise of the British Empire
This course surveys the emergence and development of the first British Empire, from the age of exploration through the loss of the American colonies. Topics will include: the conceptual impact of the new world; patterns of migration; slavery; the economic and political impact colonization; and ideologies of empire.
PREREQUISITE Level 2 or above.

HIST 289/3.0 Britain since 1851
A survey of British history in the 19th and 20th centuries.
NOTE Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE Level 2 or above.

HIST 290/3.0 Ireland to 1848
A survey of Irish history from the early Christian era to the Great Famine. Cultural, religious and constitutional developments will be analyzed.
PREREQUISITE Level 2 or above.

HIST 291/3.0 Ireland from 1848 to the Present
A survey of Irish history from the Great Famine onwards. Economic and cultural issues will be considered along with fundamental economic problems. Both the nationalist and the unionist traditions will be analyzed.
PREREQUISITE Level 2 or above.

HIST 292/3.0 The Global Politics of Childhood
Examines representations of and political conflicts about children in a broadly comparative context (primarily the Americas and Europe). Topics include: children and national identity, race, sexuality, war and revolution, adoption.
PREREQUISITE Level 2 or above.

HIST 294/3.0 Arab-Israeli Conflict and Regional Security
The history of violence and attempts at peacemaking in the Arab-Israel conflict, from its beginnings in the twilight years of the Ottoman Empire to the ‘Oslo (1993) peace process’ and the outbreaks of autumn 2000. The impact of this conflict on regional security.
NOTE Offered also as a Cognate course in the Program in Jewish Studies.
PREREQUISITE Level 2 or above.

HIST 295/3.0 The Holocaust
The background to and processes of the destruction of the Jews of Europe between 1933 and 1945. Themes to be covered include: modern anti-semitism, Jewish communities in the inter-war era, Nazi racial policies, the Judenrat, the organization of the death camps, the attitudes of the Christian churches, the role of collaborators, the ideology of mass murder, and the questions of ‘compliance’, ‘resistance’, and ‘silence’.
NOTE Offered also as a Cognate course in the Program in Jewish Studies.
NOTE Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE Level 2 or above.

HIST 296/3.0 The Making of the Muslim Middle East (550-1350 C.E.)
This course examines a formative period of Islamic society: the transformations of the late antique Near East to the Muslim Middle East. The course covers the period of the rise of Islam to the consequences of the Mongol conquests. It surveys the social, political, cultural and religious history of a civilization spanning Spain to Central Asia.
PREREQUISITE Level 2 or above.
HIST 298/3.0  Imperial China  
A survey of Chinese history, thought, and material culture from the time of the first establishment of the unified Empire in 221 B.C.E. to the last Emperor’s abdication in 1912. A variety of recent reconstructions of parts of China’s imperial past will also be discussed. 
PREREQUISITE Level 2 or above.

HIST 299/3.0  China since 1800  
An introduction to China’s recent history, offering interpretive frameworks for issues such as the competence of the Qing government, population growth, revolutionary movements, Mao Zedong’s leadership, and economic expansion. 
PREREQUISITE Level 2 or above.

HIST 300/6.0  Selected Topics in History  
Seminar on a selected historical topic. Topics change from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.
PREREQUISITE A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.

HIST 301/6.0  Medieval Societies  
Selected issues in the political, social and cultural history of Medieval Europe and the Mediterranean. Emphasis on scholarly debates and the interpretation of primary sources in translation.
NOTE In Fall Term, HIST 301/6.0 meets in the same classroom with HIST 218/3.0 or HIST 296/3.0 depending on the year.
PREREQUISITE A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.
EXCLUSION No more than 6.0 units from HIST 218/3.0; HIST 301/6.0.
EXCLUSION No more than 6.0 units from HIST 296/3.0; HIST 301/6.0.

HIST 302/6.0  Colonial Invasions, Colonial Lives  
This course will focus on learning to interpret primary and secondary sources, conduct historical analysis, discern a thesis and methodology, and write analytical short essays. Course examines the impacts of invasion and colonialism on the lives of colonial Latin American subjects.
NOTE In Fall term, HIST 302/6.0 meets in the same classroom with HIST 285/3.0.
PREREQUISITE A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.
EXCLUSION No more than 6.0 units from HIST 285/3.0; HIST 302/6.0.

HIST 303/6.0  History of the Caribbean in a Global Perspective  
An introduction to Caribbean History from the early 15th century to the present. Topics will include early Spanish contact, plantation systems, slavery and resistance, U.S. intervention and globalization. Organizing themes include gender, race and ethnicity, cultural memory systems, identity, rediasporization, popular culture, and postcolonialism.
PREREQUISITE A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.

HIST 304/6.0  The Civil War and the Making of America  
Focus on the causes and consequences of the Civil War, slavery, antebellum social and political divisions, secession, the experiences of soldiers and civilians during the war itself, reconstruction, and the place of the Civil War in US culture since 1877.
NOTE In Fall Term, HIST 304/6.0 meets in the same classroom as HIST 216/3.0.
PREREQUISITE A grade of C+ at the 100-level and registration in a HIST Major or Medial Plan.
EXCLUSION No more than 1 course from HIST 304/6.0; HIST 371/6.0.
EXCLUSION No more than 1 course from HIST 304/6.0 or HIST 216/3.0.
**HIST 305/6.0**  
**Muslim Societies**  
3L/S  
A study of historical societies in which Muslims have played a predominating role, particularly in the Middle East and North Africa. Selected issues in religious, political, social, economic and cultural history will be examined with an emphasis on the interpretation of primary sources in translation and debated scholarly issues.  
NOTE In Fall Term, HIST 305/6.0 meets in the same classroom with HIST 267/3.0 or HIST 296/3.0.  
PREREQUISITE A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.  
EXCLUSION No more than 6.0 units from HIST 267/3.0; HIST 305/6.0.

**HIST 306/6.0**  
**Holocaust: Problems and Interpretations**  
3L/S  
This course examines competing explanations of the genocide of European Jewry in the 1930s-40s and how it was allowed to occur. Students develop skills of analyzing historical documents, writing, class participation, and critical debate of historiography.  
NOTE In Fall Term, HIST 306/6.0 meets in the same classroom as HIST 295/3.0.  
PREREQUISITE A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.  
EXCLUSIONS No more than one course from HIST 295/3.0; HIST 306/6.0.

**HIST 309/6.0**  
**Modern Quebec**  
3S  
An introduction to the major elements in Modern Quebec history, in social, economic, political, ideological and cultural terms, with particular attention to questions of gender, class, and ethnicity. Will also introduce students to basic historical methodology.  
PREREQUISITE A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.

**HIST 310/6.0**  
**Introduction to Modern India: Nationalism, Modernity, Postcolonialism**  
3S  
The history of the Indian subcontinent from the eighteenth century to the present. Topics include the decline of the Mughal Empire, the nature of British colonial domination, the nationalist movement and the processes by which India came to be defined as a modern nation. Course materials include standard works of history, newspapers, novels and images.  
PREREQUISITE A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.

**HIST 311/6.0**  
**America from the Revolution to the Civil War**  
3S  
The birth, growth, and testing of the American nation from 1763 to 1865.  
PREREQUISITE A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.

**HIST 312/6.0**  
**Canadian Social History**  
3S  
An introduction to the themes and approaches pursued by Canadian social historians, including histories of race, gender, class, colonialism, and sexuality. While specific course frameworks may vary, this course seminar will emphasize the writing, research, communication, and analytical skills necessary for more advanced historical study.  
PREREQUISITE A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.

**HIST 313/6.0**  
**British North America, 1759-1867**  
3S  
This course will survey the political, social, economic, and cultural development of the British colonies that became Canada from the conquest of Quebec to Confederation. Native-newcomer relations, the maturation of settler societies, and new institutional structures will receive special attention. Different historical approaches and the use of primary sources will be emphasized.  
PREREQUISITE A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.  
EXCLUSION No more than 1 course from HIST 278/3.0; HIST 313/6.0.

**HIST 314/6.0**  
**American Society and Culture Since 1877**  
3S  
An analysis of significant social and cultural trends in the United States since 1877. Topics include constructions of race and gender; consumer culture; industrialization; the myth of the frontier; popular culture; the civil rights movement.  
PREREQUISITE A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.
HIST 316/6.0  European Politics and Society Since 1789  3S
A basic survey of Europe since 1789. Topics include the origins and consequences of the French Revolution; the Industrial Revolution; the development of parliamentary democracy; nationalism; the origins and consequences of the Russian Revolution; imperialism; the two World Wars; fascism; communism.
PREREQUISITE  A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.

HIST 317/6.0  History of Africa South of the Sahara  3S
A survey of the history of Africa south of the Sahara from the late stone age to the break-up of formal European colonizations of the continent.
PREREQUISITE  A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.

HIST 318/6.0  Modern East Asia  3S
The formation of modern China, Vietnam, Korea, and Japan in historical and regional contexts. The development of research skills is emphasized, along with structured discussion of readings and research.
PREREQUISITE  A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.

HIST 319/6.0  Europe and the Creation of the Atlantic World  3S
An examination of the expansion of Europe and the creation of an Atlantic world from approximately 1450 to 1800. This course focuses on the nature of the Atlantic world, the processes by which it came into existence, and its many discontents. Themes to be explored include cross-cultural contact, conquest, slavery, trade, political formations, gender, intellectual change, race, and revolution.
PREREQUISITE  A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.

HIST 321/6.0  Social and Cultural Change in Europe, 1500-1800  3S
This course explores the society and culture of Early Modern Europe (ca 1500-1800). Students will read and discuss recent works of social and cultural history concerning peasants, impostors, heretics, missionaries, Asians, Persians, kings, and popes in Europe. Topics will include: Religion, Popular Culture, Carnival, Witchcraft, Marriage and Family Life, Imperialism, Courts, Social Criticism, Enlightenment, and Revolution.
PREREQUISITE  A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.

HIST 322/6.0  War and Modern Society  3S
A study of the conduct of war and its implication for society and culture, principally in the 19th and 20th centuries.
PREREQUISITE  A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.

HIST 323/6.0  Modern European Thought and Culture  3S
An examination of selected themes in the cultural and intellectual history of Europe from 1750 to the present.
PREREQUISITE  A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.

HIST 324/6.0  Race and Immigration in North America  3S
Race relations and immigration in North American history, with emphasis on Canada from the 1840s to the 1980s. Covers native-non-native contact, European immigrants, migration of blacks from the U.S. south, ethnic radicalism, Asian immigration, Japanese internment, immigration policy, ‘multiculturalism,’ and changing definitions of ‘race’.
PREREQUISITE  A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.
EXCLUSION  No more than 6.0 units from HIST 238/6.0; HIST 307/3.0; HIST 308/3.0; HIST 324/6.0.

HIST 329/6.0  Modern Britain  3L/S
Topics include political, social, and cultural transformations in the 19th and 20th centuries, the world wars, imperialism and empire, decolonization, the Cold War, and the 1960s. Emphasis on critical interpretation of primary source material and historical debates.
NOTE  In Fall Term, HIST 329/3.0 meets in the same classroom as HIST 289/3.0 or HIST 276/3.0.
PREREQUISITE  A grade of C+ in HIST at the 100-level and registration in a HIST Major or Medial Plan.
EXCLUSION  No more than 6.0 units from HIST 276/3.0; HIST 329/6.0.
EXCLUSION  No more than 6.0 units from HIST 289/3.0; HIST 329/6.0.
HIST 333/3.0  Southern Africa to c.1890  3S
An examination of southern African social history up to the onset of colonial rule. Topics include the ‘bushmen’, early state formation, gender relations, spirituality, early Portuguese feudalism, and the Dutch at the Cape. Fall Term.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 334/3.0  Southern Africa from c.1890  3S
An examination of southern African societies from the consolidation of modern colonial rule up to the present, largely exclusive of apartheid South Africa. Topics include social and political tensions under colonialism, economic development, the ‘invention of tribalism’, independence struggles, and post-colonial issues such as structural adjustment and HIV/AIDS.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 335/6.0  The Age of Jackson  3S
An examination of Americans’ struggles with the conflicting ideals of republicanism and liberalism in the first half of the 19th century. Topics include the presidency of Andrew Jackson, political party formation, Native Americans, African-Americans, women, labour, the expansion of slavery, and the rise of sectional conflict.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.
EQUIVALENCY  HIST 315/6.0.

HIST 336/6.0  The Balkans in Modern Times  3S
An examination of the political and social history of the Balkans from Napoleonic times to the present.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 337/3.0  Debates in the Ottoman Empire  3S
For nearly half a millennium, the Ottoman Empire ruled large parts of Europe, West Asia and North Africa. Although scholars agree on dates and places, they remain divided on almost every other aspect of the Ottoman past. This course investigates Ottoman history through the debates that have driven research over the last half century, beginning in the 13th century and concluding with World War I.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 339/3.0  Jews Without Judaism  3S
This course explores the North American Jewish engagement with modern ideologies such as secularism, antisemitism, liberalism, nationalism, socialism, feminism, and neo-conservativism. Other specific topics include the secularization of universities; the recent retrenchment of Orthodox Judaism; and the resurgence of ‘popular atheism.’
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.
EXCLUSION  HIST 347/6.0.

HIST 340/6.0  French Canada, 1830-2000  3S
The growth of French Canada since the early nineteenth century and the development of its relations with the rest of the country.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.
EQUIVALENCY  HIST 320/6.0.

HIST 341/6.0  German Europe in the Renaissance and Reformation  3S
An introduction to German culture, religion, society and government, 1450-1555. Topics include late mediaeval scholasticism, humanism, Martin Luther, the Swiss Reformation, urban Reformation, Peasants’ War, Anabaptism. A major theme of the course is the changing balance between history of ideas and social history explanations of the Renaissance and Reformation in Germany.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HIST 342/3.0</td>
<td>World History: Theory and Methodology</td>
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<td>An exploration of the theory, historiography and methodologies of the sub-discipline of World History, with particular emphasis on the defining debates of the field. Topics to be discussed include: World Systems Theory, the environment and biological processes as organizing principles, rise of the West, periodization in World History, and Big History.</td>
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<tr>
<td>HIST 344/3.0</td>
<td>Plural Visions: New World Jews and the Invention of Multiculturalism</td>
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<td>An examination of the path that led from the state-sanctioned racial profiling of immigrants in the late nineteenth century to current multicultural ideas and policies in Canada and the United States, with an emphasis on the role Jewish intellectuals, politicians, and community leaders played in developing and, sometimes, resisting such changes.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<td>EXCLUSION No more than 1 course from HIST 344/3.0; HIST 347/6.0.</td>
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<tr>
<td>HIST 345/6.0</td>
<td>The Emergence of Modern America</td>
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<td>Major political, economic, and social developments in the domestic affairs of the United States from 1877 to the post-World War II era.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<td>EQUIVALENCY HIST 325/6.0.</td>
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<td>HIST 346/6.0</td>
<td>Revolution and Unrest in Latin American History</td>
<td>3S</td>
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<td>A seminar on the historical origins of social unrest in 20th-century Latin America. Includes case studies of the Mexican, Cuban, and Nicaraguan revolutions, and the experiences of other insurgent movements from El Salvador to Peru. Explores root causes of political violence and government responses.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<td>HIST 348/6.0</td>
<td>Prophets and Populists, Ranters and Rebels</td>
<td>3S</td>
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<td>An exploration of the adversary tradition in the 19th and 20th century West. Socialist, feminist, labour, populist, and utopian thought is explored in fiction and non-fiction works.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<td>EQUIVALENCY HIST 328/6.0.</td>
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<tr>
<td>HIST 349/3.0</td>
<td>Early Modern European Intellectual History</td>
<td>3S</td>
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<td>An examination of early modern European intellectual history from the early 16th century through the mid-18th century, with a particular focus on political thought. Topics will include the Scientific Revolution, the impact of the Wars of Religion and of overseas expansion on European intellectual life, constitutionalism, Cartesianism, gender, and the political philosophies of Hobbes and Rousseau.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<td>EXCLUSION No more than 1 course from HIST 349/3.0; HIST 329/6.0.</td>
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<td>HIST 350/6.0</td>
<td>New France, Canada During the Old Regime</td>
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<td>French-Canadian developments from the first contact to 1791. The course will focus on the French response to North America and seek to identify the social, economic and cultural influences that shaped the early development of Canadian society during the century before and the three decades after the Conquest.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<td>HIST 356/6.0</td>
<td>Health and Disease in Western Society</td>
<td>3S</td>
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<td>A study of medical theory and practice from Hippocratic-Galenic traditions to the so-called ‘medicalization’ of the early 19th century. Topics will focus on the social impact of diseases.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<td>HIST 359/6.0</td>
<td>Ontario</td>
<td>3S</td>
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<td>Major themes in the history of Ontario from the 18th century to World War II. Selected aspects of local history will be studied. Research involving the use of original sources will be emphasized.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<td>HIST 360/3.0</td>
<td>War and Peace in 20th-Century Western Culture I</td>
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<td>An examination of the impact of warfare on 20th-century western culture. Utilizing a variety of approaches, the seminar will focus on such questions as the role of the state, war and gender, religion and pacifism, nuclear weapons and Cold War culture, and the impact of war on literature and popular culture.</td>
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<td>NOTE Also offered at the Bader International Study Centre, Herstmonceux.</td>
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<td>HIST 361/3.0</td>
<td>War and Peace in 20th-Century Western Culture II</td>
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<td>An examination of the impact of warfare on 20th-century western culture. Utilizing a variety of approaches, the seminar will focus on such questions as the role of the state, war and gender, religion and pacifism, nuclear weapons and Cold War culture, and the impact of war on literature and popular culture.</td>
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<td>HIST 362/3.0</td>
<td>The British Isles in the 19th Century</td>
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<td></td>
<td>The economic, social and political changes which characterized the United Kingdom’s transformation in the 19th century.</td>
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<td>NOTE Also offered at the Bader International Study Centre, Herstmonceux.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<td>HIST 363/3.0</td>
<td>The British Isles in the 20th Century</td>
<td>3S</td>
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<td></td>
<td>The economic, social and political changes which characterized the United Kingdom’s transformation in the 20th century.</td>
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<td>NOTE Also offered at the Bader International Study Centre, Herstmonceux.</td>
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<td>HIST 364/3.0</td>
<td>Imperial Borderlands: Russia and the Soviet Union</td>
<td>3S</td>
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<td>This course examines the multi-ethnic, multi-confessional nature of the lands of the former Russian Empire and Soviet Union, focusing on the borderlands. Topics include nationality policies, the status of Muslims and Jews, definitions of Empire, and the treatment of linguistic minorities.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<td>HIST 365/3.0</td>
<td>History Outside the Book</td>
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<td>Examination of historical research methods using primarily non-printed sources, with emphasis on material culture and its application to community history. Students will examine the use of photographs, ephemera, artefacts, oral history, popular music, movies, magazines and posters to consider how these sources can augment written documentation.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<tr>
<td>HIST 367/6.0</td>
<td>Utopian Visions and Movements for a New Society</td>
<td>3S</td>
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<td>An examination of the recurring dream in European society of a glorious future and of attempts to describe and realize it. The course begins with images of the past and future in Antiquity but focuses extensively on Medieval and Early Modern Europe.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<td>HIST 369/3.0</td>
<td>Major Issues in the History of Terrorism</td>
<td>3S</td>
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<td>This course examines the historical origins of contemporary debates about terrorism. Using historical case studies, it explores major questions such as: defining terrorism; the origins of terrorist ideology; the dynamics of terrorist movements; state terrorism; and the dilemmas of counterterrorism.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<tr>
<td>HIST390/6.0</td>
<td>Selected Topics in History</td>
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<td>Seminar on a selected historical topic. Topics change from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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</table>
HIST 391/6.0  Selected Topics in History  3S
Seminar on a selected historical topic. Topics change from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 392/6.0  Selected Topics in History  3S
Seminar on a selected historical topic. Topics change from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 393/3.0  Selected Topics in History  3S
Seminar on a selected historical topic. Topics change from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 394/3.0  Selected Topics in History  3S
Seminar on a selected historical topic. Topics change from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 395/3.0  Selected Topics in History  3S
Seminar on a selected historical topic. Topics change from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 396/3.0  Selected Topics in History  3S
Seminar on a selected historical topic. Topics change from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 400/6.0  Selected Topics in History  3S
Seminar on a selected historical topic. Topics change from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 401/6.0  Selected Topics in History  3S
Seminar on a selected historical topic. Topics change from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 402/3.0  Selected Topics in History  3S
Seminar on a selected historical topic. Topics change from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 403/3.0  Selected Topics in History  3S
Seminar on a selected historical topic. Topics change from year to year; course is either being offered for the first time or is being taught by visiting faculty. Consult department office or website for details.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 407/3.0  Themes in History of India  3S
Aspects of the history of the Indian subcontinent from the sixteenth century to the present. Topics may include a cultural history of the Mughal Empire, aspects of the British Empire, the ‘consumption’ of India in post/colonial global markets, Bollywood and history, ‘communalism’ and ‘secularism’.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.
HIST 408/3.0  Global Post-Colonial History: Solidarities, Resistance and the Legacy of Bandung
This course examines struggles against racism and imperialism in post-colonial history, especially transnational solidarities and their expression in shared cultures of resistance by peoples of colour across the ‘Third World’ (and, later, the ‘First World’). From 1955 to the present, this course charts the ‘Spirit of Bandung’ in revolutionary politics, culture and history.
PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 410/6.0  Globalization
A history of the rise of global trade, competition, cultural exchange, warfare, imperialism, and development. An examination of the benefits and pitfalls of globalization, the winners and losers, in both the developing world and the rich Western world. Other issues include the possible link between globalization and income inequality and the welfare state.
PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 411/3.0  Globalization, Wealth and Inequality in the West since 1945
Examines the major contours of Western capitalism and the emergence of a more integrated global marketplace since 1945. Topics include: the rise in prosperity followed by the rise in income inequality since the 1970s; technological change; the 'downsizing' phenomenon; related trends in social policy. A balance of pro and con literature on 'globalization' will be examined.
EXCLUSION No more than 1 course from HIST 411/3.0; HIST 410/6.0.

HIST 414/3.0  Colonial India: The State, Knowledge and Power
Examines the colonial state in India in the nineteenth and early twentieth centuries, with a focus on the colonial manifestations of utilitarianism, liberalism and domesticity; and the relationship between power and knowledge as seen in language, anthropology, law, medicine. Other topics include concepts of modernity, nationalism and postcoloniality.
PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 415/6.0  Culture and Postcolonialism in French Canada
Looks at how questions of colonialism, hegemony and decolonization have affected major trends shaping Quebec society and culture in the 19th and 20th centuries. Centers on the French-speaking population and focusses on family formation, gender roles, the Catholic Church, popular entertainment and mentalities.
PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 417/6.0  Byzantine Society, 330-1261
An examination of the principal features of Byzantine society from its foundation in Late Antiquity down to the mid-13th century. The political history of the Byzantine state will be studied alongside many of the characteristic features of Byzantine life, belief and culture.
PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 418/6.0  Reformation and Revolution in Early Modern England
Explores the two watershed crises of England’s early modern era: the Tudor Reformation and the Revolution of 1640-1660. Topics will include: religious warfare; early modern state-building; social and economic upheaval; and the evolution of political thought.
PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 419/6.0  The Italian Renaissance
This course explores the society and culture of the Italian Renaissance (ca 1100-1520). Students will read and discuss great works of literature (Dante, Petrarch, Boccaccio), philosophy (Ficino, Erasmus), political thought (Machiavelli, More), and lesser known sources, such as letters, diaries, and trial records. Topics will include; humanism (reception of classical literature), art, religion, ethics, and violence; ideals and realities about family life, marriage, and gender.
PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.
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<th>Course Code</th>
<th>Course Title</th>
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<td>HIST 420/6.0</td>
<td>Culture and Society in Cold War America</td>
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<td></td>
<td>This course explores the impact of the Cold War</td>
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<td>on the American home front between 1945 and 1991.</td>
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<td>Topics include reactions to the atomic bomb,</td>
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<td>the role of civil defense, McCarthyism, the</td>
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<td>culture of consumption, and the impact of the</td>
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<td>Cold War on the family, politics, religion,</td>
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<td>science, the arts, and social movements.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from</td>
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<td>Medial Plan.</td>
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<td>HIST 421/6.0</td>
<td>The Russian Revolution</td>
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<td></td>
<td>Beginning with the development of revolutionary</td>
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<td>movements in the late 19th century, this course</td>
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<td></td>
<td>will examine major problems in the history of</td>
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<td>the Russian Revolution and the former Soviet</td>
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<td>Union. Special emphasis will be placed on the</td>
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<td>first two decades of Soviet rule and the Stalin</td>
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<td>HIST 422/6.0</td>
<td>The French Revolution</td>
<td>3S</td>
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<td></td>
<td>An examination of the French Revolution and the</td>
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<td>historiographical debates it has engendered.</td>
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<td>Themes to be explored include revolutionary</td>
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<td>political culture, art and festivals, democracy</td>
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<td></td>
<td>and political representation, how the Revolution</td>
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<td>affected women, the Revolution in the countryside,</td>
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<td>Counterrevolution, the nature of the Terror, and</td>
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<td>revolution in the colonies.</td>
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<td>HIST 424/3.0</td>
<td>Cultural History of Enlightenment France</td>
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<td></td>
<td>An examination of how the Enlightenment changed</td>
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<td>French culture, focusing on key ideas of cultural</td>
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<td>development and stagnation, changing sensibility</td>
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<td>and sociability, and cultural institutions and</td>
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<td>venues, from the academy and salon to the</td>
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<td>coffeehouse and Revolutionary festival.</td>
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<td>EXCLUSION No more than 1 course from HIST 331/6.0</td>
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<td>HIST 424/3.0.</td>
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<td>HIST 425/6.0</td>
<td>Black Experience in Canada</td>
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<td></td>
<td>Examines the Black experience in Canada from the</td>
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<td></td>
<td>16th to 20th centuries. Topics include slavery,</td>
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<td>the arrival of the Black Loyalists, the migration</td>
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<td></td>
<td>of fugitive slaves, abolitionism, creation of</td>
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<td></td>
<td>Black communities and institutions. Twentieth</td>
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<td></td>
<td>century themes include military and labour</td>
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<td>participation, social activism, Caribbean</td>
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<td>migration.</td>
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<td>HIST 426/3.0</td>
<td>Culture and Crisis in Fin-de-siècle Europe and</td>
<td>3S</td>
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<tr>
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<td>America</td>
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<td>An examination of the pervasive sense of crisis</td>
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<td>in European and American culture at the end of</td>
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<td>the nineteenth century and the beginning of the</td>
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<td>twentieth. The course considers how this sense</td>
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<td>of crisis affected cultural representations of</td>
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<td>class, culture, nation, gender, and self and</td>
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<td>how it produced a momentous reorientation in</td>
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<td>cultural and intellectual life.</td>
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<td>HIST 427/6.0</td>
<td>Modern European Society</td>
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<td>An intensive examination of the major themes</td>
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<td></td>
<td>and controversies in European social, cultural,</td>
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<td>and political history since the late 18th</td>
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<td>century. Emphasis on France, England, Germany</td>
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<td>and Russia. Topics include the social impact</td>
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<td>of the Industrial Revolution and urbanization;</td>
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<td>the rise of the middle class; Marxism; separate</td>
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<td>sphere ideology and feminism; nationalism;</td>
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<td>fascism; communism; and consumerism.</td>
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<td>Medial Plan.</td>
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<tr>
<td>HIST 429/6.0</td>
<td>American Thought and Culture</td>
<td>3S</td>
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<td>Primary emphasis is placed on social and</td>
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<td>intellectual developments in the 19th century.</td>
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<td>Medial Plan.</td>
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<td>HIST 430/6.0</td>
<td>The Crusades and the Latin Kingdoms</td>
<td>3S</td>
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<td></td>
<td>An exploration of key topics in the history and</td>
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<td>interpretation of the Crusades, the society and</td>
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<td>culture of the Latin Kingdoms, and their impact</td>
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<td>on the peoples of the eastern Mediterranean,</td>
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<td>Muslim and Christian.</td>
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<td>PREREQUISITE A Grade of C+ in 3.0 units from</td>
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<td>EQUIVALENCY HIST 343/6.0.</td>
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<td>Course Code</td>
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<td>HIST 431/3.0</td>
<td>Atlantic Canada</td>
<td>3S</td>
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<td>The political, social, cultural and economic development of the Maritimes and Newfoundland from the early 17th century to the present. PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<td>HIST 432/6.0</td>
<td>Economy and Culture in Nineteenth Century America</td>
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<td>This course examines cultural histories of economic life in nineteenth-century America and explores the ways in which culture and the economy shaped each other throughout the century. Topics may include the market revolution, slavery, financial markets, fiction and the market, industrialization, incorporation, and consumer culture. PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<td>HIST 434/6.0</td>
<td>The Canadian Left in the Twentieth Century</td>
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<td>Throughout the twentieth century, leftists in Canada, socialists, communists, anarchists, feminists, gay and lesbian activists, Greens, and others have struggled to reshape Canadian society and politics. This course traces their attempts to transform Canada by examining distinct periods and frameworks of analysis, concluding with the challenge of globalization. PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<tr>
<td>HIST 435/3.0</td>
<td>World History: Theory and Methodology</td>
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<td>An exploration of the theory, historiography and methodologies of the sub-discipline of World History, with particular emphasis on the defining debates of the field. Topics include: World Systems Theory, the environment and biological processes as organizing principles, rise of the West, periodization in World History, and Big History. PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<tr>
<td>HIST 436/3.0</td>
<td>Topics in Canadian Legal History</td>
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<td>This seminar explores central issues in and approaches to legal history based on Canadian examples. Topics may include the history of crime and punishment; the legal regulation of gender, sexuality, ‘race’, and Native-newcomer relations; the law and the evolution of modern capitalism; and the history of the legal profession, and civil rights. PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<tr>
<td>HIST 437/6.0</td>
<td>Religion and North American Society</td>
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<td>A study of religion in Canada and the United States, concentrating on the period 1800-1930, and examining a wide range of topics such as revivalism, gender, social reform, higher education, missions, the rise of fundamentalism, and the causes of secularization. PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<tr>
<td>HIST 440/3.0</td>
<td>Britain in the Enlightenment Era</td>
<td>3S</td>
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<td>This course will offer a political, social, and intellectual history of the Enlightenment in Britain. The chronological scope of the course will run from the Restoration to the French Revolution. The purpose of the course will be to set Enlightenment ideas within their political, social, and economic context, and introduce students to the methods of contextualism. PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<tr>
<td>HIST 442/3.0</td>
<td>New World Societies</td>
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<td>An exploration of how New World societies were born out of the contact between Europe, Africa, and the Americas that followed Columbus’ landing in 1492. Topics will include contact, colonisation, slavery, trade, race, culture and creolization. PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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<tr>
<td>HIST 443/3.0</td>
<td>U.S. Interventions in the Caribbean Basin, 1823-1989</td>
<td>3S</td>
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<td>An in-depth examination of the evolving relationship between the United States and the Caribbean from 1823 to the end of the Cold War, organized around debates concerning the motives behind U.S. interventions and the changing meaning of sovereignty in the Caribbean World. PREREQUISITE A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.</td>
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</table>
HIST 445/6.0  
Twentieth-Century Germany  
3S  
The course begins with an overview of German society in the generation before World War I and examines the war’s impact on German society and politics during the 1920s. A major portion of the course deals with the Nazi period including the party's origins in the Weimar period, Nazi political structures, social and foreign policies. The course concludes with an overview of post-1945 Germany up to unification.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 446/3.0  
Gender, Sexuality and Race in South Asia  
3S  
This course explores sex, gender, man, woman, as products of particular cultural and scientific contexts, drawing on South Asian material. Themes include sexuality in Hindu mythology, colonial masculinity, sex and the body in Gandhi’s thought, the gendered underpinnings of imperial ideologies, transnational feminism and its postcolonial critics, and the expression of queer identities in South Asia.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 447/3.0  
Sex and the History of Medicine  
3S  
An introduction to discussions of sex and gender in the history of medicine. Main themes include: the impact of cultural and social relations on the production of scientific and medical knowledge on sex and gender, and the impact of science and medicine in the creation of social categories.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 449/3.0  
Topics in Medieval Mediterranean History  
3S  
Thematic topics in the history of the societies and cultures of the Mediterranean region during the medieval era. These can include comparative and cross-cultural studies of society, economy, religion and political formations across the Latin West, Byzantium, and the Islamic World.
EXCLUSION  HIST 409/3.0.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 450/6.0  
Revolutionary Warfare in the Modern Era  
3S  
An examination of the development of revolutionary theory and practice from the French Revolution to the present, showing the continuity and evolution of revolutionary technique under changing social and economic conditions.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 451/6.0  
The Experience of War in 20th Century Europe  
3S  
An examination of transformations in the conception, practice and experience of war in 20th century Europe with a focus on the two World Wars. Topics include international law, gender and the home-front, trench warfare, popular violence and genocide, collaboration and resistance, and memory. Students will read primary sources such as diaries, letters and novels as well as scholarly literature.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 455/6.0  
Heresy, Holiness and Idolatry in the Iberian Atlantic  
3S  
An exploration of the Spanish and Latin American Inquisitions and the Extirpation of Idolatries campaigns against indigenous peoples between 1492 and 1700. Themes include understanding Catholic orthodoxy, and how the practices of healing, prayer, witchcraft, and mysticism served as cultural unifiers and as markers of gender and ethnic differences.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 456/3.0  
Islam in World History  
3S  
An advanced study of a particular topic on the Islamic world and/or Muslim diaspora in relation to a global historiographical theme, whether religion and state, gender, migration, war, cosmopolitanism, or other issues. A previous course in Middle Eastern or Islamic world history is desirable.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.
HIST 458/6.0  The Social History of Modern Canada  3S
Studies in Canadian society in its pre-industrial, industrial and post-industrial aspects, 1900-1975. Topics in labour, immigration, childhood, family, urban and rural history, with emphasis upon both the cultural and technological contexts of social change. Readings from the traditional and ‘new’ social history literatures. The discussion is national in scope with focus upon distinctive regional developments.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 459/6.0  British Culture and Society, 1780-1914  3S
An exploration of approaches to ‘community’ and ‘society’ in British thought and culture from the late 18th to the early 20th century.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 460/6.0  The British and India, 1765-1947  3S
An introduction to the study of British rule in India. This course examines the impact of the colonial governance of India on Britain from the mid-eighteenth century to Independence.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 461/3.0  Race and Ethnicity in Latin America, 1492 to the Present  3S
Examines the history of race relations in Latin America from European contact to the present. Topics include indigenous resistance and adaptation to conquest, African slavery and emancipation, debates about assimilation versus cultural survival, and whether Latin America provides a unique model of race relations.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 462/3.0  Modernization & Cultural Change in Latin America, 19th & 20th Centuries  3S
Examines the social and cultural transformation of Latin America from 1850 to 1950. Themes include nation-building, urbanization, emergence of new social classes, changing role of women, debates about immigration, crime, public health, and the ‘social question’, and the persistence of fundamental problems of poverty and inequality.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 463/3.0  Liberalism, Authoritarianism and Citizenship in Latin America  3S
Key debates in the political history of Latin America from Independence (1820s) to the recent past. Themes include the tension between liberalism and authoritarianism; struggles for civil, political, and human rights; populism and charismatic leaders; revolutionary and reactionary ideologies.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 464/6.0  The History of Sexuality  3S
This course examines the history of sexuality in a comparative context, using Canada, Britain and the United States in the 19th and 20th centuries as a focus.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 465/6.0  Topics in Women’s History  3S
Comparative studies in the history of women and their experiences. Topics will vary from year to year.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 467/6.0  First Nations of North America  3S
An examination of First Nations history from ancient times to the present in North America with a particular focus on the Canadian experience. Topics include culture theory, disease, trade, missionaries, the writing of native history, and contemporary events.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 468/6.0  Topics in Modern European Intellectual and Cultural History  3S
An in-depth examination of intellectual and cultural changes in continental Europe, 1750 to the present, organized around such themes as changing views of selfhood, rationality, emotions, irrationality, and technology. Movements that might be examined include the late Enlightenment, Romanticism, realism, and modernism.
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.
HIST 470/3.0  The Development of Capitalism in Africa  3S
An examination and discussion of the economic and social history of Sub-Saharan Africa with a primary focus on the 19th and 20th centuries.
PREREQUISITE    A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.
EXCLUSION    No more than 6.0 units from HIST 469/6.0; HIST 470/3.0; HIST 471/3.0.

HIST 471/3.0  The Development of Capitalism in Africa  3S
An examination and discussion of the economic and social history of Sub-Saharan Africa with a primary focus on the 19th and 20th centuries.
PREREQUISITE    A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan and HIST 470/3.0.
EXCLUSION    No more than 6.0 units from HIST 469/6.0; HIST 470/3.0; HIST 471/3.0.

HIST 475/3.0  Capitalism: A History  3S
The seminar considers capitalism as the result of economic, social, political, and cultural change within interconnected regions of the world during the past millennium. Readings introduce scholarly critiques of Eurocentrism along with Marxist and post-structuralist critiques of capitalism and analyze increasing inequality between peoples and within societies over time.
PREREQUISITE    A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 476/6.0  Canada at War  3S
An exploration of war in a Canadian context, with an emphasis on how war has shaped Canadian society and the relationship between Canada and its armed forces. Topics to be studied, from a Canadian perspective, include the military as a profession, military culture, combat stress, leadership, gender and sexuality in the military, and mutinies.
PREREQUISITE    A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 479/6.0  The Theory and Practice of Development  3S
An exploration of the history of the theory and practice of development with particular reference to Tropical Africa.
PREREQUISITE    A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 482/3.0  Historiography of Medicine  3S
An examination of historiography aspects of medical history including History and Philosophy, old and new subjects, old and new methods, old and new text styles. Students may orient readings to focus either on specific periods and places or on broad trends in History.
PREREQUISITE    A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 484/3.0  Topics in Irish History, 1798 to the Present  3S
An exploration of topics in the social, cultural, political and economic history of Ireland from the Rising of 1798 onwards.
PREREQUISITE    A Grade of C+ in 3.0 units from HIST 300-329; a GPA of 3.30 in all history courses; and registration in a HIST Major or Medial Plan.

HIST 488/3.0  Nobel Prize in Medicine: Who won it; Who didn’t; and Why?  3S
By studying the careers of Nobel laureates as individuals and as groups, students will become familiar with landmarks (and disasters) in twentieth-century science. They will also learn to write and criticize histories of science and commemoration.
PREREQUISITE    A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 490/3.0  Topics in Renaissance History  3S
Topics will vary from year to year, but might include: Renaissance Rome, Renaissance Venice, or Machiavelli’s World. This course will introduce students to the larger issues and methods of Renaissance history by focusing on a specific place or a thinker and his/her times.
PREREQUISITE    A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.
**HIST 498/3.0  China’s Revolutions, 1911 to 1949**  
A course on China’s nationalist and communist revolutions. Readings explore rival revolutionaries’ goals and programs. Seminars examine the internal and international struggles affecting the outcome of the civil war of 1946-1949.  
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

**HIST 499/3.0  China Since 1949**  
Explores political, economic, and cultural change in the People’s Republic of China, while providing an introduction to specialized research methods. Attention will also be devoted to the recent history of Taiwan and Hong Kong.  
PREREQUISITE  A Grade of C+ in 3.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

**HIST 515/6.0  Independent Study Project**  
The project may be either a research paper involving the use of primary and secondary sources, or a more broadly conceived independent reading program.  
NOTE  Students must obtain the approval of the supervising instructor and of the Undergraduate Committee for any project submitted.  
PREREQUISITE  Level 4 and (registered in a HIST Major or Medial Plan) and (a GPA of 3.30) and (30.0 units in HIST).  
EXCLUSION  No more than 1 course from HIST 515/6.0; HIST 517/3.0.

**HIST 517/3.0  Independent Study Project**  
The paper may be either a research project involving the use of primary and secondary sources, or a more broadly conceived independent reading program.  
NOTE  Students must obtain the approval of the supervising instructor and of the Undergraduate Committee for any project submitted.  
PREREQUISITE  Level 4 and (registered in a HIST Major or Medial Plan) and DEV 430/3.0 and (a GPA of 3.30) and (30.0 units in HIST).  
EXCLUSION  No more than 1 course from HIST 515/6.0; HIST 517/3.0.  
EXCLUSION  No more than 1 course from HIST 516/6.0; HIST 517/3.0.
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<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Corequisites</th>
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<tr>
<td>HLTH 101/3.0</td>
<td>Social Determinants of Health</td>
<td>3L; 1T</td>
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<td>This course provides an introduction to the study of health and illness, and explores the social determinants of health, which are the factors that affect the chances people have to lead healthy lives. Topics to be discussed include: what is health?; population and public health; specific social determinants such as income and housing; health among Aboriginal people; globalization; and HIV/AIDS in Africa.</td>
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<tr>
<td>HLTH 102/3.0</td>
<td>Physical Determinants of Health</td>
<td>3L</td>
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<td>This course provides an introduction to current health issues and factors that contribute positively and negatively to health. An emphasis is placed on Canadian health issues and population trends in physical health indicators. NOTE Not available to students in a PHED or KINE Plan. ONE-WAY EXCLUSION May not be taken with or after 12.0 units in KNPE (formerly PPHE; PHED; KINE).</td>
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<tr>
<td>HLTH 200/3.0</td>
<td>Physical Fitness and Wellness</td>
<td>3L; 1T</td>
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<td>An overview of principles of physical fitness and wellness with an emphasis on the planning and implementation of a personalized physical fitness program. ONE-WAY EXCLUSION May not be taken with or after: KNPE 227/3.0 (formerly PHED 155/3.0); KNPE 255/3.0 (formerly PHED 255/3.0).</td>
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<td>HLTH 205/3.0</td>
<td>Introduction to Health Promotion</td>
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<td>A survey of the practice of health promotion. Topics include the field’s history, philosophies of health promotion, the social ecological framework, program planning and evaluation, practitioner skills and competencies, cultural competence, ethics, the use of theory, community organizing, social marketing, harm reduction, information literacy, and health promotion practice in selected settings. PREREQUISITE Level 2 and registration in a KINE, HLTH or PHED Plan and HLTH 101/3.0.</td>
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<td>HLTH 230/3.0</td>
<td>Basic Human Nutrition</td>
<td>3L</td>
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<td>Study of macronutrients, selected micronutrients, energy needs for human performance, relationship of nutrient metabolism to health, consequences of nutrient deficiencies and excesses. Examine how student’s own food intake may influence present and future nutritional well-being. NOTE Also offered as a distance course. Consult Continuing and Distance Studies. RECOMMENDATION 4U Biology. PREREQUISITE Level 2. EXCLUSION No more than 3.0 units from HLTH 131/3.0; HLTH 230/3.0; NURS 100/3.0.</td>
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<tr>
<td>HLTH 237/3.0</td>
<td>Introduction to the Study of Alcohol and Drug Problems</td>
<td>3L</td>
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<td>An overview of theoretical and practical issues. Topics include drug action, theories of drug abuse, treatment strategies, and community resources. Students prepare group presentations on trends, needs of selected populations, and issues of controversy. PREREQUISITE PSYC 100/6.0.</td>
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<td>HLTH 239/3.0</td>
<td>Drug Wars and Cultures in 20th-Century North America</td>
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<td>An examination of the significance and diversity of drug cultures in the past century in the United States and Canada. The course focuses upon defining ‘drugs’ in changing historical contexts and locating their place within dominant socio/cultural groups and subcultures. The course also considers changing attitudes toward drugs over time, and official responses to drugs as a deviant force, including global, hemispheric, and national ‘wars’ on illegal substances. NOTE Offered in alternate years starting in 2003-04. PREREQUISITE Level 2.</td>
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</table>
HLTH 252/3.0 **Introduction to Research Methods** 3L
This course provides an introduction to methods, techniques and approaches to research in health studies. The course will explore the formulation of research questions, experimental design, interpretation of results and the use of statistical analysis in experimental research. Ethical issues in research will also be discussed.
PREREQUISITE Level 2 or above and registered in a KINE, PHED or a (HLTH Major or Medial) Plan.
COREQUISITE 3.0 units from STAT 261/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0; COMM 162/3.0; ECON 250/3.0; PSYC 202/3.0; SOCY 211/3.0; BIOL 243/3.0; CHEE 209/3.0; GPHY 247/3.0; KNPE 251/3.0 or PHED 251/3.0; POLS 385/3.0; NURS 323/3.0.
ONE-WAY EXCLUSION May not be taken with or after: GPHY 240/3.0; PSYC 203/3.0; SOCY 210/3.0.

HLTH 297/3.0 **Special Topics in Health Studies** 3L
This course will explore topics that are current and/or of special interest in the area of health enhancement and disease prevention. Offered periodically by visiting professors or members of the faculty. Students should check with the School regarding availability. Restricted to students in a concentration in health studies, kinesiology or physical and health education.
NOTE Priority access to HLTH students.
PREREQUISITE Level 2 in a HLTH, PHED or KINE plan and HLTH 101/3.0.

HLTH 315/3.0 **Theory and Practice of Health Behaviour Change** 3L
This course provides an overview of models and theories of health behaviour change at varying levels of practice and analysis, including individual, intrapersonal, group, and community influences on health behaviour. Students will learn how theories are applied in health promotion interventions in a variety of settings, with a variety of populations, and for a variety of health behaviours.
PREREQUISITES PSYC 100/6.0 and (3.0 units from HLTH 205/3.0; KNPE 265/3.0; PHED 165/3.0) and registered in a HLTH, KINE or PHED Plan.

HLTH 323/3.0 **Epidemiology** 2L;1S/T
Basic methods involved in researching the distribution and determinants of health and disease in populations. Core measurement (rates, standardization, impact, association) and interpretation (bias, confounding, interaction, chance) issues are covered. The course also examines epidemiological approaches to study design including descriptive (cross-sectional and ecological), observational (case-control and cohort), and experimental (randomized controlled trials) approaches. Restricted to students in a concentration in health studies, kinesiology or physical and health education.
NOTE Restricted to students in a HLTH, KINE or PHED Plan. Limited spaces are available to students in the LISC CRSS Specialization Plan.
PREREQUISITE (KNPE 251/3.0 or NURS 323/3.0) and (GPHY 240/3.0 or HLTH 252/3.0 or PSYC 203/3.0 or SOCY 210/3.0).
ONE-WAY EXCLUSION May not be taken with or after: EPID 301/3.0.

HLTH 325/3.0 **Epidemiology of Physical Activity, Fitness and Health** 3L
This course provides an in-depth examination of the epidemiology of physical activity, fitness and health. The course builds upon basic epidemiological methods and explores the relationship between physical activity and several health outcomes, including coronary heart disease, stroke, metabolic syndrome, type 2 diabetes and cancer.
PREREQUISITE HLTH 323/3.0.
EXCLUSION No more than 3.0 units from HLTH 325/3.0; KNPE 255/3.0 (formerly PHED 255/3.0) and registered in a HLTH, KINE or PHED Plan.

HLTH 331/3.0 **Advanced Human Nutrition** 3L
Current issues relating to nutrition and health promotion/disease prevention. Such topics as cardiovascular disease, weight control, eating disorders, nutrient needs during the life cycle, fads and quackery, sociocultural, economic and media influences. Topics may vary.
PREREQUISITE HLTH 230/3.0 or HLTH 131/3.0 or NURS 100/3.0.
HLTH 333/3.0  Contemporary Issues in Human Sexuality  2L;1T
An investigation of current influences on sexual health. Issues will be considered from social, political and historical perspectives. Topics which may be covered include sex education; lesbian, gay, bisexual and transgender issues; sexual human rights; sexuality and war; sexuality and globalization; HIV/AIDS; the history of marriage; and sexual violence.
PREREQUISITE  Level 3 in a PHED, KINE, HLTH, DEVS or NURS Plan.

HLTH 334/3.0  The Politics of Health and Illness  2L;1T
Explores cultural meanings of health and illness, the power dynamics through which these meanings are constructed, and related injustices in bodily experiences.
NOTE  Limited spots are available for students in a DEVS or NURS Plan.
PREREQUISITES  (HLTH 101/3.0 or KNPE 167/3.0 or PHED 167/3.0 or SOCY 122/6.0) and level 3 in a PHED, KINE or HLTH plan.

HLTH 350/3.0  Topics in Global Health  3L/S
This course examines global health from a variety of perspectives, including anthropological, epidemiological, and sociological, to help understand the cultural and historical patterns shaping global health inequalities. With an emphasis on resource-poor countries, specific topics may include infectious and non-communicable diseases, nutrition and maternal health.
PREREQUISITE  Level 3 in a HLTH, PHED or KINE Plan and HLTH 101/3.0.

HLTH 352/3.0  Research-Based Internship  1S;3P
An internship for students in Health Studies working in the research labs and on research projects of SKHS faculty members. Includes a seminar series covering research topics and methodologies in: Applied Exercise Science; Epidemiology; Health Promotion; Psychology of Sport; Physical Activity and Health; and Sociology of Sport and Health.
NOTE  Students will apply for a research-based internship at the end of their second year. Recommended for students who intend to complete HLTH 595/6.0.
PREREQUISITES  KNPE 251/3.0 or NURS 323/3.0; Level 3 in a HLTH Plan.
COREQUISITE  HLTH 252/3.0
EXCLUSION  No more than 3.0 units from HLTH 352/3.0 or KNPE 352/3.0.

HLTH 355/3.0  Topics in Urban Health  2L;1S
This course will examine topics in current research on urban social and built environments and health. Readings will come from the field of social epidemiology, urban sociology, and planning. The course will critically assess the processes and mechanisms by which urban environments are hypothesized to influence health-related behaviours and outcomes.
PREREQUISITES  HLTH 101/3.0 and Level 3 in a HLTH, KINE or PHED Plan.

HLTH 397/3.0  Special Topics in Health Studies I  3L/S
Intensive coverage of topics that are current and/or of special interest in the area of Health Studies. Offered periodically by visiting professors or members of faculty. Students should check with the School regarding availability of this course.
NOTE  Restricted to students in a concentration in health studies, kinesiology or physical and health education.
PREREQUISITE  Level 3.

HLTH 399/3.0  Special Topics in Health Studies II  3L/S
Intensive coverage of topics that are current and/or of special interest in the area of Health Studies. Offered periodically by visiting professors or members of faculty. Students should check with the School regarding availability of this course.
NOTE  Restricted to students in a concentration in health studies, kinesiology or physical and health education.
PREREQUISITE  Level 3.
HLTH 405/3.0  Canadian Health Policy  2L;1T
This course provides an overview of Canadian health policy. Topics to be discussed include policy making frameworks; the history of the Canadian public health care system; the Canada Health Act; the political and economic environment of the Canadian health care system; the Canadian system in comparative perspective; and contemporary issues, ideas, and challenges in Canadian health policy.
PREREQUISITE  [Level 4 and registration in a (Major or Medial HLTH Plan) or PHED Specialization Plan or KINE Specialization Plan] and HLTH 101/3.0.

HLTH 415/6.0  Program Design and Evaluation  1.5L/S;1.5P
An examination and application of the principles of program planning in a variety of settings. Topics will include needs assessment, intervention design and implementation, and evaluation. Students will develop a program plan with a community organization and work toward its transformation into an active program. The application of selected program design models will serve as a basis for the course.
PREREQUISITES  [Level 4 and registration in a (Major or Medial HLTH Plan) or PHED Specialization Plan or KINE Specialization Plan] and HLTH 252/3.0 and HLTH 315/3.0.
EXCLUSION  HLTH 415/3.0.

HLTH 423/3.0  Advanced Studies in Epidemiology  3L/S
Intensive coverage of topics that are current and/or of special interest in the area of epidemiology. Offered periodically by visiting professors or members of faculty. Students should check with the School regarding availability of this course.
PREREQUISITES  [Level 4 and registration in a (Major or Medial HLTH Plan) or PHED Specialization Plan or KINE Specialization Plan] and HLTH 323/3.0.

HLTH 430/3.0  Sociocultural Studies of Food  3S
What we eat tells us about who we are and how we see ourselves, as individuals and groups. This seminar style course will draw on scholarly literature from a range of disciplines including health studies, history, politics, sociology, anthropology, philosophy, cultural studies, and women’s studies to explore contemporary issues related to food and eating.
PREREQUISITE  [Level 3 or above in a HLTH Major or Medial Plan] or [Level 3 or above in a PHED Specialization or KINE Specialization Plan and (HLTH 333/3.0 or HLTH 334/3.0)].

HLTH 432/3.0  Disease, Disability and Quality of Life  2L/S;1S
This course examines the impact of disease and disability on quality of life. The course material addresses the biomedical, social, psychological, and behavioural factors affecting the quality of life of individuals with a chronic disease or a physical, psychological, developmental or sensory impairment.
RECOMMENDATION  KNPE 333/3.0 or PHED 333/3.0 or PPHE 333/3.0.
PREREQUISITE  Level 3 or above in a (HLTH Major or Medial), PHED Specialization or KINE Specialization Plan.
EXCLUSION  No more than 3.0 units from HLTH 432/3.0; HLTH 495/3.0 (2007/08).

HLTH 434/3.0  Social Movements in Health  3S
This course explores the proliferation of health social movements since the 1970s. Bringing together the interdisciplinary study of health and illness with a range of social movement theory, the course analyses the strategies, goals, and outcomes of political organizing around conditions ranging from HIV/AIDS to sick building syndrome. Students will lead seminar discussions and undertake original research on a movement of their choice.
PREREQUISITE  HLTH 333/3.0 or HLTH 334/3.0 or DEVS 320/3.0.
EXCLUSION  No more than 3.0 units from HLTH 434/3.0; HLTH 493/3.0 (2006/07). EXCLUSION  No more than 3.0 units from HLTH 435/3.0; HLTH 497/3.0 (2006/07).

HLTH 435/3.0  Seminar on HIV/AIDS Prevention  3S
This seminar-style course involves critical assessment of HIV prevention interventions situated at varying levels of analysis and action. Consistent with the epidemiology of HIV/AIDS, the course focuses on interventions for disadvantaged and marginalized populations. Students should be prepared to lead discussion and present in class.
PREREQUISITE  HLTH 315/3.0.
EXCLUSION  No more than 3.0 units from HLTH 435/3.0; HLTH 497/3.0 (2006-2007).
HLTH 456/3.0  **Survey of Research and Literature in Health Studies**  
Independent study involving a critical review of the literature on an approved topic of specialization in Health Studies. Students must arrange for a faculty advisor approved by the School of Kinesiology and Health Studies. Limited spaces are available.  
PREREQUISITES  Level 4 in a PHED Specialization, KINE Specialization or (HLTH Major or Medial) Plan and permission of the supervisor and Undergraduate Coordinator in the School of Kinesiology and Health Studies.

HLTH 491/3.0  **Special Project in Health Studies**  
This is an independent project in an area of specialization in Health Studies. Students must arrange for a faculty advisor approved by the School of Kinesiology and Health Studies to oversee their project.  
PREREQUISITES  Level 4 in a PHED Specialization, KINE Specialization or (HLTH Major or Medial) Plan; permission of the supervisor and the Undergraduate Coordinator of Kinesiology and Health Studies.

HLTH 493/3.0  **Advanced Topics in Health Studies I**  
Honours level courses exploring advanced topics that are current and/or of special interest in the area of health studies. Students should check with the School of Kinesiology and Health Studies regarding availability of these courses.  
PREREQUISITE  Level 4 in a PHED Specialization, KINE Specialization or (HLTH Major or Medial) Plan.  
EXCLUSION  No more than 3.0 units from HLTH 434/3.0; HLTH 493/3.0 (2006/07).

HLTH 495/3.0  **Advanced Topics in Health Studies II**  
Honours level courses exploring advanced topics that are current and/or of special interest in the area of health studies. Students should check with the School of Kinesiology and Health Studies regarding availability of these courses.  
PREREQUISITE  Level 4 in a PHED Specialization, KINE Specialization or (HLTH Major or Medial) Plan.  
EXCLUSION  No more than 3.0 units from HLTH 432/3.0; HLTH 495/3.0 (2007/08).

HLTH 497/3.0  **Special Topics in Health Studies I**  
Intensive coverage of topics that are current and/or of special interest in the area of Health Studies. Offered periodically by visiting professors or members of faculty. Students should check with the School regarding availability of this course.  
PREREQUISITE  Level 4 in a PHED Specialization, KINE Specialization or (HLTH Major or Medial) Plan.  
EXCLUSION  No more than 3.0 units from HLTH 435/3.0; HLTH 497/3.0 (2006/07).

HLTH 499/3.0  **Special Topics in Health Studies II**  
Intensive coverage of topics that are current and/or of special interest in the area of Health Studies. Offered periodically by visiting professors or members of faculty. Students should check with the School regarding availability of this course.  
PREREQUISITE  Level 4 in a PHED Specialization, KINE Specialization or (HLTH Major or Medial) Plan.

HLTH 595/6.0  **Honours Thesis in Health Studies**  
An independent study involving a research proposal and project on an approved topic in the area of health enhancement or disease prevention. The research proposal will be completed in the fall term and the research project in the winter term. Students must arrange for a full-time faculty advisor in the School of Kinesiology and Health Studies.  
NOTE  Limited spaces available; priority to Health Studies students.  
RECOMMENDATION  HLTH 252/3.0.  
PREREQUISITE  A GPA of 3.50 and level 4 in a PHED Specialization, KINE Specialization or (HLTH Major or Medial) Plan; permission of the supervisor and Undergraduate Coordinator in the School of Kinesiology and Health Studies.
IDIS 200/6.0  Introduction to Semiotics and Communication  3L
This course presents a critical study of the interpretative acts underlying the understanding of signs. It traces the development of semiotics from an historical perspective through the works of theoreticians such as F.de Saussure, C.S.Peirce, R.Barthes, A.J.Greimans, U.Eco, and S.Lange. Particular attention will be paid to the function of verbal and non-verbal signs in the literary and linguistic fields as well as communication through theatre, cinema, art, and the media.
NOTE    Administered by the Department of Languages, Literatures and Cultures.

IDIS 201/6.0  Introduction to Romance Philology  3L
This course aims at familiarizing students from diverse programs with some of the fundamental concepts of Romance Philology. The analysis of the first literary and non-literary documents of the Romance languages will be a fundamental part of the course together with the understanding of the evolution of Latin into Vulgar Latin and its differentiation into Romance languages. Particular attention will be paid to Spanish, Italian, and French.
NOTE    Administered by the Department of Languages, Literatures and Cultures.

IDIS 210/3.0  Arts in Society  3L
A broad-ranging introduction to the role arts play in human society with a focus on contemporary production and research. Through a series of guest speakers, students will engage with the arts’ living practices embedded in social interaction addressing topics as wide-ranging as aesthetics, politics, race, representation, critical theory, and identities.
NOTE    Students will be required to attend a variety of arts events outside class time which may include concerts, gallery exhibitions, performances, film screenings.
NOTE    Administered by the Department of Drama.
PREREQUISITE    Level 2.

IDIS 302/3.0  ‘Race’ and Racism  3L;1T bi-weekly
Historical and contemporary racism and anti-racism; critical ‘race’ theories; experiences of people of colour; case studies of ‘sites of struggle’ around which racism is constructed and resisted, including communities, institutions, the nation state; Canadian focus and international examples.
NOTE    Administered by the Department of Geography.
PREREQUISITE    Level 2.

IDIS 303/3.0  Mathematics and Poetry  3L
An exploration of the way in which the patterns that we observe in the world about us can be described by language and understood with the tools of analysis and synthesis. A carefully selected sequence of poems and mathematical problems will be examined in a discussion format, and students will be expected to examine similar examples on their own.
NOTE    Administered by the Departments of English Language and Literature and Mathematics and Statistics.
PREREQUISITE    Level 3 or above.
EXCLUSION    No more than 3.0 units from IDIS 303/3.0 and MATH 382/3.0 (prior to 2006-07).

IDIS 304/3.0  British Studies I  3L
An interdisciplinary introduction to the broad development of British life and culture, focusing on British national identity. The course usually combines British art history, history, literature and geography.
NOTE    Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITE    Level 2 or above.

IDIS 305/3.0  British Studies II  3L
An interdisciplinary introduction to the broad development of British life and culture, focusing on cultural and political conflicts in British society. The course usually combines British art history, history, literature and geography.
NOTE    Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITE    Level 2 or above.
IDIS 311/3.0  Sound Production  3L/S;2P
A production class exploring the formal concepts, historical underpinnings, and technical tools used in the production of independent sound works, or in the production of more elaborate sound components for video, film or theatrical projects.
NOTE    Administered by the Department of Film and Media.
PREREQUISITE    Level 3 or above.

IDIS 410/3.0  Contemporary Cultural Performance in Practice  3S;2P
Students in film, visual art, drama, and music explore new modes of interdisciplinary performance practice through the creation of a collective work performed in public. Enrolment is limited.
NOTE    Administered by the Department of Film and Media.
PREREQUISITE    Level 4 in a FILM, ARTF, DRAM or MUSC Plan.
INTS 221/3.0    **Global Issues of the 21st Century**
A variety of intellectual approaches will be integrated in an interdisciplinary exploration of some of the major challenges facing the world community. Examination of such issues as the environment, poverty, disease, human rights, cultural identity or armed conflict will be used to stimulate discovery of what constitutes ‘global engagement’. Topics will vary and the course may not be offered in every term.
NOTE    Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITE    Level 2 or permission of the instructor.

INTS 300/3.0    **Special Studies in Britain and Europe in a Global Context I**    3S
This course will offer a unique opportunity to study a special topic in Britain and Europe in a global context. Topics will vary each term, and the course may not be offered every year. For detailed course description, see www.queensu.ca/isc.
NOTE    Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITE    Level 2 or permission of the instructor.

INTS 301/3.0    **Special Studies in Britain and Europe in a Global Context II**    3S
This course will offer a unique opportunity to study a special topic in Britain and Europe in a global context. Topics will vary each term, and the course may not be offered every year. For detailed course description, see www.queensu.ca/isc.
NOTE    Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITE    Level 2 or permission of the instructor.

INTS 303/3.0    **The Global Village: Case Studies of South Eastern England**    3S
This course will examine ways in which southeastern England has been and is connected to the world. Students will develop an appropriate research methodology drawing on local archival and oral resources to investigate selected topics. Topics will vary yearly and may be examined from a variety of perspectives: historical, sociological, cultural or within a multidisciplinary framework.
NOTE    Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITE    Level 2 or permission of the instructor.

INTS 306/3.0    **Culture, Identity and Self**    3L
An introduction to the theory and formation of cultural identity with some reference to cross-cultural issues.
NOTE    Administered by the Department of Philosophy.
NOTE    Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE    Level 2 or above.
EQUIVALENCY    *IDIS 306/3.0.*

INTS 307/3.0    **Intercultural Relations**    3L
An examination of individual and group relations within and between culturally diverse societies. Topics include: relations among indigenous, immigrant and ethnocultural communities; acculturation and identity strategies; the role of prejudice, discrimination, dominance, emotions and values; intercultural communications and training; and modes of mutual accommodation (pluralism, internationalism and globalism).
NOTE    Administered by the Department of Sociology.
NOTE Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE Level 2 or above.
EQUIVALENCY IDIS 307/3.0.

INTS 312/3.0 Seminar in Modern European Studies I 3S
This course will offer a unique opportunity to study a special topic in Modern European Studies. Topics will vary each term, and the course may not be offered every year. For a detailed course description, see www.queensu.ca/isc.
NOTE Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITE Level 2 or permission of the instructor.

INTS 313/3.0 Seminar in Modern European Studies II 3S
This course will offer a unique opportunity to study a special topic in Modern European Studies. Topics will vary each term, and the course may not be offered every year. For a detailed course description, see www.queensu.ca/isc.
NOTE Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITE Level 2 or permission of the instructor.

INTS 320/3.0 Fascism in Europe from Napoleon to Hitler 3L
An introduction to the growth of the fascist mentality in Europe from a cultural perspective. The course will treat the Third Reich as part of the broader conservative and nationalist challenge to liberalism.
NOTE Administered by the Department of Languages, Literatures and Cultures.
PREREQUISITE Level 2 or above.

INTS 321/3.0 Urban Images: Race, Gender, Sexuality and the Imagined City 3L
A comparative discussion of the representation of a number of global cities in contemporary fiction, film, and scholarly criticism with a focus on race, gender, and sexuality. The course explores recent shifts in understanding of cities and of urban life and the widely varying narratives these shifts have engendered.
NOTE Administered by the Department of Languages, Literatures and Cultures.
PREREQUISITE Level 2 or permission of the Department.

INTS 322/3.0 Conflict and Culture: Literature, Law, and Human Rights 3L
An examination of international discourses on conflict and resolution, including theories of reconciliation, human rights, and international law, as portrayed in various media (fiction, theatre and film) and diverse cultural contexts (e.g. ancient Greece, Germany, South Africa and Canada).
NOTE Administered by the Department of Languages, Literatures and Cultures.
PREREQUISITE Level 2 or permission of the Department.

INTS 323/3.0 International Perspectives in the Creative Arts I 3S
A study of thematic and stylistic approaches to the representation of selected cultures and to the presentation and evocation of global issues in one or more of the fine, performing or media arts. Topics will vary each year. For detailed course description, see www.queensu.ca/isc.
NOTE Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITE  Level 2 in the relevant arts discipline.

INTS 324/3.0  International Perspectives in the Creative Arts II  3S
A study of thematic and stylistic approaches to the representation of selected cultures and to the presentation and evocation of global issues in one or more of the fine, performing or media arts. Topics will vary each year. For detailed course description, see www.queensu.ca/isc.
NOTE  Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITE  Level 2 in the relevant arts discipline.

INTS 326/3.0  Labours of Film in the New Europe  3L
In this course, European film is our starting point for investigating the connections between work and art. Topics will include: urban space; (post- and para-); socialist societies; border crossings, especially gendered labour and cultural flows. The new Europe and its film shape each other; in what ways does this matter? Delimiting and unsettling national borders, they also shape and are shaped by the global; why should we care?
NOTE  Administered by the Department of Languages, Literatures and Cultures.
PREREQUISITE  Level 2 or permission of the Department.
**ITALN P10/3.0**  
**Beginning Italian I**  
3L  
Offers a basic level of Italian understanding, speaking, reading and writing for students with no knowledge of Italian whatsoever.  
ONE WAY EXCLUSION  
May not be taken with or after ITLN 112/3.0; ITLN 204/3.0; ITLN 205/3.0.

**ITALN 112/3.0**  
**Beginning Italian II**  
3L  
The continuation of ITLN P10/3.0. Also for students who have some knowledge of Italian but have not completed 4U Italian or equivalent. For these students an assessment interview with the instructor is required before registration. Contact the Department of Languages, Literatures and Cultures for details.  
PREREQUISITE  
A grade of C in ITLN P10/3.0.  
EXCLUSION  
No more than 6.0 units from ITLN P10/3.0; ITLN 101/6.0; ITLN 112/3.0.  
ONE WAY EXCLUSION  
May not be taken with or after ITLN 204/3.0; ITLN 205/3.0.

**ITALN 204/3.0**  
**Italiano intermedio**  
3L  
A review of the fundamentals of the Italian language, designed to reinforce and develop the student’s comprehension, speaking and writing ability.  
PREREQUISITE  
(A grade of C in ITLN 112/3.0) or ITLN 101/6.0.  
ONE WAY EXCLUSION  
May not be taken with or after ITLN 205/3.0.

**ITALN 205/3.0**  
**Italiano avanzato**  
3L  
Emphasizing the application of morphology and syntax, with written and oral practice. Readings will be discussed from lexical, syntactical and thematic points of view.  
PREREQUISITE  
A grade of C in ITLN 204/3.0.

**ITALN 210/3.0**  
**Italy and the Classical Tradition**  
3L  
The ancient Greek and Roman tradition in literature, art and the politics of Italy from the Middle Ages to the 18th century. Texts and works of art will be studied in the context of the historical, cultural and political settings of Italy. This course may not be applied toward an Italian concentration.  
NOTE  
Taught in English with ITLN 310/3.0. Written work and examinations in English. Readings in translation.  
PREREQUISITE  
Level 2 or above.  
EXCLUSION  
No more than 3.0 units from ITLN 210/3.0; ITLN 310/3.0.

**ITALN 215/3.0**  
**Dante**  
3S  
A study of Dante Alighieri’s life and poetry, especially the *Vita Nuova* and the *Divine Comedy*. This course may not be applied toward an Italian concentration.  
NOTE  
Taught in English together with ITLN 415/3.0. Written work and examinations are in English. Readings are in translation.  
PREREQUISITE  
Level 2 or above.  
EXCLUSION  
No more than 3.0 units from ITLN 215/3.0; ITLN 415/3.0.

**ITALN 226/3.0**  
**Literature and Cinema**  
3S  
Addresses the various issues relating to the film adaptation of a literary text. The reading of narrative texts, the viewing of films and critical readings are required.  
NOTE  
Taught in English together with ITLN 326/3.0. Written work and examinations in English. Readings in translation.  
PREREQUISITE  
Level 2 or above.  
EXCLUSION  
No more than 3.0 units from ITLN 226/3.0; ITLN 326/3.0.

**ITALN 232/3.0**  
**From the Romantics to D’Annunzio**  
3S  
The course will focus on the study of Italian Romanticism and its relation to English, German, Spanish and French Romanticism. The rise of Realism and Decadentism will also be discussed and examined.  
NOTE  
Taught in English together with ITLN 432/3.0. Students submit written assignments, tests and examinations in English.  
PREREQUISITE  
Level 2 or above.  
EXCLUSION  
No more than 3.0 units from ITLN 232/3.0; ITLN 432/2.0.
ITLN 233/3.0  
*Survey of Italian Literature I*  
3S  
A survey of Italian literature, through selected texts of representative authors, from the Middle Ages to the eighteenth century.  
NOTE Taught in English together with ITLN 331/3.0. Written assignments, tests, and examinations in English.  
PREREQUISITE Level 2 or above.  
EXCLUSIONS No more than 1 course from *ITLN 230/6.0; ITLN 233/3.0; ITLN 331/3.0.*

ITLN 234/3.0  
*Survey of Italian Literature II*  
3S  
A survey of Italian literature, through selected texts of representative authors, from the eighteenth century to present.  
NOTE Taught in English together with ITLN 332/3.0. Written assignments, tests, and examinations in English.  
PREREQUISITE Level 2 or above.  
EXCLUSIONS No more than 1 course from *ITLN 230/6.0; ITLN 234/3.0; ITLN 332/3.0.*

ITLN 235/3.0  
*Pirandello’s Theatre*  
3L  
An in-depth study of Pirandello’s most important dramatic works, together with analysis of his theoretical essays on theatre. Particular attention will be paid to the following plays: *Six Characters in Search of an Author; Each in his Own Way, Henry IV, The Feast of Our Lord of the Ships, The New Colony; Tonight We Improvise and The Mountian Giants.*  
NOTE Taught in English together with ITLN 357/3.0. Written work and examinations are in English. Readings in translation.  
EXCLUSION No more than 3.0 units from ITLN 257/3.0; ITLN 357/3.0.

ITLN 300/3.0  
*Sintassi e traduzione*  
3S  
Intensive practice in advanced English-Italian/Italian-English translation with a focus on lexical and syntactic matters as well as compositions to be written in Italian.  
PREREQUISITE ITLN 205/3.0.

ITLN 301/3.0  
*Traduzione e composizione*  
3S  
Intensive practice in advanced English-Italian/Italian-English translation with a focus on lexical and syntactic matters as well as compositions to be written in Italian.  
PREREQUISITE ITLN 300/3.0.

ITLN 308/3.0  
*From Fellini to Benigni*  
3L  
This course will examine social, historic and political realities of the twentieth century through the lens of the unique Italian humorist tradition of film making. The course will focus on films by F.Fellini, L.Comencini, E.Scola, G.Tornatore, G.Salvatores, N.Moretti, R.Benigni and other film makers.  
NOTE Taught in English together with ITLN 408/3.0. Written work and examinations are in English. Readings are in translation.  
EXCLUSION No more than 3.0 units from ITLN 308/3.0; ITLN 408/3.0.

ITLN 310/3.0  
*Italy and the Classical Tradition*  
3L  
The ancient Greek and Roman tradition in literature, art and the politics of Italy from the Middle Ages to the 18th century. Texts and works of art will be studied in the context of the historical, cultural and political settings of Italy.  
NOTE Taught in English with ITLN 210/3.0. Students concentrating in Italian submit written assignments, tests and exams in Italian. Normally students will read Italian texts in the original.  
PREREQUISITE ITLN 205/3.0.  
EXCLUSION No more than 3.0 units from ITLN 210/3.0; ITLN 310/3.0.

ITLN 326/3.0  
*Literature and Cinema*  
3S  
Addresses the various issues relating to the film adaptation of a literary text. The reading of narrative texts, the viewing of films and critical readings are required.  
NOTE Taught in English together with ITLN 226/3.0. Students concentrating in Italian submit written assignments, tests and examinations in Italian. Normally students will read Italian texts in the original.  
PREREQUISITE ITLN 205/3.0.  
EXCLUSION No more than 3.0 units from ITLN 226/3.0; ITLN 326/3.0.
ITLN 331/3.0  Survey of Italian Literature I  3S
A survey of Italian literature, through selected texts of representative authors, from the Middle Ages to the eighteenth century.
NOTE    Taught in English together with ITLN 233/3.0. Students submit written assignments, tests, and examinations in Italian.
PREREQUISITE    ITLN 205/3.0
EXCLUSIONS    No more than 1 course from ITLN 230/6.0; ITLN 233/3.0; ITLN 331/3.0.

ITLN 332/3.0  Survey of Italian Literature II  3S
A survey of Italian literature, through selected texts of representative authors, from the eighteenth century to the present.
NOTE    Taught in English together with ITLN 234/3.0. Students submit written assignments, tests, and examinations in Italian.
PREREQUISITE    ITLN 205/3.0.
EXCLUSIONS    No more than 1 course from ITLN 230/6.0; ITLN 234/3.0; ITLN 332/3.0.

ITLN 357/3.0  Pirandello’s Theatre  3S
An in-depth study of Pirandello’s most important plays, and an analysis of his theoretical essays on theatre. Particular attention will be paid to the following plays: Six Characters in Search of an Author; Each in his Own Way; Henry IV, The Feast of Our Lord of the Ships, Tonight We Improvise, The Mountain Giants.
NOTE    Taught in English together with ITLN 257/3.0. Written work and exams are in Italian. Readings in translation.
PREREQUISITE    ITLN 205/3.0.
EXCLUSION    No more than 3.0 units from ITLN 257/3.0; ITLN 357/3.0.

ITLN 408/3.0  From Fellini to Benigni  3L
This course will examine social, historic and political realities of the twentieth century through the lens of the unique Italian humorist tradition of film making. The course will focus on films by F.Fellini, L.Comencini, E.Scola, G.Tornatore, G.Salvatores, N.Moretti, R.Benigni and other film makers.
NOTE    Taught in English together with ITLN 308/3.0. Students concentrating in Italian submit written assignments, tests, and examination in Italian.
EXCLUSION    No more than 3.0 units from ITLN 308/3.0; ITLN 408/3.0.

ITLN 415/3.0  Dante  3S
A study of Dante Alighieri’s life and poetry, especially the Vita Nuova and the Divina Commedia. Taught in English together with ITLN 215/3.0. Students concentrating in Italian submit written assignments, tests and examinations in Italian. Normally they will read Italian texts in the original.
EXCLUSION    No more than 3.0 units from ITLN 215/3.0; ITLN 415/3.0.

ITLN 432/3.0  From the Romantics to D’Annunzio  3S
The course will focus on the study of Italian Romanticism and its relation to English, German, Spanish and French Romanticism. The rise of Realism and Decadentism will also be discussed and examined.
NOTE    Taught in English together with ITLN 332/3.0. Students concentrating in Italian submit written assignments, tests and examinations in Italian. Normally students will read Italian texts in the original.
PREREQUISITE    ITLN 205/3.0.
EXCLUSION    No more than 3.0 units from ITLN 332/3.0; ITLN 432/3.0.

ITLN 501/3.0  Letteratura italiana: Temi scelti  3S
Seminar course on topics in Italian literature. Course details to be announced on website.
PREREQUISITE    Permission of the Department of Languagues, Literatures and Cultures.

ITLN 502/3.0  Letteratura italiana: Studi indipendenti  3S
Reading courses in specialized themes of Italian literature to meet the needs of advanced students for whom a seminar course is not available. Course details to be announced on website.
PREREQUISITE    Permission of the Department of Languagues, Literatures and Cultures.
JAPN 100/6.0  Introductory Japanese I  3L;1T
For students without any previous knowledge of Japanese. Introduction to the basic structural patterns of the language and intensive training in listening, speaking, reading, and writing. Extensive use of audio-visual materials. Students are expected to study individually on a regular basis with the aid of an audio tape in addition to the four hours of classroom work per week.
NOTE Students will have their level of competence assessed by the Department of Languages, Literatures and Cultures in September.
NOTE Students with previous knowledge of the language or who have studied Japanese will not be permitted to enrol.
PREREQUISITE Level 1 or (Level 2 and a GPA of 1.90).

JAPN 200/6.0  Introductory Japanese II  3L;1T
Continued study of the structural patterns of the language, with intensive training in listening, speaking, reading, and writing. Extensive use of audio-visual materials. Students are expected to study individually on a regular basis with the aid of an audio tape in addition to the four hours of classroom work per week.
NOTE Students with previous study background must take a placement test during orientation week.
PREREQUISITE A grade of C in JAPN 100/6.0 or permission of the Department of Languages, Literatures and Cultures.

JAPN 301/3.0  Intermediate Japanese I  3L;1T
Intermediate study of the structural patterns of the language, with intensive training in listening, speaking, reading, and writing. Extensive use of audio-visual materials.
NOTE Students with previous study background must take a placement test during orientation week.
PREREQUISITE A grade of C in JAPN 200/6.0 or permission of the Department of Languages, Literatures and Cultures.
EXCLUSION No more than 6.0 units from JAPN 300/6.0; JAPN 301/3.0; JAPN 302/3.0.

JAPN 302/3.0  Intermediate Japanese II  3L;1T
Intermediate study of the structural patterns of the language, with intensive training in listening, speaking, reading, and writing. Extensive use of audio-visual materials.
NOTE Students with previous study background must take a placement test during orientation week.
PREREQUISITE A grade of C in JAPN 301/3.0 or permission of the Department of Languages, Literatures and Cultures.
EXCLUSION No more than 6.0 units from JAPN 300/6.0; JAPN 301/3.0; JAPN 302/3.0.
JWST 301/3.0  
Topics in Jewish Studies I
A topic of current interest in Jewish Studies not covered in other available courses. Seminars offered by regular and visiting faculty on topics related to their own research or interest. Consult the Jewish Studies website.

JWST 302/3.0  
Topics in Jewish Studies II
A topic of current interest in Jewish Studies not covered in other available courses. Seminars offered by regular and visiting faculty on topics related to their own research or interest. Consult the Jewish Studies website.

JWST 501/3.0  
Directed Reading in Jewish Studies I
Directed reading on topics in Jewish Studies not covered in other courses available to the student.

JWST 502/3.0  
Directed Reading in Jewish Studies II
Directed reading on topics in Jewish Studies not covered in other courses available to the student.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KNPE 125/3.0</td>
<td>Introduction to the Physiology of Human Movement</td>
<td>3L</td>
<td>This course provides an introduction to human physiology from the cellular to the systemic level with special emphasis on the systems that adapt to exercise stress. The following areas will be covered: the cell, nervous system, skeletal muscle system, respiratory system, cardiovascular system, neuroendocrine system, and renal system. PREREQUISITE Level 1 or above in a PHED, KINE or HLTH Plan. EXCLUSION No more than 1 course from IDIS 150/6.0; KNPE 125/3.0; KNPE 225/3.0; PHGY 210/6.0; PHGY 212/6.0; PHGY 214/6.0.</td>
</tr>
<tr>
<td>KNPE 153/3.0</td>
<td>Introductory Biomechanics</td>
<td>3L</td>
<td>This course will present the fundamentals of biomechanics which includes an understanding of joint structure and function, forces and moments, tools used to record motion and use of these tools for description of motion and skill evaluation. PREREQUISITE Level 1 or above in a PHED or KINE Plan. EQUIVALENCE PHED 153/3.0.</td>
</tr>
<tr>
<td>KNPE 167/3.0</td>
<td>Socio-Cultural Dimensions of Sport and Physical Activity</td>
<td>3L/S</td>
<td>An introduction to sociological thinking about sport and physical activity. Among the topics to be discussed are: an exploration of what constitutes sport and under what conditions; how social relations of class, race, gender, and sexuality shape sport experiences; the business of sport; and the relationship between the media and sport. PREREQUISITE Level 1 or above in a PHED or KINE Plan. EQUIVALENCE PHED 167/3.0.</td>
</tr>
<tr>
<td>KNPE 203/3.0</td>
<td>The Art and Science of Coaching</td>
<td>3L</td>
<td>An introduction, overview and synthesis of current coaching theory which provides the basis of sound, ethical and effective coaching practices. RECOMMENDATION KNPE 237/3.0 or PPHE 237/3.0. PREREQUISITE Level 2 or above in a PHED or KINE Plan and KNPE 265/3.0. EQUIVALENCE PHED 303/3.0; PPHE 203/3.0.</td>
</tr>
<tr>
<td>KNPE 225/3.0</td>
<td>Integrative Physiology of Human Movement</td>
<td>3L;1P</td>
<td>The emphasis will be placed on understanding the concept of homeostasis and the integrated control of cellular and organ responses involved in regulation to maintain homeostasis. Special emphasis will be placed on the systems that respond to exercise stress. PREREQUISITE Level 2 or above in a PHED or KINE Plan and KNPE 125/3.0. EXCLUSION No more than 6.0 units from IDIS 150/6.0; KNPE 125/3.0; KNPE 225/3.0; PHGY 210/6.0; PHGY 212/6.0; PHGY 214/6.0. EQUIVALENCE KINE 225/3.0.</td>
</tr>
<tr>
<td>KNPE 227/3.0</td>
<td>Exercise Physiology</td>
<td>3L</td>
<td>An introduction to the basic components of physiology as they apply to health, fitness and exercise physiology. PREREQUISITES Level 2 or above in a PHED or KINE Plan and KNPE 125/3.0 and KNPE 225/3.0. EQUIVALENCE PHED 155/3.0.</td>
</tr>
<tr>
<td>KNPE 237/3.0</td>
<td>Physical Activities for Children</td>
<td>3L</td>
<td>This course is an exploration of behavioural and biological research on physical activity and how it relates to the psychosocial, structural, and physiological development of children between birth and approximately age 13. PREREQUISITE Level 2 or above in a PHED or KINE Plan. EQUIVALENCE PHED 237/3.0; PPHE 237/3.0.</td>
</tr>
</tbody>
</table>
**KNPE 251/3.0  Introduction to Statistics**  2L;1T
An introduction to descriptive and inferential statistics for the behavioural sciences. Parametric and non-parametric tests will be described.

**PREREQUISITE**  Level 2 or above in a PHED, KINE or HLTH plan.
**EXCLUSION**  No more than 3.0 units from BIOL 243/3.0; CHEE 209/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0 (formerly PHED 251/3.0); NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 261/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0; COMM 162/3.0.
**EQUIVALENCY**  PHED 251/3.0.

**KNPE 253/3.0  Ergonomics and Human Factors**  3L
This course provides the necessary background to understand the capabilities and limitations of human performance in home, office and industrial settings. Topics include: evaluation methods; anthropometry and its impact on work; information input; physical work and tolerance limits; human-system interactive; cognitive and sensory factors; body rhythms and work schedules; and human errors.

**PREREQUISITES**  Level 2 or above in a PHED, KINE or HLTH Plan and PSYC 100/6.0 and \{(ANAT 101/3.0 and (KNPE 125/3.0 or IDIS 150/6.0) or (ANAT 315/3.0 and KNPE 153/3.0))\}.
**EQUIVALENCY**  KINE 253/3.0; PHED 253/3.0.
**EQUIVALENCY**  PHED 255/3.0.

**KNPE 255/3.0  Physical Activity, Fitness and Health**  3L/P
An introduction to the interrelationships between physical activity, fitness and health. Current techniques for the measurement of health related fitness components, evaluation of diet, weight loss principles, psychological aspects of fitness and suitable activities for fitness development. Concepts related to prescription of physical activity and exercise counselling are introduced.

**PREREQUISITE**  Level 2 or above in a PHED or KINE Plan and KNPE 125/3.0.
**COREQUISITE**  KNPE 227/3.0.
**EXCLUSION**  No more than 3.0 units from HLTH 325/3.0; KNPE 255/3.0.
**EQUIVALENCY**  PHED 255/3.0.

**KNPE 261/3.0  Motor Learning**  3L/S
Evaluation of human performance from perception to movement execution. Mechanisms underlying skill acquisition and the roles of practice and feedback on performance will be evaluated.

**PREREQUISITE**  Level 2 or above in a PHED or KINE Plan and PSYC 100/6.0.
**EQUIVALENCY**  PHED 261/3.0.

**KNPE 265/3.0  Psychology of Sport and Exercise**  2L;1S
This course will introduce both theoretical and applied/professional aspects of human social behaviour in sport and exercise settings.

**PREREQUISITE**  Level 2 or above in a PHED or KINE Plan.
**COREQUISITE**  PSYC 100/6.0.
**EQUIVALENCY**  PHED 165/3.0.

**KNPE 330/3.0  Athletic Therapy Field Placement**  3P
Under the tutelage of the Coordinator of Athletic Therapy Services, students will complete a field placement that involves assignment to a varsity team as a student trainer. Student trainers are responsible for onsite coverage of the team during competition and possibly during practices. The student trainers are also responsible for the taping needs of athletes on the team, and assisting with assessment and rehabilitation.

**NOTE**  Materials Fees: Estimated cost $35.
**NOTE**  Students must hold valid First Aid/CPR certification and proof of completion of Athletic Therapy experience (36 hours) in second year.
**PREREQUISITES**  Level 3 or above in a PHED Specialization or KINE Specialization Plan and ANAT 315/3.0 and a grade of B- in (KNPE 331/3.0 or PPHE 331/3.0).
KNPE 331/3.0  Care and Prevention of Athletic Injuries  2L;2P
The care and prevention of common athletic injuries with emphasis placed on the practical portion of taping and wrapping of athletic trauma.
NOTE Materials Fees: Estimated cost $30.
PREREQUISITES Level 3 or above in a PHED or KINE Plan and ANAT 315/3.0 and ANAT 316/3.0.
EQUIVALENCY PHED 331/3.0; PPHE 331/3.0.

KNPE 333/3.0  Physical Activity for Persons with Disabilities  3L
This course examines disability and physical activity across a range of settings from recreation to competitive sport. Topics to be covered will include: accessibility; disability sport; inclusive physical activity opportunities; and fitness and training for persons with disabilities.
PREREQUISITE Level 3 or above in a PHED or KINE Plan and KNPE 237/3.0 or PPHE 237/3.0.
EQUIVALENCY PHED 333/3.0; PPHE 333/3.0.

KNPE 335/3.0  Physical Activity for Seniors  3L
An examination of physiological, psychological and emotional changes occurring during the aging process. The role of physical activity to promote quality of life as we age is a key perspective.
PREREQUISITE Level 3 or above in a PHED, KINE or HLTH Plan.
EQUIVALENCY PHED 335/3.0; PPHE 335/3.0.

KNPE 343/3.0  Instructional Leadership for Health and Fitness  3L;2P
An advanced internship-based course that provides students with the practical knowledge and skills necessary for the development and administration of individual programs for the improvement of health and fitness. Application of course content will occur through a placement opportunity with the Fitness and Lifestyle Centre.
RECOMMENDATION KNPE 365/3.0 or KINE 365/3.0.
PREREQUISITES Level 3 or above in a PHED or KINE Plan and (KNPE 345/3.0 or PPHE 345/3.0) and KNPE 255/3.0.
EQUIVALENCY PHED 343/3.0; PPHE 343/3.0.

KNPE 345/3.0  The Science and Methodology of Sport Training Conditioning Programs  3L/1.5P
This course focuses on the development of sport conditioning programs from periodization concepts to specific training components and how the components can be integrated to create a comprehensive and balanced athlete training plan. Laboratory sessions will work on skill development applicable to conducting training and conditioning programs.
PREREQUISITES Level 3 or above in a PHED or KINE Plan and KNPE 125/3.0 and KNPE 227/3.0.
EQUIVALENCY PHED 345/3.0; PPHE 345/3.0.

KNPE 346/3.0  Strength and Conditioning Field Placement  3P
Under the tutelage of the Strength and Conditioning Coordinator, students will complete a field placement that involves a range of practical experiences in the area of strength and conditioning programs for elite athletes. Practical sessions will be rotated weekly in order to provide students with a variety of experiences in program delivery, training sessions, and testing.
NOTE Materials Fees: Estimated cost $50.
NOTE Students must hold valid First Aid/CPR certification and proof of completion of Athletic Therapy experience (36 hours) in second year.
PREREQUISITES ANAT 315/3.0 and a grade of B- in (KNPE 331/3.0 or PPHE 331/3.0) and Level 3 in a PHED -or KINE Plan.
KNPE 352/3.0  Research-Based Internship  1S;3P
An internship for students in Kinesiology and Physical Education working in the research labs and on research projects of
SKHS faculty members. Includes a seminar series covering research topics and methodologies in: Applied Exercise
Science, Epidemiology, Health Promotion, Psychology of Sport and Physical Activity, and Sociology of Sport and Health.
NOTE Students will apply for a research-based internship at the end of their second year. Recommended for students
who intend to complete KNPE 595/6.0.
PREREQUISITES KNPE 251/3.0 or NURS 323/3.0; Level 3 in a KINE or PHED Plan.
COREQUISITE HLTH 252/3.0
EXCLUSION No more than 3.0 units from HLTH 352/3.0 or KNPE 352/3.0.

KNPE 353/3.0  Biomechanics  3L;2P
This course is concerned with the quantitative analysis of human motion. Mechanical and biological factors
involved are analyzed to help understand sport or human movement skills. Students will have an opportunity to
conduct a quantitative analysis on a specific movement.
RECOMMENDATION PHED and KINE students should have 6.0 units at the 100-level in MATH or PHYS.
PREREQUISITE (A grade of B- in 6.0 units at the 100-level in MATH or PHYS) or KNPE 153/3.0.
EQUIVALENCY KINE 353/3.0; PHED 353/3.0.

KNPE 363/3.0  Psychology of Sport and Performance  3L/S
An integration of theory, research and applied work in the area of applied sport psychology. Analysis, discussion of
theoretical issues related to performance and practical application of mental skills such as arousal management,
attention control, decision making, goal setting, positive self-talk, and time management.
NOTE This course is offered in alternate years in rotation with KNPE 365/3.0 and in rotation with KNPE 465/3.0.
PREREQUISITE Level 3 or above in a PHED or KINE Plan and KNPE 265/3.0.
EQUIVALENCY KINE 363/3.0; PHED 363/3.0.

KNPE 365/3.0  Physical Activity and Health Behaviour Counselling  1L;2T
Study of strategies to enhance intrinsic motivation and self-regulation for physical activity and health behaviour
change in clinical settings. Students will learn and practice motivational interviewing skills for behaviour change in
intensive weekly tutorial sessions.
NOTE This course is offered in alternate years in rotation with KNPE 363/3.0 and in rotation with KNPE 463.
PREREQUISITES Level 3 or above in a PHED, KINE or HLTH Plan and PSYC 100/6.0 and (KNPE 265/3.0 or
[HLTH 200/3.0 and HLTH 315/3.0]).
EQUIVALENCY KINE 365/3.0; PHED 365/3.0.

KNPE 367/3.0  Fitness, the Body and Culture  3L/S
This course looks at the ways that notions of fitness are tied to historically specific ideas about the body. The course
focuses on ideas about race, class, gender, ability and sexuality while addressing the politics of fitness and exercise
and their relationship to social, economic, and cultural institutions.
PREREQUISITES KNPE 167/3.0, or (SOCY 226/3.0 and SOCY 227/3.0) or SOCY 221/6.0.
EQUIVALENCY KINE 367/3.0; PHED 367/3.0.

KNPE 371/3.0  Sport and Recreation Management  2L;1S
Organizational and administrative principles as they apply to sport and physical activity programs over a range of settings:
commercial, industrial, governmental and educational.
EQUIVALENCY PHED 371/3.0; PPHE 371/3.0.

KNPE 393/3.0  Special Topics in Kinesiology and Physical Education I  3L/S
Intensive coverage of topics that are current and/or of special interest in the area of health enhancement, disease
prevention, and human performance. Offered periodically by visiting professors or members of faculty. Students
should check with the School regarding availability of this course.
PREREQUISITE Level 3 or above in a PHED or KINE Plan.
EQUIVALENCY PHED 393/3.0.
KNPE 395/3.0  Special Topics in Kinesiology and Physical Education II  3L/S
Intensive coverage of topics that are current and/or of special interest in the area of health enhancement, disease prevention, and human performance. Offered periodically by visiting professors or members of faculty. Students should check with the School regarding availability of this course.
PREREQUISITE  Level 3 or above in a PHED or KINE Plan.
EQUIVALENCY  PHED 395/3.0.

KNPE 427/3.0  Exercise, Nutrition and Metabolism  3L;2P
The focus is on aspects of skeletal muscle energy metabolism related to exercise and nutrition, with a particular emphasis on the regulation of carbohydrate and fat metabolism and the mechanisms regulating their use as substrates for muscle during rest and exercise. The use of nutrition and exercise in humans to assess the impact of these perturbations on whole body metabolism are considered.
RECOMMENDATION  KNPE 225/3.0 or KINE 225/3.0.
PREREQUISITE  Level 4 in a PHED Specialization or KINE Specialization Plan and KNPE 125/3.0 and KNPE 227/3.0.
EXCLUSION  No more than 3.0 units from KNPE 427/3.0; PT 311/3.0).
EQUIVALENCY  KINE 427/3.0; PHED 427/3.0.

KNPE 429/3.0  Cardiovascular and Respiratory Control in Exercise  3L;3P
The focus is on aspects of cardiovascular and respiratory adjustments related to exercise, and effects of exercise training on these adjustments. Special topics include: Limitations to muscle aerobic metabolic adaptation, impact of select cardiovascular and respiratory diseases, and performance enhancement in endurance sports.
RECOMMENDATION  KNPE 225/3.0 or KINE 225/3.0.
PREREQUISITES  Level 4 in a PHED Specialization or KINE Specialization Plan and KNPE 125/3.0 and KNPE 227/3.0.
EQUIVALENCY  KINE 429/3.0; PHED 429/3.0.

KNPE 430/3.0  Athletic Therapy Internship  3P
Working with the Coordinator of Athletic Therapy (AT), and building on the practical skills and knowledge acquired in KNPE 330/3.0, students will complete an Athletic Therapy internship. AT interns will be responsible for serving as a mentor to student trainers and onsite trainers in the Athletic Therapy clinic and at varsity events. They will also serve as teaching assistants in the laboratory component of KNPE 331/3.0.
NOTE  Materials Fees: Estimated cost $35.
NOTE  Valid First Aid/CPR Certification required.
PREREQUISITES  A grade of B in KNPE 330/3.0 and Level 4 in a PHED Specialization or KINE Specialization Plan or permission of the instructor.

KNPE 446/3.0  Strength and Conditioning Internship  3P
Building on the skills and knowledge acquired in KNPE 346/3.0, students will complete a Strength and Conditioning (SC) internship with a varsity team. SC interns will be responsible for the design and implementation of training programs, functional screening, and athlete injury management. They will also assist with the Complete Athlete program and contribute to the laboratory component of KNPE 345/3.0 as TAs.
NOTE  Materials Fees: Estimated cost $50.
NOTE  Valid First Aid/CPR Certification required.
PREREQUISITES  A grade of B in KNPE 346/3.0 and Level 4 in a PHED Specialization or KINE Specialization Plan or permission of the instructor.

KNPE 450/3.0  Ergonomics  3L;1.5P
This is an interdisciplinary lecture/seminar course designed to provide a comprehensive overview of ergonomics emphasizing applications to product design and prevention of musculoskeletal injuries. The focus includes anthropometry, workplace design, and biomechanical and other human factors. Ergonomic assessment methodologies will be used to assess design features and possible musculoskeletal problems.
PREREQUISITES  [ANAT 101/3.0 and (KNPE 353/3.0 or KINE 353/3.0) or 6.0 units in PHYS at the 100-level].
EXCLUSION  No more than 3.0 units from KNPE 450/3.0; MECH 495/3.0; PT 419/3.0; RHBS 428/3.0.
EQUIVALENCY  KINE 450/3.0; PHED 450/3.0.

KNPE 454/3.0  Applications in Biomechanics  3L;1T
This will be an advanced course focusing on the application of biomechanics in sport, clinical and workplace environments. The material to be examined will include standard assessment protocols, descriptions of common injuries or disabilities, and rehabilitative strategies.

PREREQUISITE  Level 4 in a PHED Specialization or KINE Specialization Plan and KNPE 353/3.0 or KINE 353/3.0.

EQUIVALENCY  KINE 454/3.0; PHED 454/3.0.

KNPE 456/3.0  Survey of Research and Literature in Kinesiology and Physical Education
Independent study involving a critical review of the literature on an approved topic of specialization in health enhancement, disease prevention and human performance. Students must arrange for a faculty adviser approved by the School of Kinesiology and Health Studies.

PREREQUISITES  Level 4 in a PHED Specialization or KINE Specialization Plan; permission of the supervisor and the Undergraduate Coordinator.

EQUIVALENCY  PHED 456/3.0.

KNPE 459/3.0  Clinical Exercise Physiology  3L;2P/S
An in-depth coverage of principles of health screening, exercise testing and exercise prescription for healthy adults and individuals with metabolic and cardiopulmonary diseases.

RECOMMENDATION  KNPE 225/3.0 or KINE 225/3.0.

PREREQUISITES  Level 4 and (KNPE 125/3.0 and KNPE 227/3.0) or a grade of B- in (PHGY 210/6.0 or PHGY 212/6.0 or PHGY 214/6.0).

EQUIVALENCY  KINE 459/3.0; PHED 459/3.0.

KNPE 463/6.0  Community-Based Physical Activity Promotion  2S alt wks;1P
Program planning and evaluation for the promotion of physical activity in the community, workplace, school, and health care settings. Using a combination of lecture, group discussions, and a community-based placement, students will acquire the skills and understand the philosophies used in promoting physical activity involvement in the community.

RECOMMENDATION  HLTH 315/3.0.

PREREQUISITES  Level 4 in a PHED Specialization or KINE Specialization Plan and KNPE 265/3.0 and a GPA of 2.90 in all KNPE courses.

EQUIVALENCY  KINE 463/3.0; PHED 463/3.0.

KNPE 465/3.0  Psychology of Sport Expertise  3L/S
An exploration of the theoretical and empirical work in the acquisition of expertise in sport. Specific discussion of the developmental aspects and learning conditions that allow individuals to reach high levels of performance in sport will be included.

NOTE  This course is offered in alternate years in rotation with KNPE 363/3.0 and in rotation with KNPE 463/3.0.

RECOMMENDATION  KNPE 237/3.0 or PPHE 237/3.0.

PREREQUISITES  Level 4 in a PHED Specialization or KINE Specialization Plan and a grade of B in KNPE 363/3.0 or KINE 363/3.0 or KNPE 365/3.0 or KINE 365/3.0.

EQUIVALENCY  KINE 465/3.0; PHED 465/3.0.

KNPE 469/3.0  The Olympic Games  3L/S
This course provides students with a socio-cultural analysis of the Olympic Games through a critical examination of key aspects of the Games’ history, their organizational structure, women’s relationship to the Games, performance enhancing substances, and the work world of high performance athletes.

PREREQUISITE  Level 4 in a PHED Specialization or KINE Specialization Plan.
**KNPE 473/3.0  Sport and Culture**  
3S  
This course draws on critical theories to look at sport in Western cultures. It examines sport’s contribution to systems of gender, race, class, sexuality and ability. Topics include sport’s relationship to nationalism, media, commodification, globalization, and the environment.  
PREREQUISITE A grade of B- in KNPE 367/3.0 or KINE 367/3.0, or (Level 4 in a PHED or KINE Plan or SOCY Major Plan) or permission of the School of Kinesiology and Health Studies).  
EQUIVALENCY KINE 473/3.0; PHED 473/3.0.  

**KNPE 491/3.0  Special Project in Kinesiology and Physical Education**  
This is an independent project in an area of specialization in health enhancement, disease prevention and human performance. Students must arrange for a faculty advisor approved by the School of Kinesiology and Health Studies to oversee their project.  
PREREQUISITES Level 4 in a PHED Specialization or KINE Specialization Plan and permission of the supervisor and the Undergraduate Coordinator.  
EQUIVALENCY PHED 491/3.0.  

**KNPE 493/3.0  Special Topics in Kinesiology and Physical Education I**  
3L/S  
Intensive coverage of topics which are of current and/or of special interest in the area of health enhancement, disease prevention and human performance. Offered periodically by visiting professors or members of faculty. Students should check with the School regarding availability of this course.  
PREREQUISITE Level 4 in a PHED Specialization or KINE Specialization Plan.  
EQUIVALENCY PHED 493/3.0.  

**KNPE 495/3.0  Special Topics in Kinesiology and Physical Education II**  
3L/S  
Intensive coverage of topics which are of current and/or of special interest in the area of health enhancement, disease prevention and human performance. Offered periodically by visiting professors or members of faculty. Students should check with the School regarding availability of this course.  
PREREQUISITE Level 4 in a PHED Specialization or KINE Specialization Plan.  
EQUIVALENCY PHED 495/3.0.  

**KNPE 595/6.0  Honours Thesis in Kinesiology and Physical Education**  
An independent study involving a research proposal and project on an approved topic in the area of health enhancement, disease prevention, and human performance. The research proposal will be completed in the Fall Term and research project in the Winter Term. Students must arrange for a full-time faculty advisor in the School of Kinesiology and Health Studies.  
RECOMMENDATION HLTH 252/3.0.  
PREREQUISITES Level 4 in a PHED Specialization or KINE Specialization Plan with a GPA of 3.50; permission of the supervisor and Undergraduate Coordinator in the School of Kinesiology and Health Studies.  
EQUIVALENCY PHED 595/3.0
LANG – World Language Studies

LANG P10/3.0 Language Acquisition - Beginning Level I
For students studying abroad who wish to learn a modern language other than English and who have no previous knowledge of that language. A basic level of understanding, speaking, reading and writing in the language. An introduction to elements of culture of the countries in which the language is spoken.
NOTE For students on an approved exchange or international direct enrolment at an accredited institution.

LANG P11/3.0 Language Acquisition - Beginning Level II
For students studying abroad who wish to learn a modern language other than English and who have no previous knowledge of that language. A basic level of understanding, speaking, reading and writing in the language. An introduction to elements of culture of the countries in which the language is spoken.
NOTE For students on an approved exchange or international direct enrolment at an accredited institution.

LANG 120/3.0 Language Acquisition - Advanced Level I
For students studying abroad who wish to learn a modern language other than English and who have acquired a basic knowledge of that language. An increased emphasis on the study of the grammatical structures of the language and on the acquisition of vocabulary. Practice in speaking, reading and writing. Continued study of the culture including history, customs, and literature of the country.
NOTE For students on an approved exchange or international direct enrolment at an accredited institution.
NOTE A language placement test will be administered by the host institution.
PREREQUISITE LANG P10/3.0 and LANG P11/3.0 or permission of the Department.

LANG 121/3.0 Language Acquisition - Advanced Level II
For students studying abroad who wish to learn a modern language other than English and who have acquired a basic knowledge of that language. An increased emphasis on the study of the grammatical structures of the language and on the acquisition of vocabulary. Practice in speaking, reading and writing. Continued study of the culture including history, customs, and literature of the country.
NOTE For students on an approved exchange or international direct enrolment at an accredited institution.
NOTE A language placement test will be administered by the host institution.
PREREQUISITE LANG P10/3.0 and LANG P11/3.0 or permission of the Department.
<table>
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<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>LATN 110/6.0</td>
<td>Introductory Latin</td>
<td>3L/S</td>
<td>Fundamentals of grammar, syntax and etymology for students with no or little knowledge of Latin; provides sufficient background to read Latin prose and poetry.</td>
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<tr>
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<td>NOTE</td>
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<td>Normally not open to students with 4U Latin.</td>
</tr>
<tr>
<td>LATN 209/6.0</td>
<td>Intermediate Latin</td>
<td>3L/S</td>
<td>Review of grammar followed by a study of representative works of Ovid and other authors. In addition to developing facility in translation, study of literary content and background of authors.</td>
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<td></td>
<td>NOTE</td>
<td></td>
<td>A student with 4U Latin may alternatively use this as a prerequisite and should contact the Department for permission to register in the course.</td>
</tr>
<tr>
<td>LATN 310/6.0</td>
<td>Epic Poetry and Oratory</td>
<td>3L/S</td>
<td>Selections from Vergil’s Georgics and Aeneid with the rest in translation; rhetorical works by Cicero.</td>
</tr>
<tr>
<td>LATN 311/6.0</td>
<td>Lyric Poetry and History</td>
<td>3L/S</td>
<td>Lyric poems by Catullus, the Odes of Horace; selections from Livy and Tacitus.</td>
</tr>
<tr>
<td>LATN 327/6.0</td>
<td>Medieval Latin</td>
<td>3L</td>
<td>Representative works of prose and poetry to illustrate various aspects of the history and culture of the period.</td>
</tr>
<tr>
<td>LATN 410/6.0</td>
<td>Latin Language and Literature</td>
<td></td>
<td>Detailed study of author(s) or genre. See Department for information.</td>
</tr>
<tr>
<td>LATN 411/6.0</td>
<td>Latin Language and Literature</td>
<td></td>
<td>Detailed study of author(s) or genre. See Department for information.</td>
</tr>
<tr>
<td>LATN 431/6.0</td>
<td>Research Course</td>
<td></td>
<td>Detailed study of certain aspects of Latin Literature and Roman history through directed readings and essay assignments.</td>
</tr>
<tr>
<td>LATN 591/0.0</td>
<td>General Examination</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
LING 100/6.0  Introduction to Linguistics 3L
This course provides an introduction to the linguistic study of language. Topics covered include phonetics, phonology, morphology, and syntax. The course focuses on universal characteristics of language and draws on examples from a variety of languages.

LING 202/3.0  Canadian English 3L
This course investigates the distinctive characteristics of Canadian English as it is spoken and written today. Topics include historical development, regional dialects, and current changes. Students will have access to the extensive bibliographic and computer corpus resources of the Strathy Language Unit.

LING 205/3.0  Language and Power 3L
This course examines how language reflects and creates power relations in society. Students will learn fundamentals in the linguistic study of language usage and style, and examine language and power in areas such as language socialization, language and age, language and gender, language and education, and language and culture.

LING 310/3.0  Phonetics 3L
This course provides a foundation in the study of speech sounds. The focus is on articulatory phonetics, how to classify and transcribe different sounds of speech according to their articulatory features. The course also offers an introduction to acoustic phonetics and feature geometry theory.
PREREQUISITE  LING 100/6.0 or permission of the Department of Languages, Literatures and Cultures.

LING 320/3.0  Phonology 3L
Principles and methods of modern generative phonology. Examination of the formal properties of the sound systems of languages. Current theoretical controversies as well as particular synchronic and diachronic problems in a variety of languages.
PREREQUISITE  LING 100/6.0 or permission of the Department of Languages, Literatures and Cultures.

LING 330/3.0  Morphology 3L
This course provides a foundation in principles of morphological analysis. Topics covered include inflectional and derivational morphology as well as the morphology-syntax and morphology-phonology interfaces. Emphasis is placed on practical discovery method, and formal analysis and explanation.
PREREQUISITE  LING 100/6.0 or permission of the Department of Languages, Literatures and Cultures.

LING 340/3.0  Syntax 3L
This course provides a foundation in syntactic analysis and explanation. The course focuses on the relation between structure and meaning, and assumes the framework of Universal Grammar Theory. Topics covered include thematic roles, case, anaphora, NP movement and WH movement.
PREREQUISITE  LING 100/6.0 or permission of the Department of Languages, Literatures and Cultures.

LING 350/3.0  Introduction to Historical Linguistics 3L
This course introduces the linguistic study of historical language change. The focus is on principles and method in the study of phonological, morphological and syntactic change. Case studies will be drawn from a cross-section of languages, including but not limited to members of the Indo-European language family.
PREREQUISITE  LING 320/3.0 or permission of the Department of Languages, Literatures and Cultures.
EQUIVALENCY  LING 405/3.0.

LING 360/3.0  Comparative Morpho-Syntax 3L
This course examines morpho-syntactic variation across languages. Topics covered include argument structure, derivation versus compounding, case, anaphora, determiners, clause typing and related phenomena. The course assumes the framework of Universal Grammar theory with a focus on how comparative studies in morpho-syntax inform linguistic analysis and theory.
PREREQUISITES  LING 330/3.0 and LING 340/3.0 or permission of the Department of Languages, Literatures and Cultures.
LING 415/3.0 Semantics
3L/S
The aim of this course is to provide students with an understanding of the fundamental concepts and tools of analysis in semantics. Students will learn to recognize and identify different features of word meaning and a variety of semantic relations between words and sentences. The characteristics of logical relations and truth-functional semantics and the role these play in the interpretation of words and sentences will be discussed.
PREREQUISITE 6.0 units at the 300 level in LING or (LING 100/6.0 and level 3 in the COGS Specialization Plan), or permission of the Department of Languages, Literatures and Cultures.

LING 435/3.0 Topics in Morpho-Syntax
3L/S
Course content will vary from year to year and will explore a special theme in the interface between morphology and syntax. The course is comparative in perspective, drawing on evidence from different languages. The format is largely discussion-oriented and includes a substantial component of student presentations. Readings are selected from the current research literature (journal articles, working papers, unpublished manuscripts and dissertations).
PREREQUISITES LING 330/3.0 and LING 340/3.0.

LING 475/9.0 Field Methods in Linguistics
3S/P;1.5L
This course provides instruction in method and procedure in linguistic fieldwork. The course investigates the syntax, morphology and phonology of a language unfamiliar to the participants. The instruction is structured around weekly fieldwork sessions dedicated to data collection working with a native speaker of the language, and weekly workshops devoted to analysis. The course contains an intensive independent study component.
PREREQUISITE 6.0 units at the 300 level in LING, or permission of the Department of Languages, Literatures and Cultures.
EXCLUSION No more than 1 course from LING 425/3.0; LING 475/9.0.

LING 501/3.0 Directed Readings in Linguistics
Upon agreement with a qualified instructor, this course may be taken by an upper-year student in Linguistics to explore a specific area or methodology. Regular meetings, directed readings.
PREREQUISITES (6.0 units at the 300 level or above in LING) and (a GPA of 3.50) and permission of the Department of Languages, Literatures and Cultures.

LING 505/9.0 Honours Thesis in Linguistics
Upon agreement with a qualified instructor, students with fourth year standing in Linguistics may take this course to develop and demonstrate research skills in Linguistics. Working under supervision, students will choose a specific topic in a particular language, prepare a research proposal which involves the collection and analysis of data, carry out the research, and write a thesis based on the results. Fall and Winter Terms.
PREREQUISITES Level 4 in a LING Plan and (12.0 units at the 300 level or above in LING) and (a GPA of 3.50) and permission of the Department of Languages, Literatures and Cultures.
LISC 390/3.0  Integrated Life Sciences Laboratory I  3P
An intermediate laboratory course on the Physiology and Pharmacology of Neuroscience and Gastrointestinal function. Students develop skills to acquire and evaluate data and methods. Critical thinking skills are used for the development of arguments, assumptions, and information required to evaluate concepts and hypotheses.
NOTE Material Fee: estimated cost $40.
NOTE Priority will be given to students registered in a LISC Specialization Plan.
PREREQUISITE PHGY 214/6.0.
COREQUISITE PHAR 340/3.0.

LISC 391/3.0  Integrated Life Sciences Laboratory II  3P
An intermediate laboratory course on the Physiology and Pharmacology of Cardiorespiratory Sciences and Neuroscience. Students develop skills to acquire and evaluate data and methods. Critical thinking skills are used for the development of arguments, assumptions, and information required to evaluate concepts and hypotheses.
NOTE Material Fee: estimated cost $40.
NOTE Priority will be given to students registered in a LISC Specialization Plan.
PREREQUISITES (PHGY 214/6.0 and PHAR 340/3.0).

LISC 414/3.0  Progress in Neuroanatomy and Neuropharmacology  3L
A contemporary and comprehensive assessment of the neurochemical anatomy and neuropharmacology of the mammalian and human nervous systems as they relate to development, function and disease. Topics will include dynamics of neurotransmitter interactions, neuronal drug receptor interactions and second messengers, neurotoxicity associated transmitters and neural growth factors.
NOTE BMCO students should contact the Department regarding prerequisites.
PREREQUISITES A grade of B- in PHAR 340/3.0 and (Level 4 and registration in the LISC Major or Specialization Plan) and (a GPA of 2.5) or permission of the course coordinator.

LISC 422/3.0  Cellular and Molecular Neuroscience  1L;2S
An in-depth study of the biophysical properties of neurons and diseases that affect the function of neurons and glia. Topics will include cable properties of dendrites, voltage- and ligand-dependent channels, and molecular mechanisms responsible for neuronal death and regeneration. The course will be based on lectures and student seminars of selected readings.
NOTE BMCO students should contact the Department regarding prerequisites.
PREREQUISITE (A grade of B in NSCI 322/3.0 or LISC 322/3.0 or NSCI 323/3.0 or NSCI 324/3.0) and (Level 4 and registration in the LISC Major or Specialization Plan) and (a GPA of 2.5) and permission of the course coordinator.

LISC 426/3.0  Current Concepts in Sensorimotor Neuroscience  3S
A multi-disciplinary course exploring advanced concepts of sensorimotor integration from a systems neuroscience perspective. Topics include the neural basis of perception, action selection, reinforcement learning, and motor control. Students will learn to critically evaluate scientific literature and present these concepts to classmates.
PREREQUISITES (NSCI 322/3.0 or LISC 322/3.0 or NSCI 323/3.0 or NSCI 324/3.0 or NSCI 325/3.0) and (Level 4 and registration in the LISC Major or Specialization Plan) and (a GPA of 2.5) and permission of the course coordinator.

LISC 454/3.0  Cardiovascular Sciences  2L;1S/P
A study of the physiology, pharmacology and anatomy of the cardiovascular system. Topics include integrative mechanisms and pharmacotherapy involved in short-term and long-term control of the circulation in health and disease.
NOTE This course involves a group research project.
PREREQUISITES (ANAT 215/3.0 and ANAT 216/3.0) and (PHGY 212/6.0 or PHGY 214/6.0) and PHAR 340/3.0 and (6.0 units from BCHM 310/6.0; BCHM 315/3.0; BCHM 316/3.0) and (Level 4 and registration in the LISC Major or Specialization Plan) and (a GPA of 2.5) and permission of the course coordinator.
**LISC 488/0.0 Introduction to Animal Care**
This WEB CT course is offered each semester and is obligatory for all students undertaking teaching and/or research involving the use of vertebrate animals. The course covers ethical and legal obligations related to the use of animals. Students take this course only once. Students are instructed to register through Life Sciences Office for this WEB CT course.

**NOTE** Students are required to complete LISC 488/0.0 within 6 weeks of initiating laboratory work.

**PREREQUISITE** Level 4.

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**LISC 499/9.0 Research Project in Life Sciences 10P;2T**
An examination of the development and present state of knowledge in selected areas in life sciences and related areas. Research projects involve experimental design, data collection and analysis, written report, and oral presentation. Students will be required to attend seminars and tutorials on topics related to research. Limited enrolment.

**NOTE** Students whose research requires the care and/or handling of animals must also register in LISC 488/0.0.

**PREREQUISITES** Level 4 in the LISC Specialization Plan and (a GPA of 2.5) and permission of the Associate Dean of Life Sciences and Biochemistry.

**EXCLUSION** No more than 9.0 units from ANAT 499/9.0; CANC 499/9.0; EPID 499/9.0; LISC 499/9.0; MICR 455/6.0; MICR 499/9.0; NSCI 499/9.0; PATH 499/9.0; PHAR 499/9.0; PHGY 499/9.0.
**MATH P06/3.0**  
**Introduction to Calculus**  
3L  
Corresponds to 4U AFIC. Functions and their graphs, limits, derivatives.  

**NOTE**  
This course may not be included in any MATH or STAT plan.  

**RECOMMENDATION**  
Ontario Grade 11 Mathematics or equivalent.  

**ONE-WAY EXCLUSION**  
May not be taken with or after: MATH 120/6.0; MATH 121/6.0; MATH 122/6.0; MATH 123/3.0; MATH 124/3.0; MATH 126/6.0.

**MATH P10/3.0**  
**Fundamental Concepts in Elementary Mathematics for Teachers**  
3L;1P  
A course of interest to prospective teachers. Elementary school mathematics is considered from an enriched point of view. Theoretical and pedagogical questions will be raised throughout the course, and students will be required to teach a one-hour enrichment class, once a week for 10 weeks, to grade 7 or 8 students in a local elementary school.  

**NOTE**  
Students may incur transportation costs. These will vary, but are expected to be no more than $50. Students must obtain a criminal record check at their local police prior to the course. A fee will be charged.  

**NOTE**  
Does not prepare student for other courses in mathematics or statistics. This course may not be included in a MATH or STAT plan.  

**PREREQUISITE**  
Level 2.

**MATH P13/3.0**  
**Elementary Concepts in Discrete Mathematics**  
3L  
Topics in mathematics, emphasizing patterns, problem solving, applications. Connections between contemporary mathematics and society. Emphasis on number systems, arithmetic, combinatorics, graph theory. Of interest to prospective teachers.  

**NOTE**  
Does not prepare student for other courses in mathematics or statistics. This course may not be included in any MATH or STAT plan.  

**RECOMMENDATION**  
Ontario Grade 10 Mathematics.  

**ONE-WAY EXCLUSION**  
May not be taken with or after: 12.0 units in MATH; STAT at the 100-level and above.

**MATH P14/3.0**  
**Elementary Concepts in Continuous Mathematics**  
3L  
Topics in mathematics, emphasizing patterns, problem solving, applications. Connections between contemporary mathematics and society. Emphasis on geometry, mathematical models of growth and change. Of interest to prospective teachers.  

**NOTE**  
Does not prepare student for other courses in mathematics or statistics. May not be used towards a MATH or STAT Plan.  

**RECOMMENDATION**  
Ontario Grade 10 Mathematics.  

**ONE-WAY EXCLUSION**  
May not be taken with or after: 12.0 units in MATH; STAT at the 100 level and above.

**MATH 110/6.0**  
**Linear Algebra**  
3L;1T  
For students intending a medial or major concentration in Mathematics or Statistics. Provides a thorough introduction to linear algebra up to and including eigenvalues and eigenvectors.  

**RECOMMENDATION**  
At least one 4U mathematics course  

**EXCLUSION**  
No more than 1 course from MATH 110/6.0; MATH 111/6.0; MATH 112/3.0.

**MATH 111/6.0**  
**Linear Algebra**  
3L;1T  
An introduction to matrices and linear algebra. Emphasis on applications to biological and economic systems and to computer applications. Topics covered will include systems of equations, eigenvalues, recursions, orthogonality, regression analysis, and geometric transformations.  

**RECOMMENDATION**  
At least one 4U mathematics course.  

**EXCLUSION**  
No more than 1 course from MATH 110/6.0; MATH 111/6.0; MATH 112/3.0.

**MATH 112/3.0**  
**Introduction to Linear Algebra**  
3L  
A brief introduction to matrix algebra, linear algebra, and applications. Topics include systems of linear equations, matrix algebra, determinants, the vector spaces R^n and their subspaces, bases, co-ordinates, orthogonalization, linear transformations, eigenvectors, diagonalization of symmetric matrices, quadratic forms.  

**RECOMMENDATION**  
At least one 4U mathematics course.  

**EXCLUSION**  
No more than 1 course from MATH 110/6.0; MATH 111/6.0; MATH 112/3.0.
MATH 120/6.0  Differential and Integral Calculus  3L;1T
The basic concepts in calculus - limit, continuity, the fundamental theorem - as well as its development as a tool are studied.
NOTE For students intending to pursue a MATH or STAT plan. MATH 121/6.0 and MATH 126/6.0 cover approximately the same topics in calculus with different emphases.
RECOMMENDATION MHF4U and MCV4U or 4U AFIC, or permission of the Department.
EXCLUSION No more than 6.0 units from MATH 120/6.0; MATH 121/6.0; MATH 122/6.0; MATH 123/3.0; MATH 124/3.0; MATH 126/6.0

MATH 121/6.0  Differential and Integral Calculus  3L;1T
Differentiation and integration of the elementary functions, with applications to physical and social sciences; Taylor polynomials; multivariable differential calculus.
NOTE Intended for students planning to pursue subjects other than Biochemistry, Biology, Life Sciences, Mathematics or Statistics.
NOTE Also offered at the International Study Centre, Herstmonceux.
RECOMMENDATION MHF4U and MCV4U or equivalent, or 4U AFIC, or MATH P06/3.0, or permission of the Department.
EXCLUSION No more than 6.0 units from MATH 120/6.0; MATH 121/6.0; MATH 122/6.0; MATH 123/3.0; MATH 124/3.0; MATH 126/6.0.

MATH 122/6.0  Calculus for Students in Biochemistry, Biology and Life Sciences  3L;1T
This course covers differentiation and integration, Taylor polynomials, multivariable differential calculus, and applications of probability, statistics, and dynamical systems. Material will be presented in the context of biological examples from ecology, behaviour, physiology, evolutionary biology, and other areas of modern biology.
NOTE Primarily intended for students in Biology, Biochemistry and Life Sciences.
RECOMMENDATION MHF4U and MCV4U or equivalent, or 4U AFIC, or permission of the Department.
COREQUISITE BIOL 102/3.0.
EXCLUSION No more than 6.0 units from MATH 120/6.0; MATH 121/6.0; MATH 122/6.0; MATH 123/3.0; MATH 124/3.0; MATH 126/6.0.

MATH 123/3.0  Differential and Integral Calculus I  3L;1T
Differentiation and integration of elementary functions, with applications to physical and social sciences. Topics include limits, related rates, Taylor polynomials, and introductory techniques and applications of integration.
NOTE Not intended for students pursuing a MATH or STAT plan.
PREREQUISITE Permission of the Department.
EXCLUSION No more than 6.0 units from MATH 120/6.0; MATH 121/6.0; MATH 122/6.0; MATH 123/3.0; MATH 124/3.0; MATH 126/6.0.

MATH 124/3.0  Differential and Integral Calculus II  3L;1T
Numerical integration; differential equations; multivariable differential calculus; optimization. NOTE Intended for students who have credit for a one-term calculus course covering the topics in the first term of MATH 121/6.0.
PREREQUISITE MATH 123/3.0 or permission of the Department.
EXCLUSION No more than 6.0 units from MATH 120/6.0; MATH 121/6.0; MATH 122/6.0; MATH 123/3.0; MATH 124/3.0; MATH 126/6.0.

MATH 126/6.0  Differential and Integral Calculus  3L
Differentiation and integration of the elementary functions, with applications to physical and social sciences; Taylor polynomials; multivariable differential calculus.
NOTE Primarily intended for students in the BAH program. Students in the BSCH, BCMFH and BCOM programs should not enrol in this course.
EXCLUSION No more than 6.0 units from MATH 120/6.0; MATH 121/6.0; MATH 122/6.0; MATH 123/3.0; MATH 124/3.0; MATH 126/6.0.
MATH 210/3.0  Rings and Fields  3L
Integers, polynomials, modular arithmetic, rings, ideals, homomorphisms, quotient rings, division algorithm, greatest common divisors, Euclidean domains, unique factorization, fields, finite fields.
NOTE Students with MATH 112/3.0 may ask for admission with the permissions of the Department.
PREREQUISITE MATH 110/6.0 or MATH 111/6.0 or (MATH 112/3.0 with permission of the Department).
EXCLUSION No more than 1 course from MATH 210/3.0; MATH 211/6.0; MATH 213/3.0; MATH 217/3.0.

MATH 211/6.0  Algebraic Methods  3L
Algebraic techniques used in applied mathematics, statistics, computer science and other areas. Polynomials, complex numbers; least squares approximations; discrete linear systems; eigenvalue estimation; non-negative matrices - Markov chains; permutation groups; linear Diophantine equations; introduction to algebraic structures.
PREREQUISITES (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or MATH 124/3.0 or MATH 126/6.0) and (MATH 110/6.0 or MATH 111/6.0).
EXCLUSION No more than 1 course from MATH 210/3.0; MATH 211/6.0; MATH 213/3.0; MATH 217/3.0.
EXCLUSION No more than 1 course from MATH 211/6.0; MATH 213/3.0; MATH 217/3.0.
EXCLUSION No more than 1 course from MATH 211/6.0; MATH 312/3.0.

MATH 213/3.0  Methods of Modern Algebra  3L
Algebraic techniques used in mathematics, computer science, and other areas. Factorization, divisibility and congruence for integers and polynomials. Complex numbers. Computational and algorithmic considerations will be stressed, with reference as needed to structures such as rings and fields.
PREREQUISITE MATH 110/6.0 or MATH 111/6.0 or MATH 112/3.0.
EXCLUSION No more than 1 course from MATH 210/3.0; MATH 211/6.0; MATH 213/3.0; MATH 217/3.0.
EXCLUSION No more than 1 course from MATH 211/6.0; MATH 213/3.0; MATH 217/3.0.

MATH 221/3.0  Vector Calculus  3L;1T
RECOMMENDATION Some linear algebra.
PREREQUISITES MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or MATH 124/3.0 or MATH 126/6.0.
EXCLUSION No more than 3.0 units from MATH 221/3.0; MATH 227/3.0; MATH 280/3.0.

MATH 228/3.0  Complex Analysis  3L;1T
Complex arithmetic, complex plane. Differentiation, analytic functions. Elementary functions. Contour integration, Cauchy’s Theorem, and Integral Formula. Taylor and Laurent series, residues with applications to evaluation of integrals.
PREREQUISITES (MATH 110/6.0 or MATH 111/6.0 or MATH 112/3.0) and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or MATH 124/3.0).
EXCLUSION No more than 3.0 units from MATH 228/3.0; MATH 326/3.0.

MATH 231/3.0  Differential Equations  3L;1T
An introduction to ordinary differential equations and their applications. Intended for students concentrating in Mathematics or Statistics.
PREREQUISITES (MATH 110/6.0 or MATH 111/6.0) and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or MATH 124/3.0).
EXCLUSION No more than 1 course from MATH 225/3.0; MATH 226/3.0; MATH 231/3.0; MATH 232/3.0; MATH 235/3.0; MATH 237/3.0.
MATH 232/3.0  Differential Equations  3L
Introduction to ordinary differential equations and their applications to the physical and social sciences. Topics may include: numerical solutions, power series and series solutions, Laplace transforms.
NOTE Some knowledge of linear algebra is assumed
PREREQUISITE  MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or MATH 124/3.0 or MATH 126/6.0.
EXCLUSION  No more than 1 course from MATH 225/3.5; MATH 226/3.0; MATH 231/3.0; MATH 232/3.0; MATH 235/3.0; MATH 237/3.5.

MATH 272/3.0  Applications of Numerical Methods  3L;1T;1P
An introductory course on the use of computers in science. Topics include: solving linear and nonlinear equations, interpolation, integration, and numerical solutions of ordinary differential equations. Extensive use is made of MATLAB, a high level interactive numerical package.
PREREQUISITES  (MATH 110/6.0 or MATH 111/6.0) and (CISC 101/3.0 or CISC 121/3.0).
COREQUISITE  MATH 232/3.0.
EXCLUSION  No more than 3.0 units from CISC 271/3.0; MATH 272/3.0; PHYS 313/3.0.

MATH 280/3.0  Advanced Calculus  3L;1T
Limits, continuity, C^1, and linear approximations of functions of several variables. Multiple integrals and Jacobians. Line and surface integrals. The theorems of Green, Stokes, and Gauss.
PREREQUISITES  (MATH 110/6.0 or MATH 111/6.0 or MATH 112/3.0) and (MATH 120/6.0).
EXCLUSION  No more than 3.0 units from MATH 221/3.0; MATH 227/3.0; MATH 280/3.0.

MATH 281/3.0  Introduction to Real Analysis  3L;1T
PREREQUISITES  MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or MATH 124/3.0.

MATH 310/3.0  Group Theory  3L
Permutation groups, matrix groups, abstract groups, subgroups, homomorphisms, cosets, quotient groups, group actions, Sylow theorems.
PREREQUISITE  MATH 210/3.0 or MATH 217/3.0.

MATH 311/3.0  Elementary Number Theory  3L
Congruences; Euler’s theorem; continued fractions; prime numbers and their distribution; quadratic forms; Pell’s equation; quadratic reciprocity; introduction to elliptic curves.
PREREQUISITE  MATH 210/3.0 or MATH 211/6.0.

MATH 312/3.0  Linear Algebra  3L;1T
Canonical forms, spectral and other matrix decompositions, quadratic forms, inner product spaces, projection theorem, applications to linear systems and optimization.
PREREQUISITE  MATH 110/6.0.
EXCLUSION  No more than 1 course from MATH 211/6.0; MATH 312/3.0.

MATH 326/3.0  Functions of a Complex Variable  3L
Complex numbers, analytic functions, harmonic functions, Cauchy’s Theorem, Taylor and Laurent series, calculus of residues, Rouche’s Theorem.
PREREQUISITE  MATH 281/3.0.
EXCLUSION  No more than 3.0 units from MATH 228/3.0; MATH 326/3.0.

MATH 328/3.0  Real Analysis  3L
Metric spaces, topological spaces, compactness, completeness, contraction mappings, sequences and series of functions, uniform convergence, inverse and implicit function theorems.
PREREQUISITE  MATH 281/3.0.
MATH 334/3.0  Mathematical Methods for Engineering and Physics 3L;1T
Orthonormal families, Fourier series and convergence. Signal spaces, Fourier transforms, and generalized functions. Solution of boundary value problems, including heat, wave, and potential equations. Applications to mechanical, electrical, and thermal systems.
PREREQUISITES (MATH 231/3.0 or MATH 237/3.0) and MATH 281/3.0.
EXCLUSION No more than 1 course from MATH 334/3.0; PHYS 312/6.0.

MATH 335/3.0  Mathematics of Engineering Systems 3L;1T
PREREQUISITES MATH 334/3.0 and (MATH 326/3.0 or MATH 228/3.0).
EXCLUSION No more than 1 course from MATH 236/3.0; MATH 335/3.0; PHYS 312/6.0.
EQUIVALENCY MATH 236/3.0.

MATH 337/3.0  Introduction to Operations Research Models 3L
Some probability distributions, simulation, Markov chains, queuing theory, dynamic programming, inventory theory.
PREREQUISITES (STAT 251/3.0 or STAT 261/3.0 or STAT 263/3.0 or STAT 356/3.0 or STAT 367/3.0) and (MATH 110/6.0 or MATH 111/6.0 or MATH 112/3.0) and MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or MATH 124/3.0).
EXCLUSION No more than 3.0 units from MATH 337/3.0; COMM 365/3.0.

MATH 339/3.0  Evolutionary Game Theory 3L
This course highlights the usefulness of game theoretical approaches in solving problems in the natural sciences and economics. Basic ideas of game theory, including Nash equilibrium and mixed strategies; stability using approaches developed for the study of dynamical systems, including evolutionary stability and replicator dynamics; the emergence of co-operative behaviour; limitations of applying the theory to human behaviour.
RECOMMENDATION MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or MATH 124/3.0.
EQUIVALENCY MATH 239/3.0.

MATH 341/3.0  Differential Geometry 3L
Introductory geometry of curves/surfaces: directional/covariant derivative; differential forms; Frenet formulas; congruent curves; surfaces in R³; mappings, topology, intrinsic geometry; manifolds; Gaussian/mean curvature; geodesics, exponential map; Gauss-Bonnet Theorem; conjugate points; constant curvature surfaces.
PREREQUISITE MATH 110/6.0 and MATH 280/3.0.

MATH 381/3.0  Mathematics with a Historical Perspective 3L
A historical perspective on mathematical ideas focussing on a selection of important and accessible theorems. A project is required.
PREREQUISITES (MATH 110/6.0 or MATH 111/6.0) and (MATH 121/6.0 or MATH 126/6.0 or MATH 120/6.0).

MATH 382/3.0  Mathematical Explorations 3L
Elementary mathematical material will be used to explore different ways of discovering results and mastering concepts. Topics will come from number theory, geometry, analysis, probability theory, and linear algebra. Much class time will be used for problem solving and presentations by students.
PREREQUISITES (MATH 221/3.0 or MATH 231/3.0 or MATH 232/3.0 or MATH 280/3.0) and (MATH 210/3.0 or MATH 211/6.0).
EXCLUSION No more than 3.0 units from IDIS 303/3.0; MATH 382/3.0 (before 2006/07).
MATH 384/3.0  Mathematical Theory of Interest  1P;1T
Interest accumulation factors, annuities, amortization, sinking funds, bonds, yield rates, capital budgeting, contingent payments. Students will work mostly on their own; there will be a total of six survey lectures and six tests throughout the term, plus opportunity for individual help.
PREREQUISITE  Level 3 and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or MATH 124/3.0).

MATH 385/3.0  Life Contingencies  3T
Measurement of mortality, life annuities, life insurance, premiums, reserves, cash values, population theory, multi-life functions, multiple-decrement functions. The classroom meetings will be primarily problem-solving sessions, based on assigned readings and problems.
PREREQUISITES  (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or MATH 124/3.0) and MATH 384/3.0 and (STAT 251/3.0 or STAT 268/3.0 or STAT 351/3.0), or permission of the Department.

MATH 386/3.0  Our Number System - an Advanced Perspective  3L
Integers and rationals from the natural numbers; completing the rationals to the reals; consequences of completeness for sequences and calculus; extensions beyond rational numbers, real numbers, and complex numbers.
PREREQUISITE  MATH 281/3.0.

MATH 387/3.0  Elementary Geometry - an Advanced Perspective  3L
In-depth follow-up to high school geometry: striking new results/connections; analysis/proof of new/familiar results from various perspectives; extensions (projective geometry, e.g.); relation of classical unsolvable constructions to modern algebra; models/technology for geometric exploration.
PREREQUISITES  Level 3 and (MATH 221/3.0 or MATH 280/3.0 or MATH 281/3.0), or permission of the Department.

MATH 391/3.0  Topics in Mathematics I  3L
An important topic in mathematics or statistics not covered in any other courses.
PREREQUISITE  Prerequisites vary depending on specific course content; consult instructor or departmental webpage.

MATH 392/3.0  Topics in Mathematics II  3L
An important topic in mathematics or statistics not covered in any other courses.
PREREQUISITE  Prerequisites vary depending on specific course content; consult instructor or departmental webpage.

MATH 401/3.0  Graph Theory  3L
An introduction to graph theory, one of the central disciplines of discrete mathematics. This course, MATH 402/3.0 and MATH 434/3.0 constitute a survey of discrete mathematics and its applications. Topics include graphs and subgraphs, trees, bond and cycle spaces, connectivity, Euler tours and Hamiltonian cycles, matchings, independent sets, cliques and networks. Given jointly with MATH 801/3.0.
RECOMMENDATION  Experience with abstract mathematics and mathematical proof, and a good foundation in linear algebra.
PREREQUISITES  MATH 210/3.0 or MATH 211/6.0 or MATH 217/3.0.

MATH 402/3.0  Combinatorics: Enumeration and Designs  3L
An introduction to two subjects which together with MATH 401/3.0 provide an entry into discrete mathematics and its applications. Among the enumeration techniques covered are inclusion-exclusion, recurrence relations, and generating functions. The study of designs includes finite geometries and Latin squares. Given jointly with MATH 802/3.0.
RECOMMENDATION  Experience with abstract mathematics and mathematical proof, and a good foundation in linear algebra.
PREREQUISITES  MATH 210/3.0 or MATH 211/6.0 or MATH 217/3.0.
MATH 405/3.0  Applications of Matrix Algebra  
PREREQUISITES Math 210/3.0 or Math 211/6.0 or Math 217/3.0 or Math 312/3.0.

MATH 406/3.0  Introduction to Coding Theory  
PREREQUISITE Math 210/3.0.

MATH 411/3.0  Topics in Algebra  
Subject matter will vary from year to year  
PREREQUISITE Permission of the Department.

MATH 412/3.0  Topics in Number Theory  
Subject matter will vary from year to year  
PREREQUISITE Permission of the Department.

MATH 413/3.0  Computational Commutative Algebra  
Algorithms for solving systems of nonlinear equations; applications in geometry, algebra, and other areas; Gröbner basis methods. A suitable software package (e.g. CoCoA, Macaulay2, Singular, Magma) will be used to explore applications.  
PREREQUISITE Math 210/3.0.

MATH 414/3.0  Introduction to Galois Theory  
An introduction to Galois Theory and some of its applications.  
PREREQUISITES Math 310/3.0.  
EQUIVALENCY Math 314/3.0.

MATH 418/3.0  Number Theory and Cryptography  
Time estimates for arithmetic and elementary number theory algorithms (division algorithm, Euclidean algorithm, congruences), modular arithmetic, finite fields, quadratic residues. Simple cryptographic systems; public key, RSA. Primality and factoring: pseudoprimes, Pollard’s rho-method, index calculus. Elliptic curve cryptography.  
PREREQUISITE (Math 210/3.0 or Math 217/3.0) or (Math 211/6.0 with permission of the Department).

MATH 421/3.0  Fourier Series  
An exploration of the modern theory of Fourier series: Abel and Cesaro summability; Dirichlet’s and Fejér’s kernels; term by term differentiation and integration; infinite products; Bernoulli numbers; Gibbs’s phenomenon.  
PREREQUISITE Math 281/3.0 or permission of the Department.

MATH 427/3.0  Introduction to Deterministic Dynamical Systems  
Topics include: global properties of flows and diffeomorphisms, Invariant sets and dynamics, Bifurcations of fixed and periodic points; stability and chaos. Examples will be selected by the instructor. Given jointly with Math 827/3.0.  
PREREQUISITES Math 328/3.0 and Math 231/3.0, or permission of the Department.

MATH 432/3.0  Variational Methods  
The classical calculus of variations: the Gateaux variation, necessary conditions, transversality, corner conditions, Euler-Lagrange multiplier theorem; applications to Hamiltonian mechanics and the Maximum Principle. Given jointly with Math 832/3.0.  
PREREQUISITES Math 280/3.0 and Math 281/3.0 and Math 231/3.0.
MATH 434/3.0  **Linear and Nonlinear Optimization**  3L
Optimization of functions of several variables, restricted by equality and inequality constraints, with applications. Linear programming, including convexity, simplex algorithm, duality, sensitivity analysis. Techniques of unconstrained optimization. Constrained optimization, including Lagrangian, Kuhn-Tucker conditions, convexity, duality, numerical techniques. Given jointly with MATH 834/3.0.
PREREQUISITES  (MATH 221/3.0 or MATH 280/3.0) and (MATH 110/6.0 or MATH 111/6.0 or MATH 112/3.0).

MATH 436/3.0  **Partial Differential Equations**  3L
Quasilinear equations: Cauchy problems, method of characteristics; Cauchy-Kovalevski theorem; generalized solutions; wave equation, Huygens’ principle, conservation of energy, domain of dependence; Laplace equation, boundary value problems, potential theory, Green’s functions; heat equation, maximum principle.
RECOMMENDATION  MATH 328/3.0 or MATH 334/3.0 or MATH 338/3.0 or PHYS 312/6.0.
PREREQUISITES  (MATH 231/3.0 or MATH 237/3.0) and MATH 280/3.0.

MATH 437/3.0  **Topics in Applied Mathematics**  3L
Subject matter to vary from year to year. Given jointly with MATH 837/3.0.
PREREQUISITE  Permission of the Department.

MATH 439/3.0  **Lagrangian Mechanics, Dynamics, and Control**  3L;1T
Configuration space, generalized coordinates, Euler-Lagrange equations. Forces: dissipative, potential. Simple mechanical control systems: modeling, linearization about equilibrium points, linear controllability tests; equivalence with kinematic systems and trajectory generation.
PREREQUISITE  (MATH 231/3.0 or MATH 237/3.0) and (MATH 280/3.0 or MATH 281/3.0), or permission of the Department.

MATH 443/3.0  **Algebraic Topology**  3L
Topological equivalence and topological invariants; homotopy and the fundamental group; covering spaces; homotopy type; Brower’s fixed point theorem; triangularization; homology and cohomology groups.
PREREQUISITES  (MATH 310/3.0) and (MATH 328/3.0 or [MATH 326/3.0 with permission of the Department]).

MATH 474/3.0  **Information Theory**  3L
Fundamental principles of communication theory, information measures, entropy, mutual information, divergence; source encoding, Huffman codes, lossless source coding theorem; channel capacity, noisy channel coding theorem, information transmission theorem; continuous-alphabet channels; capacity of discrete-time and band-limited continuous-time Gaussian channels, channels with memory, rate distortion theory. Given jointly with MATH 874/3.0.
PREREQUISITE  STAT 251/3.0 or STAT 256/3.0 or STAT 356/3.0.

MATH 477/3.0  **Source Coding and Quantization**  3L
Theory and practice of quantization and signal compression systems.
PREREQUISITE  MATH 474/3.0.

MATH 481/3.0  **Mathematical Logic**  3L
An introduction to mathematical logic, including some of the following topics: syntax of first-order theories, Peano arithmetic, Gödel’s first incompleteness theorem, sentences undecidable in Peano arithmetic, Gödel’s second incompleteness theorem, and the Hilbert program and philosophical consequences of Gödel’s theorems.
PREREQUISITES  Level 3 or 4 and registration in a MATH or PHIL Plan and at least one MATH course at the 100 level or above.

MATH 484/3.0  **Data Networks**  3L
This course covers performance models for data networking, delay models and loss models; analysis of multiple access systems, routing, and flow control; multiplexing; priority systems; satellite multiple access, wireless networking, wireless sensor networks. Knowledge of networking protocols is not required.
PREREQUISITE  STAT 455/3.0 or permission of the Department.
MATH 491/3.0  Topics in Mathematics I  
An important topic in mathematics not covered in any other courses.
PREREQUISITE  Prerequisites vary depending on specific course content; consult instructor or departmental webpage.

MATH 492/3.0  Topics in Mathematics II  
An important topic in mathematics not covered in any other courses.
PREREQUISITE  Prerequisites vary depending on specific course content; consult instructor or departmental webpage.

MATH 495/3.0  Topics in Mathematics III  
An important topic in mathematics not covered in any other courses.
PREREQUISITE  Prerequisites vary depending on specific course content; consult instructor or departmental webpage.

MATH 497/3.0  Topics in Mathematics IV  
An important topic in mathematics not covered in any other courses.
PREREQUISITE  Prerequisites vary depending on specific course content; consult instructor or departmental webpage.

MATH 498/3.0  Topics in Mathematics V  
An important topic in mathematics not covered in any other courses.
PREREQUISITE  Prerequisites vary depending on specific course content; consult instructor or departmental webpage.

MATH 499/3.0  Topics in Mathematics VI  
An important topic in mathematics not covered in any other courses.
PREREQUISITE  Prerequisites vary depending on specific course content; consult instructor or departmental webpage.

MATH 500/3.0  Readings in Mathematics I  
Open to students with a strong interest in some topic not covered in any of the regular courses. The student must find an instructor willing to supervise an agreed upon reading program and evaluation procedure, and also obtain Departmental approval for the reading program prior to registration.
PREREQUISITE  Approval of the instructor and the Department.

MATH 501/3.0  Readings in Mathematics II  
Open to students with a strong interest in some topic not covered in any of the regular courses. The student must find an instructor willing to supervise an agreed upon reading program and evaluation procedure, and also obtain Departmental approval for the reading program prior to registration.
PREREQUISITE  Approval of the instructor and the Department.

MATH 502/3.0  Readings in Mathematics III  
Open to students with a strong interest in some topic not covered in any of the regular courses. The student must find an instructor willing to supervise an agreed upon reading program and evaluation procedure, and also obtain Departmental approval for the reading program prior to registration.
PREREQUISITE  Approval of the instructor and the Department.

MATH 503/3.0  Readings in Mathematics IV  
Open to students with a strong interest in some topic not covered in any of the regular courses. The student must find an instructor willing to supervise an agreed upon reading program and evaluation procedure, and also obtain Departmental approval for the reading program prior to registration.
PREREQUISITE  Approval of the instructor and the Department.
MBIO 218/3.0  Gene Structure and Function (Molecular Biology)  3L:1T alt.wks.
Molecular mechanisms of gene expression, biochemistry of nucleic acids, chromatin structure, DNA replication,
RNA transcription, processing and translation in prokaryotic, eukaryotic and viral systems. Offered jointly by the
Departments of Biomedical and Molecular Sciences and Biology.
PREREQUISITE   BIOL 205/3.0.
MICR 121/3.0  Microbiology for Nursing Students  
3L;3P/T
This course provides the student with a foundation in the subdisciplines of bacteriology, virology, parasitology, and immunology. The course is designed to examine common infectious diseases through a body-systems approach. Laboratory and tutorial sessions emphasize diagnostic microbiology.
PREREQUISITE BCHM 102/3.0.
ONE-WAY EXCLUSION May not be taken with or after MICR 125/3.0; MICR at the 200-level or above.

MICR 160/3.0  Immunology for Today  
3L;1T
A general course providing insight into the role immunology plays in health and disease. Social and political issues associated with the increasing importance of this field will be discussed. Topics will include vaccines, immune system stimulators, organ transplants, allergies, cancer, AIDS, rheumatoid arthritis and diabetes. Offered in Spring Term only.
NOTE The course has been designed primarily for students in the humanities, social sciences and non-biological sciences. No previous training in science is required.
ONE-WAY EXCLUSION May not be taken with or after MICR 221/3.0; MICR 229/3.0; MICR 360/3.0; MICR 461/3.0.

MICR 221/3.0  Basic Microbiology  
3L;3P alt.wks.
A fundamental study of the structure and growth of microorganisms and viruses. The roles of microbes in aquatic, terrestrial and human environments will be considered.
NOTE Material Fee: estimated cost $30.
PREREQUISITES (A GPA of 1.90 in BIOL 102/3.0 and BIOL 103/3.0) and CHEM 112/6.0.
EQUIVALENCY MICR 229/3.0.

MICR 320/3.0  Microbial Pathogenesis  
3L;1T
Knowledge of interactions between bacterial or viral pathogens and their human hosts is crucial for understanding the nature of infectious diseases, as well as their control and treatment. This course examines key microbial pathogens, with the goal of introducing students to the biology, diversity and complexity of host-pathogen relationships.
PREREQUISITES (MICR 221/3.0 or MICR 229/3.0) and MICR 360/3.0.
COREQUISITE BCHM 310/6.0 or BCHM 315/3.0 or permission of the Department of Biomedical and Molecular Sciences.

MICR 360/3.0  Immunology  
3L
The general principles and mechanism of immune reaction. Immunochemical and immunobiological aspects of antibody formation and cell-mediated immunity in health and disease will be considered.
COREQUISITE (BCHM 310/6.0 or BCHM 315/3.0 or BIOL 334/3.0) or permission of the Department of Biomedical and Molecular Sciences.

MICR 435/3.0  Advanced Procaryotic Structure and Function  
3L;3P
An in-depth analysis of the genetics, biochemistry, assembly and function of the major structures of the procaryotic cell. Emphasis on the experimental approaches in the current literature.
NOTE Offered in alternate years to MICR 436/3.0.
PREREQUISITES BIOL 205/3.0 and (MICR 221/3.0 or MICR 229/3.0 with a minimum grade of B-) and (Level 4 and registration in the LISC Major or Specialization Plan) and (a GPA of 2.5).
COREQUISITE BCHM 310/6.0 or BCHM 315/3.0 or BIOL 334/3.0

MICR 436/3.0  Microbial Genetics  
3L;3P
A detailed description of the processes of heredity in bacteria including a discussion of gene structure and evolution, gene expression and its control, the exchange of genetic material in the microbial world and genetic engineering and its applications. The laboratory component will emphasize modern approaches to genetic engineering.
NOTE Offered in alternate years to MICR 435/3.0.
PREREQUISITES BIOL 205/3.0 and (MICR 221/3.0 or MICR 229/3.0 with a minimum grade of B) and (Level 4 and registration in the LISC Major or Specialization Plan) and (a GPA of 2.5).
COREQUISITE BCHM 310/3.0 or BCHM 315/3.0 or BIOL 334/3.0.
MICR 450/3.0  Principles of Molecular Virology  3L;3S
Further study of contemporary virology, using the textbook as a guide to particles, genomes, replication, expression, infection and pathogenesis. Emphasizing reading and writing to develop skills in observation and critical thinking, important attributes in understanding the scientific method.
NOTE  Offered in alternate years to MICR 451/3.0.
RECOMMENDATION  MBIO 218/3.0 or MBIO 318/3.0.
PREREQUISITES  BIOL 205/3.0 and (MICR 221/3.0 with a minimum grade of B-) and (Level 4 and registration in the LISC Major or Specialization Plan) and (a GPA of 2.5).
COREQUISITE  BCHM 310/6.0 or BCHM 315/3.0.

MICR 451/3.0  Selected Topics in Viral Pathogenesis  2L;2S;1T
The nature of selected animal virus groups and their interactions with the host in disease production. Special emphasis on the pathogenesis of tumour and human immunodeficiency viruses.
NOTE  Offered in alternate years to MICR 450/3.0.
PREREQUISITES  (Biol 205/3.0 with a minimum grade of A-) or (MBIO 218/3.0 or MBIO 318/3.0 with a minimum grade of B-) and (Level 4 and registration in the LISC Major or Specialization Plan) and (a GPA of 2.5).
COREQUISITE  BCHM 310/6.0 or BCHM 315/3.0 or BIOL 334/3.0

MICR 452/3.0  Viral Infection and Immunity  2L;2T
Course material will focus on the molecular basis for virus pathogenesis including host immune responses to virus infection, and viral countermeasures. Emphasis will be on viral infections that result in gastrointestinal, haematological, neurological, and respiratory diseases. Tutorials will focus on discussion of current and seminal literature.
PREREQUISITES  MICR 221/3.0 and MICR 360/3.0 and (Level 4 and registration in the LISC Major or Specialization Plan) and (a GPA of 2.5) or permission of the course coordinator.

MICR 455/6.0  Practicum in Virology
In-depth analysis of experimental approaches for the study of insect viruses in cell culture and practical hands-on laboratory experience through a research project.
PREREQUISITES  MICR 221/3.0 and BIOL 205/3.0 and (MBIO 218/3.0 or MBIO 318/3.0) and (Level 4 and registration in the LISC Major or Specialization Plan) and (a GPA of 2.5).
EXCLUSION  No more than 9.0 units from ANAT 499/9.0; CANC 499/9.0; EPID 499/9.0; LISC 499/9.0; MICR 455/6.0; MICR 499/9.0; NSCI 499/9.0; PATH 499/9.0; PHAR 499/9.0; PHGY 499/9.0.

MICR 461/3.0  Advanced Immunology  1L;2S
Advanced course on the cellular, genetic and molecular basis of modern immunology. Topics will reflect areas of current interest and research.
PREREQUISITE  (MICR 360/3.0 with a minimum grade of A-) and (Level 4 and registration in the LISC Major or Specialization Plan) and (a GPA of 2.5) or permission of the course coordinator.

MICR 499/9.0  Research Project in Microbiology and Immunology  10P;2T
A research project supervised by and closely related to the research program of a faculty member. The research project involves experimental design, data collection and analysis, written report and oral presentation. Students will be required to attend seminars and tutorials on topics related to research. Limited enrolment.
NOTE  Students whose research requires the care and/or handling of animals must also register in LISC 488/0.0.
PREREQUISITES  Level 4 and (registration in a LISC or ELSC Specialization Plan) and MICR 221/3.0 and permission of the Department of Biomedical and Molecular Sciences.
EXCLUSION  No more than 9.0 units from ANAT 499/9.0; CANC 499/9.0; EPID 499/9.0; LISC 499/9.0; MICR 455/6.0; MICR 499/9.0; NSCI 499/9.0; PATH 499/9.0; PHAR 499/9.0; PHGY 499/9.0.
MUSC P04/0.0  Functional Piano  1P
Intermediate-level piano instruction in class format. Successful completion of the course fulfills the piano entrance requirement for non-pianists.

NOTE  In addition to the regular tuition fee, B.Mus. students are also charged $400 to cover the cost of piano lessons if they have not completed the entrance requirement of Grade VI in Piano.

NOTE  Placement test and permission of the School is required for registration.

MUSC P06/0.0  Rudiments  3L
An introduction to musical notation, ear-training and analysis.

NOTE  For B.Mus. students who score less than an A- on the audition diagnostic test. These students are required to achieve a grade of A- in MUSC P06/0.0.

MUSC P52/3.0  Rudiments  3L
An introduction to musical notation, ear-training and analysis for non-B.Mus. students.

NOTE  May not be taken by students at Level 4 or who hold the Royal Conservatory Grade II Rudiments with First-Class Honours standing.

ONE-WAY EXCLUSION  May not be taken with or after: MUSC 191/6.0.

MUSC 101/3.0  An Introduction to the History of Western Art Music I  3L
The history of Western art music from the Middle Ages to 1750. The course focuses on musical styles, genres, and composers, as well as historical and social contextual considerations.

NOTE  Students registered in a MUSC Plan (other than the MUSC Minor/General) should not register in this course.

EXCLUSION  No more than 3.0 units from MUSC 101/3.0; MUSC 204/3.0.

EXCLUSION  No more than 3.0 units from MUSC 101/3.0; MUSC 205/3.0.

MUSC 102/3.0  An Introduction to the History of Western Art Music II  3L
The history of Western art music from 1750 to the present. The course focuses on musical styles, genres, and composers, as well as historical and social contextual considerations.

NOTE  Students registered in a MUSC Plan (other than the MUSC Minor/General) should not register in this course.

EXCLUSION  No more than 3.0 units from MUSC 102/3.0; MUSC 203/3.0.

EXCLUSION  No more than 3.0 units from MUSC 102/3.0; MUSC 204/3.0.

MUSC 103/3.0  Music and Society  3L
An introductory examination of the fundamental place of music in human society through a broad survey of music systems from around the world, as well as foundations in the critical listening, research, and writing skills used in music scholarship.

NOTE  Also offered at the Bader International Study Centre, Herstmonceux.

NOTE  Students registered in the MUSC Minor/General Plan should not enrol in this course.

NOTE  Students holding First-Class Honours standing in the Royal Conservatory Grade II Rudiments may enrol in the course with permission of the School.

PREREQUISITE  A grade of A- in MUSC P52/3.0.

COREQUISITE  MUSC 191/6.0.

MUSC 120/6.0  Applied Study I (Performance)  1P
A first year study of the student’s applied subject (instrument or voice) in the performance concentration.

NOTE  B.Mus. students are charged a supplemental annual fee of $450 for one-hour applied instrument or voice lessons.

NOTE  Open only to students who have demonstrated a considerably higher level of performance ability than the minimum required for B.Mus. admission.

PREREQUISITE  Permission of the School.

COREQUISITE  MUSC 125/6.0.

EXCLUSION  No more than 6.0 units from MUSC 120/6.0; MUSC 121/6.0.
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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSC 121/6.0</td>
<td>Applied Study I</td>
<td>1P</td>
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<tr>
<td></td>
<td>The first year of study of the student’s chief practical subject (instrument or voice).</td>
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<td></td>
<td>NOTE    B.Mus. students are charged a supplemental annual fee of $450 for one-hour applied instrument or voice lessons.</td>
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<td>EXCLUSION No more than 6.0 units from MUSC 120/6.0; MUSC 121/6.0.</td>
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<td>EXCLUSION No more than 6.0 units from MUSC 121/6.0; MUSC 125/6.0.</td>
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<tr>
<td>MUSC 124/6.0</td>
<td>Applied Music</td>
<td>1P</td>
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<td>Private instrumental or vocal instruction for non-B.Mus. students. In addition to the regular tuition fee, students are charged an additional fee ($1,500 in 2011-12, but subject to change) to cover the cost of private music lessons. Auditions required.</td>
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<td>RECOMENDATION At least i) Royal Conservatory Grade IX (or equivalent) for pianists; or ii) Grade VIII piano and Grade VIII organ (or equivalent) for organists; or iii) Grade VIII (or equivalent) for all other instrumentalists and vocalists;</td>
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<td>PREREQUISITE Permission of the School.</td>
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<tr>
<td>MUSC 125/6.0</td>
<td>Applied Study I (Performance Recital)</td>
<td>1P</td>
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<td>Students will perform in a public recital in accordance with the guidelines established by the School of Music.</td>
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<td>COREQUISITE MUSC 120/6.0.</td>
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<td>EXCLUSION No more than 6.0 units from MUSC 121/6.0; MUSC 125/6.0.</td>
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<tr>
<td>MUSC 127/3.0</td>
<td>Ear Training and Sight Singing I</td>
<td>2P</td>
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<td>Training in sight reading and dictation.</td>
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<td>MUSC 128/3.0</td>
<td>Keyboard Harmony I</td>
<td>1P</td>
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<td>The development of keyboard skills in diatonic harmony, elementary transposition, realization of figured bass, and improvisation.</td>
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<td>RECOMENDATION Grade VI piano or equivalent.</td>
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<tr>
<td>MUSC 153/6.0</td>
<td>Composition Seminar</td>
<td>2P</td>
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<td>A study of composition with an emphasis on traditional and 20th-century techniques.</td>
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<td>NOTE Students holding First-Class Honours standing in the Royal Conservatory Grade II Rudiments may enrol in the course with permission of the School.</td>
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<td>PREREQUISITE A minimum grade of A- in MUSC P52/3.0</td>
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<tr>
<td>MUSC 160/1.5</td>
<td>Choral Ensemble</td>
<td>3P</td>
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<td>Choral ensemble experience for all students.</td>
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<td>NOTE Placement is made at the discretion of the School of Music. Open to non-B.Mus. students, after audition, without credit.</td>
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<tr>
<td>MUSC 162/1.5</td>
<td>Symphony Orchestra</td>
<td>3P</td>
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<td>Ensemble experience for qualified players of orchestral instruments.</td>
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<td>NOTE Open to non-B.Mus. students, after audition, without credit.</td>
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<tr>
<td>MUSC 164/1.5</td>
<td>Polyhymnia</td>
<td>3P</td>
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<td></td>
<td>A small choir of approximately 30 women’s voices. For experienced choral singers.</td>
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<td>NOTE Open to non-B.Mus. students, after audition, without credit.</td>
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<tr>
<td>MUSC 165/1.5</td>
<td>Brass Choir</td>
<td>2P</td>
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<tr>
<td></td>
<td>Ensemble experience for qualified brass performers.</td>
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<td>NOTE Open to non-B.Mus. students, after audition, without credit.</td>
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<tr>
<td>MUSC 166/1.5</td>
<td>Jazz Ensemble</td>
<td>3P</td>
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<tr>
<td></td>
<td>An ensemble devoted to the performance of Big Band music. Ability to improvise in a jazz idiom preferred but not essential.</td>
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<td></td>
<td>NOTE Open to non-B.Mus. students, after audition, without credit.</td>
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</tr>
</tbody>
</table>
MUSC 167/1.5  
**Jazz Choir**  
A mixed voice choir devoted to the performance of jazz vocal music. For students with choral music experience.  
NOTE  
Open to non-B.Mus. students, after audition, without credit.

MUSC 168/1.5  
**Clarinet Choir**  
Ensemble experience for qualified clarinetists.  
NOTE  
Open to non-B.Mus. students, after audition, without credit.

MUSC 169/1.5  
**Flute Choir**  
Ensemble experience for qualified flutists.  
NOTE  
Open to non-B.Mus. students, after audition, without credit.

MUSC 171/3.0  
**Social History of Popular Music**  
A survey of important trends in 20th century Western popular music. Topics include genres, individual artists and groups, record labels and stylistic trends, and sociological issues.  
NOTE  
Also offered at the Bader International Study Centre, Herstmonceux.

MUSC 178/1.5  
**Wind Ensemble**  
Ensemble experience for qualified players of wind and percussion instruments. Placement is made at the discretion of the School of Music.  
NOTE  
Open to non-B.Mus. students, after audition, without credit.

MUSC 179/1.5  
**Symphonic Band**  
Ensemble experience for players of wind and percussion instruments. Placement is made at the discretion of the School of Music.  
NOTE  
Open to non-B.Mus. students, after audition, without credit.

MUSC 180/3.0  
**Vocal Techniques and Methods**  
An introduction to the study of the singing voice through class instruction. Fundamental techniques that can be used in a teaching situation will be emphasized. Includes the study of the changing voice (male and female), breathing techniques, vowel formations, warm-ups, method books and teaching techniques.  
NOTE  
Enrolment is limited to students in a MUSC Plan or the B.Mus. Program.  
EXCLUSION  
No more than 6.0 units from MUSC 180-189/3.0.

MUSC 181/3.0  
**Woodwind Techniques and Methods I**  
An introduction to the study of woodwind instruments through class instruction on selected instruments. Fundamental playing techniques and diagnostics will be emphasized. Includes the study of ranges, fingerings, transpositions, basic instrument maintenance, method books and teaching techniques. Rental instruments available.  
NOTE  
Enrolment is limited to students in a MUSC Plan or the B.Mus. Program.  
EXCLUSION  
No more than 6.0 units from MUSC 180-189/3.0.

MUSC 182/3.0  
**Woodwind Techniques and Methods II**  
A continuation of MUSC 181/3.0. Students will study those instruments not previously studied in MUSC 181/3.0. Emphasis expands to intermediate levels, with further study of playing techniques, ranges, fingerings, transpositions, instrument maintenance, method books, ensemble repertoire and teaching techniques. Rental instruments available.  
NOTE  
Enrolment is limited to students in a MUSC Plan or the B.Mus. Program.  
PREREQUISITE  
MUSC 181/3.0.  
EXCLUSION  
No more than 6.0 units from MUSC 180-189/3.0.

MUSC 183/3.0  
**Brass Techniques and Methods I**  
An introduction to the study of brass instruments through class instruction on trumpet, trombone, and euphonium. Fundamental playing techniques and diagnostics will be emphasized. Includes the study of ranges, fingerings, transpositions, basic instrument maintenance, method books and teaching techniques. Rental instruments available.  
NOTE  
Enrolment is limited to students in a MUSC Plan or the B.Mus. Program.  
EXCLUSION  
No more than 6.0 units from MUSC 180-189/3.0.
MUSC 185/3.0  String Techniques and Methods I  3L/T
An introduction to the orchestral strings through class instruction. Fundamental playing techniques will be emphasized. Includes the study of ranges, fingerings, bowings, transpositions, tunings, basic instrument maintenance, method books and teaching techniques. Rental instruments available.
NOTE  Enrolment is limited to students in a MUSC Plan or the B.Mus. Program.
EXCLUSION  No more than 6.0 units from MUSC 180-189/3.0.

MUSC 187/3.0  Percussion Techniques and Methods I  3L/T
An introduction to playing techniques, management of the percussion section, notation, and performance practice on band, orchestral and keyboard percussion instruments. Includes the study of ranges, transpositions, basic instrument maintenance, method books and teaching techniques. Rental instruments available.
NOTE  Enrolment is limited to students in a MUSC Plan or the B.Mus. Program.
EXCLUSION  No more than 6.0 units from MUSC 180-189/3.0.

MUSC 188/3.0  Guitar Techniques and Methods  3L/T
An introduction to the guitar through class instruction. Fundamental note-playing and chording techniques to accompany singing will be emphasized. Includes the study of ranges, fingerings, transpositions, basic instrument maintenance, method books and teaching techniques. Students must provide their own instruments.
NOTE  Enrolment is limited to students in a MUSC Plan or the B.Mus. Program.
EXCLUSION  No more than 6.0 units from MUSC 180-189/3.0.

MUSC 189/3.0  Techniques and Methods of Non-Western Instruments  2P
Group instruction in the basic techniques and methods of a selected non-Western instrument and their application to teaching. Rental instruments available.
NOTE  Enrolment is limited to students in a MUSC Plan or the B.Mus. Program.
EXCLUSION  No more than 6.0 units from MUSC 180-189/3.0.

MUSC 191/6.0  Theory and Analysis I  3L;1T
Diatonic voice-leading and harmony, principles of form and small structures (binary, ternary) through part-writing and analysis.
NOTE  Students holding First-Class Honours standing in the Royal Conservatory Grade II Rudiments may enrol in the course with permission of the School.
PREREQUISITE  A minimum grade of A- in MUSC P52/3.0.

MUSC 195/3.0  The Collegium Musicum  3L
An historical performance practice course and ensemble, dealing with the performance and authentic performance practice traditions of vocal and instrumental music from the Middle Ages to the Renaissance (900-1600) through investigation of iconographic data, notation and performance treatises. A major concert is presented at the end of the academic year.
RECOMMENDATION  Some music background is recommended.
PREREQUISITE  Admission by consultation with the instructor.

MUSC 203/3.0  Romantic and Twentieth-Century Music  3L
Examination of musical styles and movements in the nineteenth and twentieth centuries, in their sociocultural contexts. Discussion of foundation topics introduced in MUSC 103/3.0 is continued.
NOTE  Also offered at the Bader International Study Centre, Herstmonceux.
NOTE  Non-Music students holding Royal Conservatory Grade III Harmony may enrol in this course with permission of the School.
PREREQUISITE  MUSC 103/3.0
COREQUISITE  MUSC 191/6.0.
EXCLUSION  No more than 3.0 units from MUSC 102/3.0; MUSC 203/3.0.
MUSC 204/3.0  Baroque and Classical Music  3L
Examination of musical styles and movements in the Western tradition between about 1580 and 1820 in their sociocultural contexts.
NOTE Non-Music students holding Royal Conservatory Grade III Harmony may enrol in this course with permission of the School.
PREREQUISITE MUSC 103/3.0
COREQUISITE MUSC 191/6.0.
EXCLUSION No more than 3.0 units from MUSC 102/3.0; MUSC 204/3.0.

MUSC 205/3.0  Mediaeval and Renaissance Music  3L
An examination of musical styles, structures and historical movements of the Western art tradition from the Age of Antiquity, to the Middle Ages, through to the Renaissance from circa 500 B.C.E. to circa 1600 A.D.
NOTE Non-Music students holding Royal Conservatory Grade III Harmony may enrol in this course with permission of the School.
PREREQUISITE MUSC 103/3.0
COREQUISITE MUSC 191/6.0.
EXCLUSION No more than 3.0 units from MUSC 101/3.0; MUSC 205/3.0.

MUSC 220/6.0  Applied Study II (Performance)  1P
Continuation of MUSC 120/6.0.
NOTE B.Mus. students are charged a supplemental annual fee of $450 for one-hour applied instrument or voice lessons.
NOTE Students who do not hold the prerequisite may audition for admission to this course. They must obtain a grade of A- in the jury examination component of MUSC 121/6.0 or MUSC 124/6.0 and receive recommendation of the jury.
PREREQUISITES A grade of B in both MUSC 120/6.0 and MUSC 125/6.0.
COREQUISITE MUSC 225/6.0.
EXCLUSION No more than 6.0 units from MUSC 220/6.0; MUSC 221/6.0.

MUSC 221/6.0  Applied Study II  1P
Continuation of MUSC 121/6.0.
NOTE B.Mus. students are charged a supplemental annual fee of $450 for one-hour applied instrument or voice lessons.
PREREQUISITE MUSC 121/6.0.
EXCLUSION No more than 6.0 units from MUSC 220/6.0; MUSC 221/6.0.
EXCLUSION No more than 6.0 units from MUSC 221/6.0; MUSC 225/6.0.

MUSC 224/6.0  Applied Music  1P
Continuation of MUSC 124/6.0.
NOTE Open to non-B.Mus. students only.
NOTE In addition to the regular tuition fee, students are charged an additional fee ($1,500 in 2011-12, but subject to change) to cover the cost of private music lessons.
PREREQUISITES MUSC 124/6.0 and permission of the School.

MUSC 225/6.0  Applied Study II (Performance Recital)  1P
Students will perform in a public recital in accordance with guidelines established by the School of Music.
COREQUISITE MUSC 220/6.0.
EXCLUSION No more than 6.0 units from MUSC 221/6.0; MUSC 225/6.0.

MUSC 227/3.0  Ear Training and Sight Singing II  2P
A continuation of MUSC 127/3.0.
PREREQUISITE MUSC 127/3.0.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>MUSC 228/3.0</td>
<td>Keyboard Harmony II</td>
<td>1P</td>
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<td>The continued development of keyboard skills (harmonization, figured bass and improvisation) using traditional harmony, and a comprehensive study of score reading and analysis leading to a practical command of open score. PREREQUISITE MUSC 128/3.0.</td>
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<tr>
<td>MUSC 253/3.0</td>
<td>Introduction to Jazz Improvisation</td>
<td>1L;2T</td>
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<td>An introduction to the skills required to improvise in the jazz style. Students will develop their ability to improvise by analysing, listening and performing repertoire from the Swing and Bebop eras. NOTE Open to non-B.Mus. students by audition. PREREQUISITE Level 2 and registration in the B.Mus. program or permission of the instructor.</td>
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<tr>
<td>MUSC 255/6.0</td>
<td>Electroacoustic Music Composition</td>
<td>3L</td>
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<td></td>
<td>Basic techniques of electroacoustic music composition, including recording, sound editing, synthesis, MIDI, sequencers and synthesizer voicing. Emphasis is also placed on the history and aesthetics of electroacoustic music through listening, discussion and analysis. RECOMMENDATION Experience in music composition is encouraged but not a prerequisite.</td>
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<tr>
<td>MUSC 258/3.0</td>
<td>Science and Technology of Music</td>
<td>3L</td>
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<td>Practical aspects of the physics of musical instruments, architectural acoustics, physiology of the ear and of the voice, tuning and temperament, psychoacoustics, and audio electronics including analog and digital technologies for recording, synthesis and broadcasting. Attention will also be given to the history and literature of electroacoustic music.</td>
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<tr>
<td>MUSC 260/1.5</td>
<td>Choral Ensemble</td>
<td>3P</td>
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<td>Choral ensemble experience for all students. PREREQUISITE MUSC 160/1.5.</td>
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<tr>
<td>MUSC 261/1.5</td>
<td>Keyboard Accompaniment</td>
<td>1P</td>
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<tr>
<td></td>
<td>Development of sight reading and accompaniment skills for pianists in close co-ordination with vocal and instrumental students.</td>
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<tr>
<td>MUSC 262/1.5</td>
<td>Symphony Orchestra</td>
<td>3P</td>
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<td></td>
<td>Ensemble experience for qualified players of orchestral instruments. PREREQUISITE MUSC 162/1.5.</td>
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<tr>
<td>MUSC 263/1.5</td>
<td>Unspecified Chamber Ensemble</td>
<td>1P</td>
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<td></td>
<td>Chamber music experience for qualified instrumentalists and singers. NOTE Open to non-B.Mus. students, after audition, without credit. PREREQUISITE Level 2 and permission of the School.</td>
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<tr>
<td>MUSC 264/1.5</td>
<td>Polyhymnia</td>
<td>3P</td>
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<tr>
<td></td>
<td>A small choir of approximately 30 women’s voices. For experienced choral singers. PREREQUISITE MUSC 164/1.5.</td>
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<tr>
<td>MUSC 265/1.5</td>
<td>Brass Choir</td>
<td>2P</td>
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<tr>
<td></td>
<td>Ensemble experience for qualified brass performers. PREREQUISITE MUSC 165/1.5.</td>
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<tr>
<td>MUSC 266/1.5</td>
<td>Jazz Ensemble</td>
<td>3P</td>
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<td></td>
<td>An ensemble devoted to the performance of Big Band music. Ability to improvise in a jazz idiom preferred but not essential. PREREQUISITE MUSC 166/1.5.</td>
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<tr>
<td>MUSC 267/1.5</td>
<td>Jazz Choir</td>
<td>3P</td>
</tr>
<tr>
<td></td>
<td>A mixed voice choir devoted to the performance of jazz vocal music. For students with choral music experience. PREREQUISITE MUSC 167/1.5.</td>
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</tbody>
</table>
MUSC 268/1.5  Clarinet Choir  
Ensemble experience for qualified clarinetists.  
PREREQUISITE  MUSC 168/1.5.

MUSC 269/1.5  Flute Choir  
Ensemble experience for qualified flutists.  
PREREQUISITE  MUSC 169/1.5.

MUSC 270/3.0  Conducting Techniques  
An introduction to basic principles of conducting, baton and rehearsal techniques. PREREQUISITES  MUSC 191/6.0 and (MUSC 121/6.0 or MUSC 124/6.0) and (6.0 units from MUSC 180/3.0; MUSC 181/3.0; MUSC 183/3.0; MUSC 185/3.0; MUSC 187/3.0; MUSC 188/3.0).

MUSC 273/3.0  An Introduction to Music Education  
An introduction to the historical, psychological, sociological, and philosophical foundations of music education in North America. Three school-based observations may be included. PREREQUISITE  (MUSC 103/3.0 and registration in the MUSC Medial Plan or B.Mus. Program) or ([MUSC 101/3.0 or MUSC 102/3.0] and [MUSC 171/3.0 or MUSC 289/3.0] and registration in the MUSC Minor/General Plan). COREQUISITE  MUSC 191/6.0.

MUSC 274/3.0  Music Education: Partnership Placement  
A laboratory course emphasizing weekly field-based observations and supervised practice teaching experiences in music within schools and/or community organizations in conjunction with music education theory. PREREQUISITE  MUSC 273/3.0.

MUSC 278/1.5  Wind Ensemble  
Ensemble experience for qualified players of wind and percussion instruments. Placement is made at the discretion of the School of Music. PREREQUISITE  MUSC 178/1.5.

MUSC 279/1.5  Symphonic Band  
Ensemble experience for players of wind and percussion instruments. Placement is made at the discretion of the School of Music. PREREQUISITE  MUSC 179/1.5.

MUSC 286/3.0  Women, Gender and Music  
A study, from feminist perspectives, of women’s roles in music and relation to music in popular and classical genres of various historic and contemporary traditions. Critical examination of the construct of gender and identity in several musics is included.

MUSC 287/3.0  Opera  
An introduction to opera through the study of selected works from the Baroque era to the 20th century. Equal attention will be paid to literary, musical and visual aspects.  
NOTE  Also offered at the Bader International Study Centre, Herstmonceux.

MUSC 289/3.0  World Musics  
An introduction to the study of music in culture, based on world music traditions. The course focuses on a selection of Native North American, African, European, Eastern and Middle Eastern, as well as other musical contexts.

MUSC 291/6.0  Theory and Analysis II  
Tonal and chromatic voice-leading and harmony, larger formal structures, including expanded 19th-century forms, through part-writing and analysis. PREREQUISITE  MUSC 191/6.0 with a minimum grade of C-, or permission of the School.
MUSC 295/1.5  The Collegium Musicum
An historical performance practice course and ensemble, dealing with the performance and authentic performance practice traditions of vocal and instrumental music from the Middle Ages to the Renaissance (900-1600) through investigation of iconographic data, notation and performance treatises. A major concert is presented at the end of the academic year.
NOTE    Open only to B.Mus. students.
PREREQUISITE    MUSC 195/3.0.
EXCLUSION    No more than 1 course from MUSC 295/1.5; MUSC 297/3.0.

MUSC 297/3.0  The Collegium Musicum
An historical performance practice course and ensemble, dealing with the performance and authentic performance practice traditions of vocal and instrumental music from the Middle Ages to the Renaissance (900-1600) through investigation of iconographic data, notation and performance treatises. A major concert is presented at the end of the academic year.
NOTE    Open only to non-B.Mus. students.
PREREQUISITE    MUSC 195/3.0.
EXCLUSION    No more than 1 course from MUSC 295/1.5; MUSC 297/3.0.

MUSC 320/6.0  Applied Study III (Performance)  1P
Continuation of MUSC 220/6.0.
NOTE    B.Mus. students are charged a supplemental annual fee of $450 for one-hour applied instrument or voice lessons.
PREREQUISITES    A grade of B in both MUSC 220/6.0 and MUSC 225/6.0.
NOTE    Students who do not hold the prerequisite may audition for admission to this course. They must obtain a grade of A- in the jury examination component of MUSC 221/6.0 or MUSC 224/6.0 and receive recommendation of the jury.
COREQUISITE    MUSC 325/6.0.
EXCLUSION    No more than 6.0 units from MUSC 320/6.0; MUSC 321/6.0.

MUSC 321/6.0  Applied Study III  1P
Continuation of MUSC 221/6.0 at an advanced level.
NOTE    B.Mus. students are charged a supplemental annual fee of $450 for one-hour applied instrument or voice lessons.
PREREQUISITE    A grade of B- in (MUSC 220/6.0 or MUSC 221/6.0).
EXCLUSION    No more than 6.0 units from MUSC 320/6.0; MUSC 321/6.0.
EXCLUSION    No more than 6.0 units from MUSC 321/6.0; MUSC 325/6.0.

MUSC 324/6.0  Applied Music  1P
Continuation of MUSC 224/6.0.
NOTE    Open to non-B.Mus. students only. In addition to the regular tuition fee, students are charged an additional fee ($1,500 in 2011-12, but subject to change) to cover the cost of private music lessons.
PREREQUISITES    MUSC 224/6.0 and permission of the School.
EXCLUSION    No more than 6.0 units from MUSC 320/6.0; MUSC 321/6.0; MUSC 324/6.0.

MUSC 325/6.0  Applied Study III (Performance Recital)
Students will perform in a public recital in accordance with guidelines established by the School of Music.
COREQUISITE    MUSC 320/6.0.
EXCLUSION    No more than 6.0 units from MUSC 321/6.0; MUSC 325/6.0.
**MUSC 326/3.0  Lyric Diction  2L**
Introduction to phonetics, the International Phonetic Alphabet and voice physiology together with a study of the rules of pronunciation in English, Italian, French and German. Emphasis on active skills, singing and discussion. Highly recommended for all voice students and students planning graduate study in voice, choral conducting or collaborative piano.
**PREREQUISITES**  (MUSC 120/6.0 or MUSC 121/6.0) or (permission of the coordinator of the voice area and [MUSC 124/6.0 or MUSC 180/3.0]).
**EQUIVALENCY**  MUSC 226/3.0.

**MUSC 328/3.0  Applied Pedagogy  2L;1P**
The practical study of teaching techniques of standard musical repertoire (solo, chamber, orchestral, operatic, etc.) of a particular instrument. The course requires student performances of representative musical works. The instruments studied will rotate from year to year as resources permit.
**PREREQUISITES**  (MUSC 120/6.0 or MUSC 121/6.0 or MUSC 124/6.0) and permission of the School.

**MUSC 332/3.0  Music in Early Adolescence  3L**
An introduction to the methods, materials, and curriculum design suitable for teaching music to pupils in grades 5 through 8.
**PREREQUISITES**  MUSC 273/3.0 and MUSC 274/3.0.

**MUSC 333/3.0  Dalcroze, Kodaly and Orff  3L**
An historical overview and introduction to the philosophical and pedagogical views of Emile Jaques-Dalcroze, Zoltan Kodály and Carl Orff to teaching music.
**PREREQUISITES**  MUSC 273/3.0 and MUSC 274/3.0.
**EXCLUSION**  No more than 3.0 units from MUSC 233/3.0; MUSC 333/3.0.

**MUSC 336/3.0  Music in Early Childhood and Primary Education  3L**
An introduction to the methods, materials, and curriculum design suitable for teaching music to pre-school and primary-aged school pupils.
**PREREQUISITES**  MUSC 273/3.0 and MUSC 274/3.0.

**MUSC 338/3.0  Music in Senior High School  3L**
An introduction to the methods, materials, and curriculum design suitable for teaching music to senior high school students.
**PREREQUISITES**  MUSC 273/3.0 and MUSC 274/3.0 and (3.0 units from MUSC 180-188/3.0) and (MUSC 332/3.0 or MUSC 336/3.0).

**MUSC 351/3.0  Acoustic Composition**
Guidance in the development of the student as a composer for instruments and voice.
**NOTE**  Students must submit a portfolio of compositions to the School of Music Office by the last day of classes in the Winter Term. Admission is determined through evaluation of portfolios by a Faculty jury. Submission of a portfolio does not guarantee admission.

**MUSC 352/3.0  Electroacoustic Composition  2P**
Guidance in the development of the student as a composer of electroacoustic music.
**NOTE**  Students must submit in writing to the School of Music Office their request to apply for this course by the last day of classes in the Winter Term.
**PREREQUISITES**  MUSC 255/6.0 and permission of the School.

**MUSC 354/6.0  Acoustic Composition**
Guidance in the development of the student as a composer for instruments and voice.
**NOTE**  Students must submit a portfolio of compositions to the School of Music Office by the last day of classes in the Winter Term. Admission is determined through evaluation of portfolios by a Faculty jury. Submission of a portfolio does not guarantee admission.
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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUSC 355/6.0</td>
<td>Electroacoustic Composition</td>
<td>2P</td>
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<tr>
<td></td>
<td>Guidance in the development of the student as a composer of electroacoustic music.</td>
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<tr>
<td></td>
<td>NOTE Students must submit in writing to the School of Music Office their request to apply for this course by the last day of classes in the Winter Term.</td>
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<td>PREREQUISITES MUSC 255/6.0 and permission of the School.</td>
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<tr>
<td>MUSC 358/3.0</td>
<td>Jazz and Popular Music Arranging</td>
<td>3L</td>
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<tr>
<td></td>
<td>Notation, symbols and format of popular music, jazz and music theatre. Scoring and arranging for small jazz groups, studio bands, rock bands, and commercial orchestra.</td>
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<td>PREREQUISITE MUSC 291/6.0 or permission of the School.</td>
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<tr>
<td>MUSC 360/1.5</td>
<td>Choral Ensemble</td>
<td>3P</td>
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<tr>
<td></td>
<td>Choral ensemble experience for all students.</td>
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<td>PREREQUISITE MUSC 260/1.5.</td>
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<tr>
<td>MUSC 361/1.5</td>
<td>Keyboard Accompaniment</td>
<td>1P</td>
</tr>
<tr>
<td></td>
<td>Development of sight reading and accompaniment skills for pianists in close co-ordination with vocal and instrumental students.</td>
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<td>PREREQUISITE MUSC 261/1.5.</td>
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<tr>
<td>MUSC 362/1.5</td>
<td>Symphony Orchestra</td>
<td>3P</td>
</tr>
<tr>
<td></td>
<td>Ensemble experience for qualified players of orchestral instruments.</td>
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<td></td>
<td>PREREQUISITE MUSC 262/1.5.</td>
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<tr>
<td>MUSC 363/1.5</td>
<td>Unspecified Chamber Ensemble</td>
<td>1P</td>
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<td></td>
<td>Chamber music experience for qualified instrumentalists and singers.</td>
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<td>PREREQUISITE MUSC 263/1.5 and permission of the School.</td>
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<tr>
<td>MUSC 364/1.5</td>
<td>Polyhymnia</td>
<td>3P</td>
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<td></td>
<td>A small choir of approximately 30 women’s voices. For experienced choral singers</td>
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<td>PREREQUISITE MUSC 264/1.5.</td>
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<td>MUSC 365/1.5</td>
<td>Brass Choir</td>
<td>2P</td>
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<td>Ensemble experience for qualified brass performers.</td>
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<td>PREREQUISITE MUSC 265/1.5.</td>
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<td>MUSC 366/1.5</td>
<td>Jazz Ensemble</td>
<td>3P</td>
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<td></td>
<td>An ensemble devoted to the performance of Big Band music. Ability to improvise in a jazz idiom preferred but not essential.</td>
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<td>PREREQUISITE MUSC 266/1.5.</td>
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<tr>
<td>MUSC 367/1.5</td>
<td>Jazz Choir</td>
<td>3P</td>
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<tr>
<td></td>
<td>A mixed voice choir devoted to the performance of jazz vocal music. For students with choral music experience.</td>
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<td>PREREQUISITE MUSC 267/1.5.</td>
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<tr>
<td>MUSC 368/1.5</td>
<td>Clarinet Choir</td>
<td>2P</td>
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<td>Ensemble experience for qualified clarinetists.</td>
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<td>PREREQUISITE MUSC 268/1.5.</td>
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<td>MUSC 369/1.5</td>
<td>Flute Choir</td>
<td>1P</td>
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<td>Ensemble experience for qualified flutists.</td>
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<td>PREREQUISITE MUSC 269/1.5.</td>
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<td>Course Code</td>
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<tr>
<td>MUSC 373/3.0</td>
<td>Music Theatre Practicum</td>
<td>3L/P</td>
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<td>MUSC 378/1.5</td>
<td>Wind Ensemble</td>
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<td>MUSC 379/1.5</td>
<td>Symphonic Band</td>
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<td>MUSC 380/3.0</td>
<td>Topics in Music History and Culture I</td>
<td>3L/S</td>
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<tr>
<td>MUSC 381/3.0</td>
<td>Topics in Music History and Culture II</td>
<td>3L/S</td>
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<tr>
<td>MUSC 385/3.0</td>
<td>Research and Bibliography in Historical Musicology</td>
<td>3S</td>
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<tr>
<td>MUSC 386/3.0</td>
<td>Research and Bibliography in Ethnomusicology</td>
<td>3L/S</td>
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<tr>
<td>MUSC 388/3.0</td>
<td>Canadian Music since 1930</td>
<td>3L/S</td>
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<tr>
<td>MUSC 392/3.0</td>
<td>Theory and Analysis III</td>
<td>3L</td>
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<tr>
<td>MUSC 393/3.0</td>
<td>Introduction to Computers in Multimedia</td>
<td>3L/S</td>
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MUSC 394/3.0  Contrapuntal Analysis  
Study, through analysis, of contrapuntal procedures and styles, from the earliest use of counterpoint through to contemporary contrapuntal compositions.
NOTE   Priority will be given to students who have not yet completed one of the counterpoint courses.
PREREQUISITE   MUSC 291/6.0 or permission of the School.

MUSC 395/1.5  The Collegium Musicum  
An historical performance practice course and ensemble, dealing with the performance and authentic performance practice traditions of vocal and instrumental music from the Middle Ages to the Renaissance (900-1600) through investigation of iconographic data, notation and performance treatises. A major concert is presented at the end of the academic year.
NOTE   Open only to B.Mus. students.
PREREQUISITE   MUSC 295/1.5.
EXCLUSION   No more than 1 course from MUSC 395/1.5; MUSC 397/3.0.

MUSC 396/3.0  Introduction to Orchestration  
The examination of individual instruments in the string, woodwind, brass and percussion sections. Course includes score analysis, transcription, arranging and orchestration. A recommended course for B.Mus. composition students.
PREREQUISITE   MUSC 191 or permission of the School.

MUSC 397/3.0  The Collegium Musicum  
An historical performance practice course and ensemble, dealing with the performance and authentic performance practice traditions of vocal and instrumental music from the Middle Ages to the Renaissance (900-1600) through investigation of iconographic data, notation and performance treatises. A major concert is presented at the end of the academic year.
NOTE   Open only to non-B.Mus. students.
PREREQUISITE   MUSC 297/3.0.
EXCLUSION   No more than 1 course from MUSC 395/1.5; MUSC 397/3.0.

MUSC 398/3.0  Modal Counterpoint  
Study, through rule-based writing, of 16th century modal counterpoint, from two-part species exercises to free counterpoint in Renaissance style.
NOTE   Priority will be given to students who have not yet completed one of the counterpoint courses.
PREREQUISITE   MUSC 291/6.0 or permission of the School.

MUSC 399/3.0  Tonal Counterpoint  
Study, through composition, of the contrapuntal procedures of the 18th century, with an emphasis on J.S. Bach’s two-part inventions and fugues.
NOTE   Priority will be given to students who have not yet completed one of the counterpoint courses.
PREREQUISITE   MUSC 291/6.0 or permission of the School.

MUSC 420/6.0  Applied Study IV (Performance)  
Continuation of MUSC 320/6.0.
NOTE   B.Mus. students are charged a supplemental annual fee of $450 for one-hour applied instrument or voice lessons.
PREREQUISITES   A grade of B in both MUSC 320/6.0 and MUSC 325/6.0.
NOTE   Students who do not hold the prerequisite may audition for admission to this course. They must obtain a grade of A- in the jury examination component of MUSC 321/6.0 or MUSC 324/6.0 and receive recommendation of the jury.
COREQUISITE   MUSC 425/6.0.
EXCLUSION   No more than 6.0 units from MUSC 420/6.0; MUSC 421/6.0.
MUSC 421/6.0  Applied Study IV  1P
Continuation of MUSC 321/6.0.
NOTE  B.Mus. students are charged a supplemental annual fee of $450 for one-hour applied instrument or voice lessons.
PREREQUISITE  A grade of B- in (MUSC 320/6.0 or MUSC 321/6.0).
EXCLUSION  No more than 6.0 units from MUSC 420/6.0; MUSC 421/6.0.

MUSC 424/6.0  Applied Music  1P
Continuation of MUSC 324/6.0.
NOTE  Open to non-B.Mus. students only. In addition to the regular tuition fee, students are charged an additional fee ($1,500 in 2011-12, but subject to change) to cover the cost of private music lessons.
PREREQUISITES  MUSC 324/6.0 and permission of the School.
EXCLUSION  No more than 6.0 units from MUSC 420/6.0; MUSC 421/6.0; MUSC 424/6.0.

MUSC 425/6.0  Applied Study IV (Performance Recital)
Students will perform in a public recital in accordance with guidelines established by the School of Music.
COREQUISITE  MUSC 420/6.0.
EXCLUSION  No more than 6.0 units from MUSC 421/6.0; MUSC 425/6.0.

MUSC 428/3.0  Music Education Seminar  3L/S
Advanced study and synthesis of educational theories and practices in music introduced in music education courses. Students are expected to engage in independent and cooperative study of agreed upon topics.
PREREQUISITES  (MUSC 273/3.0 and MUSC 274/3.0 and [MUSC 332/3.0 or MUSC 336/3.0 or MUSC 338/3.0]) or permission of the School.

MUSC 439/3.0  Studies in Music Education: Creativity  3L
An exploration of creativity in music education broadly defined, e.g., classroom, applied studio, religious or community organizations. The focus is on research, theories and practices of musical creativity, including improvisation and aspects of composition.
PREREQUISITE  MUSC 153/6.0 or MUSC 255/6.0 or MUSC 320/6.0 or MUSC 321/6.0 or MUSC 324/6.0 or MUSC 328/3.0 or MUSC 393/3.0 or (MUSC 273/3.0 and MUSC 274/3.0).

MUSC 443/3.0  Introduction to Schenkerian Analysis  3L/S
The concepts and principles of a reductive/linear approach to the analysis of music named after its first proponent, Heinrich Schenker. Both theoretical and practical applications are studied.
COREQUISITE  MUSC 392/3.0.

MUSC 445/3.0  Topics in Advanced Analysis  3L/S
Intensive study of a particular style or method of analysis, usually of a specific musical genre. PREREQUISITE MUSC 392/3.0 or permission of the School.

MUSC 446/3.0  Advanced Analysis of 20th-Century Music  3L/S
Advanced study of an aspect of organization in 20th-century music through analysis of the repertoire and analytical readings.
PREREQUISITE  MUSC 392/3.0 or permission of the School.

MUSC 451/3.0  Acoustic Composition  3L/S
A continuation of MUSC 351/3.0, MUSC 354/6.0.
NOTE  In addition to the prerequisites, students must submit a portfolio of compositions to the School of Music Office by the last day of classes in the Winter Term. Admission is determined through evaluation of portfolios by a Faculty jury. Submission of a portfolio does not guarantee admission.
PREREQUISITES  MUSC 351/3.0 or MUSC 354/6.0.
MUSC 452/3.0  
**Electroacoustic Composition 2P**  
A continuation of MUSC 352/3.0, MUSC 355/6.0.  
**NOTE**  
Students must submit in writing to the School of Music Office their request to apply for this course by the last day of classes in the Winter Term.  
**PREREQUISITES**  
(MUSC 352/3.0 or MUSC 355/6.0 or MUSC 356/6.0) and permission of the School.

MUSC 454/6.0  
**Acoustic Composition**  
A continuation of MUSC 351/3.0, MUSC 354/6.0.  
**NOTE**  
In addition to the prerequisites, students must submit a portfolio of compositions to the School of Music Office by the last day of classes in the Winter Term. Admission is determined through evaluation of portfolios by a Faculty jury. Submission of a portfolio does not guarantee admission.  
**PREREQUISITES**  
MUSC 351/3.0 or MUSC 354/6.0.

MUSC 455/6.0  
**Electroacoustic Composition 2P**  
A continuation of MUSC 352/3.0, MUSC 355/6.0.  
**NOTE**  
Students must submit in writing to the School of Music Office their request to apply for this course by the last day of classes in the Winter Term.  
**PREREQUISITES**  
(MUSC 352/3.0 or MUSC 355/6.0 or MUSC 356/6.0) and permission of the School.

MUSC 460/1.5  
**Choral Ensemble**  
Choral ensemble experience for all students.  
**PREREQUISITE**  
MUSC 360/1.5.

MUSC 462/1.5  
**Symphony Orchestra**  
Ensemble experience for qualified players of orchestral instruments.  
**PREREQUISITE**  
MUSC 362/1.5.

MUSC 463/1.5  
**Unspecified Chamber Ensemble**  
Chamber music experience for qualified instrumentalists and singers.  
**PREREQUISITES**  
MUSC 363/1.5 and permission of the School.

MUSC 464/1.5  
**Polyhymnia**  
A small choir of approximately 30 women’s voices. For experienced choral singers.  
**PREREQUISITE**  
MUSC 364/1.5.

MUSC 465/1.5  
**Brass Choir**  
Ensemble experience for qualified brass performers.  
**PREREQUISITE**  
MUSC 365/1.5.

MUSC 466/1.5  
**Jazz Ensemble**  
An ensemble devoted to the performance of Big Band music. Ability to improvise in a jazz idiom preferred but not essential.  
**PREREQUISITE**  
MUSC 366/1.5.

MUSC 467/1.5  
**Jazz Choir**  
A mixed voice choir devoted to the performance of jazz vocal music. For students with choral music experience.  
**PREREQUISITE**  
MUSC 367/1.5.

MUSC 468/1.5  
**Clarinet Choir**  
Ensemble experience for qualified clarinetists.  
**PREREQUISITE**  
MUSC 368/1.5.

MUSC 469/1.5  
**Flute Choir**  
Ensemble experience for qualified flutists.  
**PREREQUISITE**  
MUSC 369/1.5.
MUSC 470/3.0  
**Topics in Music Education I**
Seminars offered by faculty related to their music education research/interests. Content varies year to year. See departmental brochure for further details.
PREREQUISITES  (MUSC 273/3.0 and MUSC 274/3.0 and [MUSC 332/3.0 or MUSC 336/3.0 or MUSC 338/3.0 or MUSC 436/3.0]) or permission of the School.

MUSC 471/3.0  
**Topics in Music Education II**
Seminars offered by faculty related to their music education research/interests. Content varies year to year. See departmental brochure for further details.
PREREQUISITES  (MUSC 273/3.0 and MUSC 274/3.0 and [MUSC 332/3.0 or MUSC 336/3.0 or MUSC 338/3.0 or MUSC 436/3.0]) or permission of the School.

MUSC 473/3.0  
**Directed Special Study I**
Advanced supervised study in a specific area of musicology/ethnomusicology, music theory/analysis or music education. Regulations pertaining to the courses are available in the School of Music Office.
PREREQUISITES  Level 4 and a GPA of 3.50 in MUSC at the 300-level and permission of the instructor and of the Chair of Undergraduate Studies.

MUSC 474/3.0  
**Directed Special Study II**
Advanced supervised study in a specific area of musicology/ethnomusicology, music theory/analysis or music education. Regulations pertaining to the courses are available in the School of Music Office.
PREREQUISITES  Level 4 and a GPA of 3.50 in MUSC at the 300-level and permission of the instructor and of the Chair of Undergraduate Studies.

MUSC 475/3.0  
**Special Topics in Music I**
An intensive analysis of a particular topic within a specific area of music: ethnomusicology, musicology or theory/analysis. Details regarding specific topics will be available from the School of Music on an annual basis.
PREREQUISITE  Level 3 or above and permission of the School.

MUSC 476/3.0  
**Special Topics in Music II**
An intensive analysis of a particular topic within a specific area of music: ethnomusicology, musicology or theory/analysis. Details regarding specific topics will be available from the School of Music on an annual basis.
PREREQUISITE  Level 3 or above and permission of the School.

MUSC 477/3.0  
**Special Topics in Music III**
An intensive analysis of a particular topic within a specific area of music: ethnomusicology, musicology or theory/analysis. Details regarding specific topics will be available from the School of Music on an annual basis.
PREREQUISITE  Level 3 or above and permission of the School.

MUSC 478/1.5  
**Wind Ensemble**
Ensemble experience for qualified players of wind and percussion instruments. Placement is made at the discretion of the School of Music.
PREREQUISITE  MUSC 378/1.5.

MUSC 479/1.5  
**Symphonic Band**
Ensemble experience for players of wind and percussion instruments. Placement is made at the discretion of the School of Music.
PREREQUISITE  MUSC 379/1.5.

MUSC 480/3.0  
**Genre Studies**
An intensive study of the development of a particular musical genre. Emphasis will be placed on the analysis of significant contributions to the genre and the place of the genre in the total cultural milieu of a given period. Content varies from year to year.
PREREQUISITES  (MUSC 291/6.0 and MUSC 103/3.0 and [MUSC 203/3.0 or MUSC 204/3.0 or MUSC 205/3.0]) or permission of the School.
MUSC 481/3.0  **Composer Studies**  3L/S
A detailed examination of the life, times and works of a particular composer. Content varies from year to year.
PREREQUISITES (MUSC 291/6.0 and MUSC 103/3.0 and [MUSC 203/3.0 or MUSC 204/3.0 or MUSC 205/3.0]) or permission of the School.

MUSC 485/3.0  **Introduction to Palaeography**  3L/S
A study of the theory and practice of musical notations from circa 1000 to circa 1600. Representative compositions from the mediaeval and Renaissance periods will be transcribed and considered in conjunction with contemporary theoretical writings. Discussions will focus on current scholarly views concerning the rhythmic interpretations of ambiguous notations.
PREREQUISITES (MUSC 103/3.0 and MUSC 205/3.0) or permission of the School.

MUSC 486/3.0  **Area Studies in Ethnomusicology**  3L/S
An intensive study of the music culture of a specific country or geographical area. PREREQUISITES (Level 3 or above and [MUSC 103/3.0 or MUSC 289/3.0]) or permission of the School.

MUSC 488/3.0  **North American Native Music**  3L/S
An intensive study of the music cultures of First Peoples in North America. Both traditional and non-traditional musics will be examined.
PREREQUISITES (Level 3 or above and [MUSC 103/3.0 or MUSC 289/3.0]) or permission of the School.

MUSC 495/1.5  **The Collegium Musicum**
An historical performance practice course and ensemble, dealing with the performance and authentic performance practice traditions of vocal and instrumental music from the Middle Ages to the Renaissance (900-1600) through investigation of iconographic data, notation and performance treatises. A major concert is presented at the end of the academic year.
NOTE Open only to B.Mus. students.
PREREQUISITE MUSC 395/1.5.
EXCLUSION No more than 1 course from MUSC 495/1.5; MUSC 497/3.0.

MUSC 497/3.0  **The Collegium Musicum**
An historical performance practice course and ensemble, dealing with the performance and authentic performance practice traditions of vocal and instrumental music from the Middle Ages to the Renaissance (900-1600) through investigation of iconographic data, notation and performance treatises. A major concert is presented at the end of the academic year.
NOTE Open only to non-B.Mus. students.
PREREQUISITES MUSC 397/3.0.
EXCLUSION No more than 1 course from MUSC 495/1.5; MUSC 497/3.0.

MUSC 592/6.0  **Honours Thesis**
A critical essay of at least 7500 words on a topic of the student’s choice in the field of musicology, ethnomusicology, or music theory and analysis, written under the supervision of a faculty member.
NOTE Students should consult the coordinator of the music history program or music theory program, preferably in the spring of their third year.
PREREQUISITE Level 4 and registration in a MUSC Major Plan.
COREQUISITE MUSC 385/3.0 or MUSC 386/3.0.
NSCI 323/3.0   Cellular Neuroscience   3L;1T
Fundamental properties of the nervous system. Emphasis placed on the properties of neurons that are fundamental to
neuron-to-neuron communication, the formation of neural circuits, and the repair of the nervous system following
injury. Tutorials introduce techniques and neurological problems that illustrate principles of neural function.
PREREQUISITE (PHGY 210/6.0 or PHGY 212/6.0 or PHGY 214/6.0 or BIOL 338/3.0 or BIOL 339/3.0 or PSYC
271/3.0) or permission of the course coordinator.
EXCLUSION No more than 3.0 units from NSCI 322/3.0; NSCI 323/3.0; LISC 322/3.0.

NSCI 324/3.0   Systems Neuroscience   3L;1T
Fundamental properties of the nervous system. Emphasis placed on the properties of neurons and neural circuits that
underlie behaviour and cognitive functions within selected neural systems, such as sensory, motor, reward, and
autonomic systems. Tutorials introduce techniques and neurological problems that illustrate principles of neural
function.
PREREQUISITE (PHGY 210/6.0 or PHGY 212/6.0 or PHGY 214/6.0 or BIOL 338/3.0 or PSYC 271/3.0, or
NSCI 323/3.0) and or permission of the course coordinator.
EXCLUSION No more than 3.0 units from NSCI 322/3.0; NSCI 324/3.0; LISC 322/3.0.

NSCI 401/3.0   Introduction to Theoretical Neuroscience   2L;1T/S
This course will provide an introduction to the main modelling approaches and theoretical concepts in Neuroscience.
The computational anatomy of the brain and how it implements perception, learning, memory, decision making and
motor control, among other topics, will be discussed.
RECOMMENDATION NSCI 323/3.0, NSCI 324/3.0, ANAT 312/3.0, PSYC 271/3.0. PREREQUISITES
(STAT 261/3.0 or STAT 263/3.0 or STAT 267/3.0 or STAT 367/3.0 or COMM 162/3.0 or ECON 250/3.0 or PSYC
202/3.0 or SOCY 211/3.0 or BIOL 243/3.0 or CHEM 209/3.0 or GPHY 247/3.0 or KNPE 251/3.0 or PHED 251/3.0
or POLS 385/3.0 or NURS 323/3.0) and Level 4 and (registration in a LISC Major or Specialization Plan) and (a
GPA of 2.5) or permission of course director.

NSCI 429/3.0   Disorders of the Nervous System   3L
A multi-disciplinary course exploring advanced concepts of clinical neuroscience. Topics include stroke, traumatic
brain and cord injuries, neurodegenerative disorders, epilepsy, schizophrenia, depression, deep brain stimulation,
pain and placebo effects, normal and abnormal aging, stem cells. Students will learn to critically evaluate scientific
literature and present these concepts to classmates during student-led seminars. Restricted to fourth-year students.
Enrolment is limited.
PREREQUISITE (NSCI 322/3.0 or NSCI 323/3.0 or NSCI 324/3.0 or ANAT 312/3.0 or PSYC 271/3.0) and Level
4 and (registration in a LISC Major or Specialization Plan) and (a GPA of 2.5) or permission of the course
coordinators.

NSCI 491/3.0   Directed Special Laboratory   6P
Laboratory course in a selected area of Neuroscience to be arranged in consultation with individual members of the
Centre for Neuroscience Studies. Course involves experimental design, data collection and analysis (approximately
6 hours of laboratory work per week required) as well as a brief communication of the laboratory work.
NOTE Students are limited to one NSCI 491/3.0 research project in Year 4.
NOTE Students whose research project requires the care and/or handling of animals must also register in LISC
488/0.0.
PREREQUISITES Availability of a supervisor and permission of the course coordinator; level 4 in the LISC
Specialization Plan, NSCI Sub-Plan.

NSCI 499/9.0   Research Project in Neuroscience   10P;2T
An investigation into a selected area of neuroscience. The research project involves experimental design, data
collection, and analysis, written report and oral presentation. Students will be required to attend seminars and
tutorials on topics related to research. Limited enrolment.
NOTE Students whose research requires the care and/or handling of animals must also register in LISC 488/0.0.
PREREQUISITES Level 4 in the LISC Specialization Plan and (a GPA of 2.5) and permission of the course
coordinator.
EXCLUSION No more than 9.0 units from ANAT 499/9.0; CANC 499/9.0; EPID 499/9.0; LISC 499/9.0; MICR
455/6.0; MICR 499/9.0; NSCI 499/9.0; PATH 499/9.0; PHAR 499/9.0; PHGY 499/9.0.
PACT P01/0.0  Aquatics  2P
This is a required non-credit course. Students must exhibit a technical proficiency in front crawl, elementary back stroke, side stroke, breast stroke, shallow dive, front dive from one-metre board, survival swimming, rescue, and resuscitation. Students may meet this requirement by producing current swimming qualifications at the RLSS Bronze Medallion level, or by passing the swim test.
NOTE    Students are strongly encouraged to complete this requirement by the end of Year 2.
PREREQUISITE    Registration in a PHED Specialization Plan.
EQUIVALENCY    PHED P01/0.0.

PACT 100/3.0  Fundamental Practicum in Physical Activity  1L/T;3P
This course will expose students to a wide variety of physical activities with the intent of learning fundamental pedagogical concepts relevant to structured (e.g. Physical Education) and unstructured (e.g. recreational) physical activity environments. Students will develop an activity lesson plan and effectively teach its content.
PREREQUISITE    Registration in a PHED Specialization Plan.
EQUIVALENCY    PHED 107/0.5.

PACT 200/3.0  Intermediate Practicum  3P/S
This course exposes students to a variety of physical activity pursuits for the purpose of acquiring fundamental knowledge and basic skill mastery in a breadth of activities. Students will gain an understanding of activity-specific skills, game tactics, basic instructional strategies, and feedback and evaluation methods. Students will complete four units: Games for Understanding, Team Sports, Recreational and Leisure Pursuits, and Fitness and Exercise Pursuits.
NOTE    Activity courses run the full year (FW) for a total of 72 contact hours.
PREREQUISITE    Registration in a PHED Specialization Plan and PACT 100/3.0.
EQUIVALENCY    PHED 207/0.0.

PACT 237/3.0  Practicum in Physical Activity for Children  4P/S
This activity-based course will allow students to lead the daily physical activity (DPA) program at local elementary schools. Students will learn how to design appropriate lesson plans, and then will have the opportunity to apply this knowledge and implement their program within the school system.
NOTE    Transportation and other costs (e.g. required Criminal Checks) are the responsibility of the student.
PREREQUISITES    PACT 100/3.0 and KNPE 237/3.0.
EXCLUSION    No more than 3.0 units from KNPE 237/3.0 (prior to 2011-12); PACT 237/3.0.

PACT 300/3.0  Advanced Practicum (Instruction)  3P/S
This advanced activity course will reinforce skill acquisition, introduce skill variation, and develop technical and tactical theory components for the purpose of instruction up to the senior high school level. Students are required to complete two rotations of sporting activities, usually basketball and volleyball.
PREREQUISITE    Level 3 or 4 in a PHED Specialization Plan.
EQUIVALENCY    PHED 307/0.0.

PACT 333/3.0  Practicum in Physical Activity for Persons with Disabilities  4P/S
This activity-based course will afford students the opportunity to work with community physical activity programs for persons with disabilities and relate class theory from KNPE 333 Physical Activity for Persons with Disabilities to practical implementation. Students will also have a weekly laboratory component.
NOTE    Transportation and other costs (e.g. required Criminal Checks) are the responsibility of the student.
PREREQUISITES    PACT 237/3.0 and KNPE 333/3.0.
EXCLUSION    No more than 3.0 units from KNPE 333/3.0 (prior to 2011-12); PACT 333/3.0.
PACT 335/3.0  Practicum in Physical Activity for Seniors  4P/S
This activity-based course will afford students the opportunity to work with community physical activity programs for the elderly and relate class theory from KNPE 335/3.0 Physical Activity for Seniors to practical implementation. Students will work in a variety of programs; including: aqua fitness, tai chi, cardiac health maintenance, seniors fitness classes, and so on.
NOTE Transportation and other costs (e.g. required Criminal Checks) are the responsibility of the student.
PREREQUISITES  PACT 237/3.0 and KNPE 335/3.0.

PACT 338/3.0  Outdoor Education
Theory and practice of warm weather camping and canoe tripping. Students spend one pre-term week learning a variety of camping and canoeing skills and application on an extended canoe trip.
NOTE The Camp School Aquatic Test is also required to register in this course.
PREREQUISITE  Level 3 or 4 in a PHED Specialization Plan and PACT P01/0.0.
EQUIVALENCY  PHED 338/0.0.

PACT 400/3.0  Advanced Practicum (Coaching)  2P;2S
Advanced practicum course that provides students with the required theory, technical and tactical knowledge to coach at the high school or youth club level. Students will focus on either volleyball or basketball in learning coaching techniques such as demonstration skills, error detection and correction skills as well as drill design and delivery. A community-based coaching experience may be required.
PREREQUISITES  (KNPE 203/3.0 or PHED 303/3.0 or PPHE 203/3.0) and (PACT 300/3.0 or PHED 307/3.0) and level 4 in a PHED Specialization Plan.

PACT 403/3.0  Intensive Coaching  1S;3P
A coaching internship designed to provide an opportunity to apply theoretical and technical knowledge in a coaching environment. Coaching opportunities vary year to year, subject to availability of an appropriate placement. The course is restricted to a maximum of 12 students. The course has a minimum requirement of 48 contact hours.
PREREQUISITES  PACT 100/3.0 and (KNPE 203/3.0 or PPHE 203/3.0) and permission of the supervisor and Undergraduate Coordinator in the School of Kinesiology and Health Studies.

PACT 438/3.0  Outdoor Education II
Theory and practice of winter camping, snowshoeing and ski touring. Students spend five days pre-term learning camping, snowshoeing and cross-country skiing skills and applications on a one-day extended tour.
PREREQUISITE  Level 3 or 4 in a PHED Specialization Plan
EQUIVALENCY  PHED 438/0.0.
PATH 310/3.0  Pathology and Molecular Medicine  3L/T
An introduction to pathology and molecular medicine. The course will be organized around a specific set of
diseases, designed to illustrate basic concepts in the molecular biology, biochemistry, and pathology of human
disease.
RECOMMENDATION  ANAT 215/3.0 and ANAT 216/3.0 and PHGY 212/6.0.
PREREQUISITE  MBIO 218/3.0.
COREQUISITES  BCHM 310/6.0 or (BCHM 315/3.0 and BCHM 316/3.0).
EQUIVALENCY  PATH 410/3.0.

PATH 425/3.0  Current Topics in Human Genetics  2L;2S
An advanced level course introducing current topics in human genetics. The course will focus on the significance
and implications of genetic variation and its role in disease, development and normal human diversity. In particular,
the course will explore the future directions and implications of human genetic research in the post genomic era.
Participation in seminars and group discussions is required. Enrolment is limited. Offered in Winter Term.
RECOMMENDATION  MBIO 218/3.0 or MBIO 318/3.0 or permission of the course coordinator.
PREREQUISITE  A minimum grade of B in BIOL 205/3.0. and Level 4 and (registration in a LISC Major or
Specialization Plan) and (a GPA of 2.5).
EXCLUSION  No more than 3.0 units from BIOL 441/3.0; PATH 425/3.0.

PATH 430/3.0  Molecular Basis of Disease  2L
An in-depth perspective of the pathogenesis of human disease. An integration of the genetic, biochemical,
physiologic, anatomic, and general etiologic factors which play a role in the progression of several specific diseases
from inception to death or recovery. The course will comprise short introductory presentations by teaching faculty
followed by the presentation and discussion of relevant scientific papers by students. Given jointly with PATH
826/3.0.
NOTE  Only undergraduates with an excellent performance in the prerequisite courses will be considered.
Undergraduates should contact the Department during the first week of January to confirm enrolment. Enrolment is
limited.
PREREQUISITE  PATH 310/3.0 or and Level 4 and (registration in a LISC Major or Specialization Plan) and (a
GPA of 2.5) or permission of the course coordinator.

PATH 499/9.0  Research Project in Pathology  10P;2T
A research project involving the study of human disease processes. The project will be supervised by a Faculty
member in the Department and will provide opportunities for experimental design, data analysis and both written
and oral presentation of results. Students must contact a potential faculty supervisor in the Spring preceding
registration in fourth year. NOTE  Enrolment is limited; restricted to fourth year honours; acceptance by a
supervisor required prior to registration.
NOTE  Students whose research requires the care and/or handling of animals must also register in LISC 488/0.0.
PREREQUISITE  Level 4 and (registration in a LISC Specialization Plan) and (a GPA of 2.5) or permission of the
course coordinator.
EXCLUSION  No more than 9.0 units from ANAT 499/9.0; CANC 499/9.0; EPID 499/9.0; LISC 499/9.0; MICR
455/6.0; MICR 499/9.0; NSCI 499/9.0; PATH 499/9.0; PHAR 499/9.0; PHGY 499/9.0.
PHAR 100/3.0  Introductory Pharmacology  3L
Topics covered include central nervous system stimulants and depressants, narcotics, alcohol, cardiovascular agents, contraceptives, environmental toxicants, mechanism of drug action and disposition, antibiotics, drugs used in sports, over-the-counter drugs, food additives, and vitamins.
NOTE    Also offered as a distance course. Consult Continuing and Distance Studies.
RECOMMENDATION   4U Biology
EXCLUSION    No more than 3.0 units from PHAR 100/3.0; PHAR 230/3.0.
ONE-WAY EXCLUSION    May not be taken with or after: PHAR 340/3.0; PHAR 450/3.0.

PHAR 230/3.0  Pharmacology for the Health Sciences  3L
Lecture series on the following topics: principles of drug action, autonomic pharmacology, cardiovascular-renal pharmacology, neuropsychopharmacology, chemotherapy, drugs acting on the endocrine system, over-the-counter drugs, and therapeutic applications.
NOTE    Given in Winter Term and concurrently with students in the School of Nursing.
COREQUISITE   PHGY 210/6.0 or PHGY 214/6.0 or KNPE 225/3.0 or KINE 225/3.0.
EXCLUSIONS    No more than 3.0 units from PHAR 100/3.0; PHAR 230/3.0.

PHAR 340/3.0  Principles of General Pharmacology I  3L;2T
Topics include: fundamental principles of drug action, autonomic nervous system pharmacology, and toxicology.
PREREQUISITE   (PHGY 210/6.0 or PHGY 212/6.0 or PHGY 214/6.0).
COREQUISITE   BCHM 310/6.0 or BCHM 315/3.0.
EXCLUSION    No more than 3.0 units from PHAR 340/3.0; PHAR 341/3.0.

PHAR 416/3.0  Xenobiotic Disposition and Toxicity  3L
An advanced study of chemical disposition and toxicity. Topics include toxicokinetics, biotransformation, metabolite-mediated toxicity, free radicals, the mechanism of action of toxicants, effects of toxicants on organ systems and a detailed examination of selected toxic agents.
NOTE    BCHM, BIOL and BMCO students should contact the department for permission to register in this course.
PREREQUISITES   (PHAR 340/3.0 or BCHM 310/6.0 or BCHM 316/3.0) and (Level 4 and (registration in a LISC Major or ELSC Specialization Plan) and (a GPA of 2.5).

PHAR 450/3.0  Principles of General Pharmacology II  3L;2T
Topics include: neuropsychopharmacology, cardiovascular pharmacology, agents acting on the endocrine system, and chemotherapy.
NOTE    This course involves team based learning sessions and a drug literature evaluation assignment.
PREREQUISITE   PHAR 340/3.0 and Level 4 and (registration in a LISC Major or Specialization Plan) and (a GPA of 2.5).

PHAR 499/9.0  Research Project in Pharmacology and Toxicology 10P;2T
An examination of the development and present state of knowledge in selected research areas of pharmacology and toxicology. Research project involves experimental design, data collection and analysis, written report and oral presentation. Students will be required to attend seminars and tutorials on topics related to research.
NOTE    Students whose research requires the care and/or handling of animals must also register in LISC 488/0.0.
PREREQUISITES   Level 4 and registration in a LISC or ELSC Specialization Plan and permission of the Department of Biomedical and Molecular Sciences.
EXCLUSION    No more than 9.0 units from ANAT 499/9.0; CANC 499/9.0; EPID 499/9.0; LISC 499/9.0; MICR 455/6.0; MICR 499/9.0; NSCI 499/9.0; PATH 499/9.0; PHAR 499/9.0; PHGY 499/9.0.
PHGY 210/6.0  Physiology for Health Sciences
The function of organs, body systems and the integration of functions in the whole body.
NOTE  Offered by e-learning in Summer Term. Consult Continuing and Distance Studies.
RECOMMENDATION  100-level BIOL course.
EXCLUSION  No more than 6.0 units from IDIS 150/6.0; KNPE 125/3.0; KNPE 225/3.0; PHGY 210/6.0; PHGY 212/6.0; PHGY 214/6.0.

PHGY 212/6.0  Physiology for the Life Sciences  3L;3P alt.wks.
The functions of organs, body systems and the integration of functions in the whole body. Includes laboratories where students carry out observations on themselves and animal tissues. PREREQUISITE  A GPA of 1.90 in BIOL 102/3.0 and BIOL 103/3.0, and registration in the LISC Specialization Plan.
EXCLUSION  No more than 6.0 units from IDIS 150/6.0; KNPE 125/3.0; KNPE 225/3.0; PHGY 210/6.0; PHGY 212/6.0; PHGY 214/6.0.

PHGY 214/6.0  Mammalian Physiology  3L
The function of organs, body systems, and the integration of functions in the whole body.
NOTE  Students in a KINE, HLTH, PHED or NURS Plan should not register in this course.
PREREQUISITE  A minimum GPA of 2.0 in BIOL 102/3.0 and BIOL 103/3.0, or permission of the instructor.
EXCLUSION  No more than 6.0 units from IDIS 150/6.0; KNPE 125/3.0; KNPE 225/3.0; PHGY 210/6.0; PHGY 212/6.0; PHGY 214/6.0.

PHGY 350/3.0  Pathophysiology  3L
An introductory course in Pathophysiology in which the underlying functional changes of cell and cell systems will be discussed in association with a variety of disease processes.
PREREQUISITE  PHGY 210/6.0 or PHGY 212/6.0 or PHGY 214/6.0 or IDIS 150/6.0.

PHGY 355/3.0  Biomedical Respiratory Physiology  3L;3P triweekly
An intermediate course focussing on biomedical applications of lung biology. Topics include lung mechanics, gas exchange, acid-base balance and control of breathing.
PREREQUISITE  PHGY 210/6.0 or PHGY 212/6.0 or PHGY 214/6.0.

PHGY 424/3.0  Ion Channels of Excitable Cells  3L/S
The electrophysiology and biophysics of neuronal and cardiac membranes; molecular biology, structure, and function of ion channels. Students will learn to critically evaluate scientific literature. Instructional format is primarily student-led seminars.
PREREQUISITE  (A minimum grade of C in: PHGY 210/6.0 or PHGY 212/6.0 or PHGY 214/6.0) and Level 4 and (registration in a LISC Major or Specialization Plan) and (a GPA of 2.5) or permission of the course coordinator.

PHGY 444/3.0  Gastrointestinal Physiology  1L;1S alt.wks.
The mechanisms and regulation of motor, secretory, digestive, and absorptive functions of the gastrointestinal tract are considered in lectures and seminars. Students are required to prepare and present reviews of original literature.
NOTE  The normal classroom time of 36 hours is spread over two terms.
PREREQUISITE  (A minimum grade of C in PHGY 210/6.0 or PHGY 212/6.0 or PHGY 214/6.0) and Level 4 and (registration in a LISC Major or Specialization Plan) and (a GPA of 2.5) or permission of the course coordinator.

PHGY 494/3.0  Neuroendocrinology  3S
Students are exposed to an in depth study of selected topics in neuroendocrinology and neuroendocrine techniques. Neuroendocrinology refers to the neural control of endocrine and autonomic function. Areas of focus will include central nervous system control of cardiovascular function, reproduction, and appetite. In addition, students will learn to critically evaluate scientific literature. Instructional format is primarily student led seminars.
PREREQUISITE  (A minimum grade of B in: PHGY 210/6.0 or PHGY 212/6.0 or PHGY 214/6.0) and Level 4 and (registration in a LISC Major or Specialization Plan) and (a GPA of 2.5) or permission of the course coordinator.
PHGY 499/9.0 Research Project in Physiology 10P;2T
An investigation in a selected area of physiology. The project involves experimental design, data collection and analysis, submission of written reports, and oral presentations. Students attend seminars/tutorials on related topics.
NOTE Students whose research requires the care and/or handling of animals must also register in LISC 488/0.0.
PREREQUISITE Level 4 and (registration in a LISC Specialization Plan) and (a GPA of 2.5) and permission of the Department of Biomedical and Molecular Sciences.
EXCLUSION No more than 9.0 units from ANAT 499/9.0; CANC 499/9.0; EPID 499/9.0; LISC 499/9.0; MICR 455/6.0; MICR 499/9.0; NSCI 499/9.0; PATH 499/9.0; PHAR 499/9.0; PHGY 499/9.0.
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<th>Course Code</th>
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| PHIL 111/6.0| Great Works of Philosophy          | 3L/S    | An introduction to philosophy through the examination of a number of classic philosophical works, with an evaluation of the positions and arguments offered in each.  
NOTE  Also offered at the Bader International Study Centre, Herstmonceux.  
EXCLUSION  No more than 1 course from PHIL 111/6.0; PHIL 127/6.0; PHIL 151/3.0. |
| PHIL 115/6.0| Fundamental Questions              | 3L/S    | Representative basic philosophical issues will be explored, such as: good and bad arguments, the source of moral obligation, the justification of knowledge claims, free will and determinism, the social enforcement of gender roles, taking responsibility for the environment, and the meaning of life. |
| PHIL 127/6.0| An Historical Introduction to Philosophy | 3L/S | A survey of some of the major figures, schools and themes in philosophy from ancient times to the present.  
EXCLUSION  No more than 1 course from PHIL 111/6.0; PHIL 127/6.0; PHIL 151/3.0. |
| PHIL 151/3.0| Great Works of Philosophy          | 3L      | An examination of some major milestones in the development of philosophical thought. The course will involve both the exposition of texts and discussion of the philosophical issues which they raise.  
EXCLUSION  No more than 1 course from PHIL 111/6.0; PHIL 127/6.0; PHIL 151/3.0. |
| PHIL 152/3.0| An Introduction to Metaphysics      | 3L/T    | An introduction to metaphysics from both classical and contemporary sources. The course considers such topics as space and time, motion and matter, and the nature of consciousness. |
| PHIL 153/3.0| The State and the Citizen           | 3L      | An introduction to political philosophy which explores the relationship between state and citizen. Issues include: civil disobedience, nationalism, the welfare state, anarchism and the capitalist state. |
| PHIL 154/3.0| Introductory Philosophy of Science  | 3L      | What is science? The course explores this question through considering such issues as the aims of science, the nature of scientific explanation, the status of laws of nature and scientific theories, the history of science and the nature of scientific progress. |
| PHIL 157/3.0| Moral Issues                        | 3L/S    | An introduction to ethics via an examination of controversial moral issues. Special topics: abortion; animal rights; euthanasia.  
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.  
NOTE  Also offered at the Bader International Study Centre, Herstmonceux. |
| PHIL 158/3.0| Critical Thinking                   | 3L/S    | A discussion of the general principles of reasonable discourse, with a focus on persuasive and cogent writing.  
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.  
NOTE  Also offered at the Bader International Study Centre, Herstmonceux. |
<p>| PHIL 159/3.0| Introduction to Ethics              | 3L      | An introduction to the major issues in theoretical ethics (as distinct from particular moral issues): the nature of good, evil, right and wrong, the virtues and vices, the human good. |
| PHIL 170/3.0| Minds and Machines                  | 3L      | A survey of the contribution of philosophy to the cognitive sciences. The focus will be on providing a synthesis of the different perspectives brought by each of the disciplines, in particular, cognitive psychology, computer science, neurophysics, and linguistics, through an investigation of how the various approaches ultimately frame and answer our questions about the mind. |</p>
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<tr>
<td>PHIL 201/3.0</td>
<td>Philosophy and Medicine</td>
<td>3L/S</td>
<td>The relationship between philosophical traditions and medical theory will be explored, as will the impact on philosophy of medical discoveries (such as anaesthesia and antibiotics) and diseases (such as the Black Death and AIDS). Emphasis is on concepts of disease from antiquity to the present.</td>
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<td>PREREQUISITE Completed 30.0 or more units.</td>
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<tr>
<td>PHIL 202/3.0</td>
<td>Philosophy of Peace</td>
<td>3L/S</td>
<td>Drawing from a number of sources and philosophical traditions, this course will explore the concept of peace, obstacles to peace, ideas that promote peace, the moral dimensions of peace, philosophies of nonviolence, pacifism, and attempts to envision a peaceful world.</td>
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<td>PREREQUISITE 6.0 units in PHIL.</td>
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<tr>
<td>PHIL 203/3.0</td>
<td>Science and Society</td>
<td>3L</td>
<td>Philosophical issues - both epistemological and ethical - involved in specific debates about the relationship between science and social issues. The course may focus, for instance, on recent ‘popular’ sociobiology efforts by biologists and others to establish scientific theories of human nature and human potential.</td>
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<td>PREREQUISITE 6.0 units in PHIL.</td>
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<tr>
<td>PHIL 204/3.0</td>
<td>Life, Death, and Meaning</td>
<td>3L</td>
<td>An examination of whether life has ‘meaning’, and a consideration of different philosophical interpretations of the meaning of life, the significance of death for the meaning of life, and whether it even makes sense to speak of life as having meaning.</td>
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<td>PREREQUISITE 6.0 units in PHIL.</td>
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<tr>
<td>PHIL 232/6.0</td>
<td>Greek Philosophy</td>
<td>3L/S</td>
<td>Greek philosophy from Thales to Plotinus, with special emphasis on the metaphysical and epistemological doctrines of Plato and Aristotle.</td>
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<td>PREREQUISITE A GPA of 2.60 in 6.0 units in PHIL or CLST.</td>
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<tr>
<td>PHIL 240/3.0</td>
<td>Philosophy of Education</td>
<td>3L</td>
<td>An examination of key issues and texts in the philosophy of education. Possible topics include the nature and aims of the learning process, progressive and conservative education, the politics of education, and contemporary debates regarding the canon.</td>
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<td>PREREQUISITE 6.0 units in PHIL.</td>
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<tr>
<td>PHIL 250/6.0</td>
<td>Epistemology and Metaphysics</td>
<td>3L/S</td>
<td>An examination of the development of central debates in epistemology and metaphysics from the early modern period to the present. Focusing on the work of thinkers like Descartes, Kant, Wittgenstein and Quine, such questions as the nature and justification of knowledge, mind and body, personhood and community, truth and meaning will be discussed.</td>
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<td>PREREQUISITE (A GPA of 2.60 in 6.0 units in PHIL) or (A grade of B- in 3.0 units in PHIL and Level 2 or above in a COGS Plan).</td>
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<td>PHIL 253/6.0</td>
<td>Political Philosophy</td>
<td>3L/S</td>
<td>A close examination of the key thinkers, concepts and frameworks of political philosophy. The course has two components: historeal, focusing on classical texts from Aristotle’s Politics to Mill’s On Liberty, and contemporary issues, such as justice rights, liberty, equality and discrimination.</td>
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<td>PREREQUISITE A GPA of 2.60 in 6.0 units in PHIL. EXCLUSION No more than 6.0 units from PHIL 253/6.0; POLS 250/6.0.</td>
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<td>PHIL 256/3.0</td>
<td>Existentialism</td>
<td>3L/S</td>
<td>Representative figures from Kierkegaard to de Beauvoir will be the focus of attention in this overview of the main ideas of existentialism, a vital movement in contemporary philosophy. The foundations of existential thought, its distinctive style of argumentation and its relationship to the perennial concerns of philosophy will be explored.</td>
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<td>PREREQUISITE 6.0 units in PHIL.</td>
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PHIL 257/6.0  Ethics  3L/S
A study of problems in moral and/or political philosophy from the ancient or early modern period to the present.
PREREQUISITE  A GPA of 2.60 in 6.0 units in PHIL.

PHIL 260/3.0  Philosophy of Logic and Language  3L/S
The nature of the subject matter of logic; relations between formal logic and natural language, e.g., grammar and truth in logic and language; ontological commitments; the work of Russell and Quine.
PREREQUISITE  6.0 units in PHIL or LING.

PHIL 261/3.0  Philosophy of Mathematics  3L/S
A discussion of some ontological and epistemological problems associated with mathematics.
PREREQUISITE  Completed 30.0 or more units.

PHIL 263/3.0  Philosophy of Religion  3L/S
A consideration of traditional and/or contemporary religious conceptions and arguments. Possible topics include: the nature and existence of God, and bases of religious claims.
PREREQUISITE  6.0 units in PHIL or RELS.

PHIL 264/3.0  Philosophy of Literature  3L/S
A broad introduction to philosophical method and the nature of philosophical issues through a consideration of philosophic assumptions and theses present in important literary works.
PREREQUISITE  Completed 30.0 or more units.

PHIL 272/3.0  Philosophy and Postmodernism  3L/S
An examination and comparison of Foucault’s and Rorty’s views: specifically, Foucault’s concept of ‘power’ and Rorty’s notion of legitimating practices, and assessment of whether they separately or jointly preclude or in the end only limit and qualify truth- and justification-claims.
PREREQUISITE  6.0 units in PHIL.

PHIL 273/3.0  Critical Perspectives on Social Diversity  3L
An introduction to philosophical issues regarding sexism, racism, ageism, homophobia, classism, imperialism and other forms of oppression.
NOTE  The course is intended to prepare students for upper level courses in feminist philosophy and the philosophy of culture.
PREREQUISITES  6.0 units in PHIL at the 100-level or permission of the Department.

PHIL 293/3.0  Ethics and Business  3L
An examination of the moral principles involved in the evaluation of business institutions, practices and decisions.
Sample topics include: liberty, efficiency and the free market ideal; the market and justice in distribution.
PREREQUISITE  Completed 60.0 or more units.
EXCLUSION  No more than 3.0 units from PHIL 303/3.0; COMM 338/3.0.
PHIL 307/3.0  Latin American and Caribbean Philosophy  3L
Specific topics in or traditions within Latin American and Caribbean Philosophy.
PREREQUISITE  Level 3 and 12.0 units in PHIL, ENGL, HIST, or POLS.

PHIL 310/3.0  Development Ethics  3L
This course examines philosophical issues in the field of Global Development, such as what is meant by
‘development’, ‘freedom’ and ‘quality of life’.
PREREQUISITE  Level 3 and 12.0 units in PHIL, ENGL, HIST, or POLS.

PHIL 311/3.0  Philosophy of Psychology  3L/S
A philosophical understanding of the background to psychology. Topics may include the nature of mental
representation, the place of ‘folk psychology,’ individualism in psychology, the nature of mental causation and
explanation.
PREREQUISITE  PHIL 250/6.0 or 12.0 units in PSYC or permission of the Department.

PHIL 316/3.0  Philosophy of Art  3S
A study of what is involved in enjoying, understanding and interpreting works of art, and of the place of the arts in
human culture. Writings of artists and critics, as well as those of philosophers, will be used.
PREREQUISITE  (12.0 units in PHIL of which 6.0 units in PHIL must be at the 200-level or above) or (18.0 units
in ARTF; ARTH; DRAM; ENGL; FILM; MUSC).

PHIL 318/3.0  Philosophy of Law  3L/S
A survey of the central issues in the philosophy of law including a consideration of current jurisprudential
controversies about the nature of law and philosophical treatments of problems arising from within the law such as
paternalism, privacy, responsibility, and civil liberties.
PREREQUISITE  Completed 60.0 or more units.

PHIL 324/3.0  African Philosophy  3L
This course offers an introduction to African philosophical thought. After dealing with metatheoretical questions
about the nature of philosophy and the philosophical inquirer, the focus will shift to African views on topics such as
truth, the concept of a person, art, morality, slavery and colonialism.
PREREQUISITE  Completed 60.0 or more units.

PHIL 328/3.0  Ancient Philosophy  2L;1S
A study of selected topics in ancient philosophy.
PREREQUISITE  (PHIL 232/6.0 or PHIL 250/6.0 or PHIL 257/6.0) or (6.0 units in PHIL and Level 3 or above in
a CLST Major or Medial Plan) or permission of the Department.

PHIL 329/3.0  Early Modern Philosophy  2L;3P
A study of selected topics in early modern philosophy.
PREREQUISITE  PHIL 250/6.0 or PHIL 257/6.0 or permission of the Department.

PHIL 330/3.0  Investigations in the History of Philosophy  2L;3P
An examination of perennial topics and/or important authors and schools of thought within the History of
Philosophy. While the course will target material that has proven important to contemporary thinking, the emphasis
will be on understanding the topics/authors/movements within their historical milieu.
PREREQUISITE  PHIL 250/6.0 or PHIL 257/6.0 or permission of the Department.

PHIL 335/3.0  Introduction to Kant  3L/S
An examination of the Critique of Pure Reason.
PREREQUISITE  PHIL 250/6.0 or permission of the Department.
PHIL 343/3.0  Social and Political Philosophy  3S
An examination of some of the principles and theories to which appeal is commonly made when social institutions and practices (and the policies associated with their establishment and maintenance) are subjected to critical scrutiny.
PREREQUISITE  PHIL 257/6.0 or permission of the Department.

PHIL 347/3.0  Contemporary Moral Philosophy  3L/S
A critical survey of some recent trends in moral philosophy. Study will begin with the emotive theory of ethics, and end with very recent works of importance in the field.
PREREQUISITE  PHIL 257/6.0 or permission of the Department.

PHIL 348/3.0  Freedom of the Will  2L;3P
An examination of the concept of freedom of the will, with emphasis on the problems generated by causation and the notion of responsibility.
PREREQUISITE  PHIL 250/6.0 or PHIL 257/6.0 or permission of the Department.

PHIL 351/3.0  Philosophy of Mind  3L
A discussion of concepts and issues in the philosophy of mind. Sample topics include identity, action, emotion, intention, belief and desire.
PREREQUISITE  PHIL 250/6.0 or permission of the Department.

PHIL 352/3.0  Metaphysics  3L/S
The nature and varieties of metaphysics, including rationalistic ‘Platonist’ and empirical/descriptive ‘Aristotelian’ approaches. Positivistic and pragmatic anti-metaphysical ‘critiques’ and verificationism. Contemporary analytical metaphysics after Quine and Strawson.
PREREQUISITE  PHIL 250/6.0 or permission of the Department.

PHIL 359/3.0  Philosophy of Language  3L/S
Central issues include: the distinction between language and speech; the syntax/semantics/pragmatics trio; reference, denoting, names and descriptions; meaning, truth and verifiability; realism and anti-realism; linguistic forms of pragmatism, behaviourism, idealism, etc.
PREREQUISITE  PHIL 250/6.0 or permission of the Department.

PHIL 361/3.0  Introduction to Logic  3L/S
From propositional calculus to first-order monadic predicate calculus. Symbolization, rules of inference, derivation and refutation of arguments.
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE  A GPA of 2.60 in 6.0 units in PHIL.
ONE-WAY EXCLUSION  May not be taken with or after: CISC 204/3.0.

PHIL 362/3.0  Further Studies in Logic  2L;3P
From first-order monadic predicate calculus to polyadic predicate calculus with identity. Symbolization, rules of inference, derivation and refutation of arguments. Introduction to modal logics.
PREREQUISITE  PHIL 361/3.0 or ELEC 270/3.0.

PHIL 367/3.0  Jewish Philosophy  3L
An examination of key Jewish thought from Philo to Fackenheim, exploring such themes as the relationship between philosophy, literature, law, and religion; developments within Jewish philosophy; non-Jewish influences on Jewish thought and vice-versa. Contributions to contemporary philosophical work such as those in bioethics and postmodernism may also be considered.
PREREQUISITE  6.0 units in PHIL or JWST, or permission of the Department.
EQUIVALENCY  PHIL 267/3.0.
PHIL 376/3.0  Philosophy and Feminism  3L/S
An introduction to topics and issues in feminist philosophy. The influence of feminist perspectives on the framing and study of philosophical problems, and the contribution of philosophy to the development of feminist theory and practice will be central concerns. This course can be counted towards a minor, major or medial concentration in Gender Studies.
PREREQUISITES  (12.0 units in (PHIL; GNDS) including 6.0 units in (PHIL; GNDS) at the 200-level or above) or permission of the Department.

PHIL 381/3.0  Philosophy of the Natural Sciences  3L/S
Topics may include the nature of scientific method; the meaning of laws of nature; theoretical entities; scientific explanation; causality, induction, and probability.
PREREQUISITE  Completed 60.0 or more units.

PHIL 402/3.0  Current Issues in Moral Philosophy I  3S
An examination of major issues in contemporary moral philosophy. Topics to be studied may include contractualism, objectivity, practical reason, relativism and value realism.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 403/3.0  Current Issues in Moral Philosophy II  3S
An examination of major issues in contemporary moral philosophy. Topics to be studied may include contractualism, objectivity, practical reason, relativism and value realism.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 405/3.0  Current Issues in Social and Political Philosophy I  3S
An examination of major issues in contemporary social and political philosophy. Possible topics to be studied include communitarianism, liberalism, multi-culturalism, the nation-state, and utopias.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 406/3.0  Current Issues in Social and Political Philosophy II  3S
An examination of major issues in contemporary social and political philosophy. Possible topics to be studied include communitarianism, liberalism, multi-culturalism, the nation-state, and utopias.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 407/3.0  Current Issues in Social and Political Philosophy III  3S
An examination of major issues in contemporary social and political philosophy. Possible topics to be studied include communitarianism, liberalism, multi-culturalism, the nation-state, and utopias.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 408/3.0  Topics in Philosophy of Law  3S
An examination of major issues in the philosophy of law. Possible topics to be studies include definitional questions, interpretivism, positivism, punishment and the relationship between law and morality.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 410/3.0  Topics in the History of Philosophy  3S
This course examines issues and theorists in the History of Philosophy. Possible topics include the nature of substance, explanation, causality, rights and obligations, primary and secondary qualities. Possible theorists include, Descartes, Spinoza, Hegel, Frege.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).
PHIL 412/3.0  Topics in Philosophy of Culture  3S
An examination of major issues in the philosophy of culture. Possible topics to be studied include: the history of the philosophy of culture; the relationship between culture and identity or the self; the relationship between culture and progress; and various forms of cultural relativism.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 420/3.0  Ethical Issues I  3S
An examination of major issues in ethics. Possible topics to be considered include political violence, coercion, punishment, immigration, suicide, drug policy, leisure and *akrasia*.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 421/3.0  Ethical Issues II  3S
An examination of major issues in ethics. Possible topics to be considered include political violence, coercion, punishment, immigration, suicide, drug policy, leisure and *akrasia*.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 431/3.0  Ancient Philosophy I  3S
An examination of major issues in ancient philosophy. Possible topics to be considered include the appearance/reality distinction, causation, the emotions, happiness (eudaimonia) and substance.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 432/3.0  Ancient Philosophy II  3S
An examination of major issues in ancient philosophy. Possible topics to be considered include the appearance/reality distinction, causation, the emotions, happiness (eudaimonia) and substance.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 435/3.0  Modern Philosophy  3S
An examination of major issues in modern philosophy. Possible topics to be considered include arguments for the existence of God, causation, happiness, representationalism, scepticism and substance.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 436/3.0  19th Century Philosophy  3S
An examination of major issues in 19th century philosophy. Possible topics to be studied include post-Kantian German philosophy, phenomenalism, the philosophy of history, the rise of pragmatism, and the rise of modern logic.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 441/3.0  20th Century Philosophy I  3S
An examination of major issues in 20th century philosophy. Possible topics to be studied include debates about modality, the development of logic, the natural language movement, pragmatism and verificationism.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 442/3.0  20th Century Philosophy II  3S
An examination of major issues in 20th century philosophy. Possible topics to be studied include debates about modality, the development of logic, the natural language movement, pragmatism and verificationism.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan.
PHIL 445/3.0  Major Figures I  3S
An examination of the key ideas from a major figure in the history of philosophy. Philosophers studied will vary from offering-to-offering, including Aristotle, Aquinas, Kant, Mill and Rawls.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 446/3.0  Major Figures II  3S
An examination of the key ideas from a major figure in the history of philosophy. Philosophers studied will vary from offering-to-offering, including Aristotle, Aquinas, Kant, Mill and Rawls.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 447/3.0  Major Figures III  3S
An examination of the key ideas from a major figure in the history of philosophy. Philosophers studied will vary from offering-to-offering, including Aristotle, Aquinas, Kant, Mill and Rawls.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 451/3.0  Current Issues in Epistemology  3S
An examination of major issues in contemporary epistemology. Possible topics include justification, internalism and externalism, foundationalism and coherentism, and social epistemology.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 452/3.0  Current Issues in Metaphysics I  3S
An examination of major issues in contemporary metaphysics. Possible topics include causation, properties, time, modal theory, and induction.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 454/3.0  Topics in Feminist Philosophy  3S
This course examines issues in Feminist Philosophy. Possible topics may include gender and sex; feminist ethics, epistemologies and metaphysics; disputes about essentialism; the intersections of gender, sexuality, racialization, imperialism, and class.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan or (level 4 and registration in a GNDS Major Plan) and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 459/3.0  Current Issues in Philosophy of Language I  3S
An examination of major issues in contemporary philosophy of language. Possible topics to be studied include: the nature of meaning; the relationship between language and the mind, as well as language and the world; and the syntax, semantics and pragmatics of natural language.
PREREQUISITES  (Level 4 and registration in a PHIL Major or Medial Plan) or (level 4 and registration in a LING Major Plan) and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 460/3.0  Current Issues in Philosophy of Language II  3S
An examination of major issues in contemporary philosophy of language. Possible topics to be studied include: the nature of meaning; the relationship between language and the mind, as well as language and the world; and the syntax, semantics and pragmatics of natural language.
PREREQUISITES  (Level 4 and registration in a PHIL Major or Medial Plan) or (level 4 and registration in a LING Major Plan) and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 463/3.0  Current Issues in Metaphysics II  3S
An examination of major issues in contemporary metaphysics. Possible topics include causation, properties, time, modal theory, and induction.
PREREQUISITE  Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).
PHIL 464/3.0  
**Topics in Philosophy of Mind**  
3S  
An examination of major issues in contemporary philosophy of mind. Possible topics to be considered include: consciousness; definitional questions (what is the mind?); mental causation; mental events; mental properties; and various theories about the nature of the mind.  
PREREQUISITE Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 466/3.0  
**Topics in the Philosophy of Art**  
3S  
An examination of major issues in the philosophy of art. Possible topics include: the definition of art, art and the emotions, art and interpretation, art and the aesthetic, and the philosophy of particular artforms (i.e., literature, film).  
PREREQUISITE Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 467/3.0  
**Hermeneutics**  
3S  
An examination of major issues in hermeneutics or the theory of interpretation. Possible topics to be studied include the history of hermeneutics, objectivity and relativism, critiques of ideology, semiotics, and pragmatism.  
PREREQUISITE Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 470/3.0  
**Topics in Philosophy in Science**  
3S  
An examination of major issues in the philosophy of science. Possible topics to be considered include explanation, realism versus instrumentalism, scientific progress, the social dimensions of science and the unity of the sciences.  
PREREQUISITE Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 471/3.0  
**Current Issues in Medical Epistemology**  
3S  
An examination of epistemic issues arising from or pertaining to medicine. Possible topics to be considered include the nature of disease, concepts of scientific discovery as found in medicine, and the relationship between medical research and clinical practice.  
PREREQUISITE Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 473/3.0  
**Philosophical Logic**  
3S  
An examination of major issues in the philosophy of logic. Possible topics to be considered include deviant logics, the nature of identity, modal logics and the paradoxes of material implication and strict conditionals.  
PREREQUISITES PHIL 361/3.0 and PHIL 362/3.0.

PHIL 488/3.0  
**Pragmatism**  
3S  
In this study of pragmatist thought, authors to be considered may include classical pragmatists such as Pierce, James and Dewey as well as contemporary pragmatists such as Quine and Rorty.  
PREREQUISITE Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 493/3.0  
**Ethics and the Environment**  
3S  
This course examines issues in Ethics and the Environment. Possible topics include sustainable development, humans and nature, moral obligations to future generations.  
PREREQUISITE Level 4 and registration in a PHIL Major or Medial Plan or (level 4 and registration in a ENVS Medial Plan or ENSC Major plan or ENSC, EGPY, EBIO, ECHM, ECEO, ELSC or ETOX Specialization Plan) and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).

PHIL 497/3.0  
**Ethics and Animals**  
3S  
This course examines issues in Ethics and Animals. Potential topics include animal rights, human consumption and other uses of non-human animals, the domestication of non-human animals.  
PREREQUISITE Level 4 and registration in a PHIL Major or Medial Plan or (level 4 and registration in a ENVS Medial Plan or ENSC Major plan or ENSC, EGPY, EBIO, ECHM, ECEO, ELSC or ETOX Specialization Plan) and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL).
PHIL 500/6.0  Directed Special Studies
This course involves a directed study of a philosophical topic. Topics chosen may be from any area of philosophy, and should be determined in consultation with a proposed supervising instructor.
PREREQUISITE    Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL) and permission of the Department.

PHIL 510/3.0  Directed Special Studies
This course involves a directed study of a philosophical topic. Topics chosen may be from any area of philosophy, and should be determined in consultation with a proposed supervising instructor.
PREREQUISITE    Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL) and permission of the Department.

PHIL 511/3.0  Directed Special Studies
This course involves a directed study of a philosophical topic. Topics chosen may be from any area of philosophy, and should be determined in consultation with a proposed supervising instructor.
PREREQUISITE    Level 4 and registration in a PHIL Major or Medial Plan and (a minimum GPA of 2.60 in PHIL 250/6.0 and PHIL 257/6.0) and (6.0 units in PHIL) and permission of the Department.
PHYS P10/3.0  Fundamental Concepts in Physics for Teachers  3L;1P
A course relevant to those interested in teaching. Activity based learning of fundamental physics topics typically taught in elementary and secondary schools. Topics include: motion, forces, energy, heat, electricity and magnetism, and light. Students will be required to teach a one hour enrichment class, once a week for 10 weeks, to Grade 7 or 8 students in a local school.
NOTE  Students may incur transportation costs, expected to be no more than $50. This course may not be included in any plan in Physics.

PHYS P15/3.0  Astronomy I: The Solar System  3L/P
A non mathematical introduction to the science of astronomy for non specialist students. Topics to be covered include the fundamentals of astronomy; an introduction to the tools and techniques of modern observational astronomy; the historical development of our understanding of the Earth, Moon and Solar System; space exploration of Mars, Jupiter, and other planets; the nature of the Sun; and the origin and uniqueness of our Solar System.
NOTE  Also offered at the Bader International Study Centre, Herstmonceux.

PHYS P16/3.0  Astronomy II: The Active Universe  3L/P
This course, intended for non specialist students, will provide an overview of astronomy beyond the Solar System. Topics will include: the formation, nature, and evolution of the stars; stellar deaths, including novae, supernovae, white dwarfs, neutron stars, pulsars, and black holes; the interstellar medium; the Milky Way Galaxy; normal and active galaxies and large scale structure in the universe; and modern ideas in cosmology and the early universe.
PREREQUISITE  PHYS P15/3.0 or permission of the Department.

PHYS P20/3.0  Physicists in the Nuclear Age  3L
For those interested in the impact of science on our century. Modern physics, especially nuclear physics, will be introduced by emphasizing the personalities, thoughts and writings of key scientists such as Bohr, Einstein and Rutherford and the ways in which they related to and shaped their political, scientific and social environments. Enrolment is limited.
NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.

PHYS 104/6.0  Fundamental Physics  3L;3P
Mechanics, including systems of particles and rigid body motion; gravitation; fluids; electricity and magnetism; oscillatory motion and waves; topics in modern physics. The material is presented at a more fundamental level appropriate for students who are seeking a deeper appreciation of physics, and who may be considering a concentration in Physics.
RECOMMENDATION  A grade of C- in 4U Physics.
COREQUISITE  MATH 120/6.0 or MATH 121/6.0 or (MATH 123/3.0 and MATH 124/3.0)
EXCLUSIONS  No more than 6.0 units from PHYS 104/6.0; PHYS 106/6.0; PHYS 107/6.0; PHYS 117/6.0.

PHYS 106/6.0  General Physics  3L;3P
Mechanics, including systems of particles and rigid body motion; fluids; electricity and magnetism; oscillatory motion and waves; heat, light and sound; topics in modern physics. Aspects of physics useful for further work in other sciences will be emphasized.
RECOMMENDATION  A grade of C- in 4U Physics is required
COREQUISITE  MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0 or (MATH 123/3.0 and MATH 124/3.0)
EXCLUSIONS  No more than 6.0 units from PHYS 104/6.0; PHYS 106/6.0; PHYS 107/6.0; PHYS 117/6.0.

PHYS 117/6.0  Introductory Physics  3L;3P
Primarily for students in the biological and life sciences. Topics include: kinematics, mechanics, and energy; heat, heat transfer and temperature; fluid flow; electricity and magnetism; oscillations and wave motion; sound; light and optics; atoms and nuclei. The application of physics to biological systems will be emphasized.
RECOMMENDATION  4U Physics or equivalent and 4U or equivalent in mathematics required.
EXCLUSIONS  No more than 6.0 units from PHYS 104/6.0, PHYS 106/6.0; PHYS 117/6.0.
EQUIVALENCY  PHYS 107/6.0
PHYS 206/3.0  Dynamics  3L;1T
An introductory course in classical dynamics of particles, of rigid bodies and of fluids that sets the foundation for more advanced work. Topics include kinematics of particles and of rigid bodies, central forces, kinetics of systems of particles, planar and three dimensional dynamics of rigid bodies and an introduction to fluid mechanics.
RECOMMENDATION  A minimum grade of C in PHYS 104/6.0 or PHYS 106/6.0.
PREREQUISITES  (PHYS 104/6.0 or PHYS 106/6.0) and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0).

PHYS 212/3.0  Waves and Vibrations  3L;1T
Fundamentals of free, damped and forced vibrations with applications to various mechanical systems. Coupled oscillations and normal modes. Classical wave equation, standing and travelling waves. Continuum mechanics of solid bodies; elasticity theory with applications. Introduction to optics: image formation and optical instruments.
PREREQUISITE  PHYS 206/3.0.

PHYS 214/3.0  Planets and Life  3L
A course in planetary astronomy intended for students in the life sciences, earth sciences and chemistry who have taken a suitable first year course. Topics may include the solar system, the origin of life on Earth, other planets and planetary systems, extra terrestrial life.
PREREQUISITE  (PHYS 104/6.0 or PHYS 106/6.0 or PHYS 107/6.0 or PHYS 117/6.0 or CHEM 112/6.0 or CHEM 116/6.0) or permission of the Department.

PHYS 216/3.0  Introduction to Astrophysics  3L;1T/P
Broad overview of basic laws of gravitation, radiation, and relativity: history and evolution of modern astronomy; ground and space based astronomy; the physics and evolution of stars; the milky way; galaxies in the universe; and cosmology. This course also uses the on campus observatory at an introductory level.
PREREQUISITES  (PHYS 104/6.0 or PHYS 106/6.0) and (MATH 120/6.0 or MATH 121/6.0 or MATH 122/6.0), or permission of the Department.

PHYS 239/3.0  Electromagnetism  3L;1T
The experimental basis and mathematical description of electrostatics, magnetostatics and electromagnetic induction, together with a discussion of the properties of dielectrics and ferromagnetics, are presented. Both the integral and vector forms of Maxwell’s equations are deduced.
RECOMMENDATION  A minimum grade of C in PHYS 104/6.0 or PHYS 106/6.0.
PREREQUISITES  (PHYS 104/6.0 or PHYS 106/6.0) and (MATH 221/3.0 or MATH 227/3.0 or MATH 280/3.0).

PHYS 242/3.0  Relativity and Quanta  3L;1T
Evidence for relativistic effects. Kinematics and dynamics in special relativity, space time diagrams, applications. Evidence for quanta, spectra, Bohr atom. Introduction to the Schroedinger equation.
RECOMMENDATION  A minimum grade of C in PHYS 104/6.0 or PHYS 106/6.0.
PREREQUISITE  PHYS 104/6.0 or PHYS 106/6.0.

PHYS 250/3.0  Foundations of Experimental Physics  1L;3P
Laboratory and lecture course that presents techniques and skills that are the foundations of experimental physics. Topics include statistical analysis of data, uncertainties in measurement, propagation of errors, software for data analysis, graphing and reporting. Students will be exposed to techniques in the measurement of electric, magnetic, thermal and mechanical properties. Laboratories also illustrate some principles of quantum physics, mechanics, electromagnetism and thermodynamics learned in other physics courses. Some exposure to computerized data acquisition is included.
PREREQUISITE  PHYS 104/6.0 or PHYS 106/6.0.
COREQUISITE  PHYS 206/3.0 or PHYS 242/3.0.
PHYS 312/6.0  Mathematical Methods in Physics  3L;1T
Methods of mathematics important for physicists. Function of a complex variable, contour integration, partial
differential equations, orthogonal functions, Green functions, Fourier series, Fourier and Laplace transforms, finite
difference methods, numerical solution of ordinary and partial differential equations.
PREREQUISITES  PHYS 212/3.0 and (MATH 221/3.0 or MATH 227/3.0 or MATH 280/3.0) and (MATH
231/3.0 or MATH 232/3.0).
EXCLUSIONS  No more than 6.0 units from MATH 334/3.0; MATH 335/3.0 (formerly MATH 236/3.0); PHYS
312/6.0.

PHYS 313/3.0  Computational Methods in Physics  2L; 2P
Introduction to Linux and a programming language. Foundations and limitations of numerical calculations. Code
development, debugging, optimization and profiling. Algorithms and techniques used in physics problems. Possible
topics to be covered include numerical differentiation and integration, root finding and optimization problems,
solution of linear systems of equations, Monte Carlo simulations, symbolic computation.
PREREQUISITES  (PHYS 212/3.0 and PHYS 239/3.0) and (MATH 221/3.0 or MATH 280/3.0) and (MATH
232/3.0 or MATH 231/3.0).
EXCLUSIONS  No more than 3.0 units from: CISC 271/3.0; MATH 272/3.0; PHYS 313/3.0.

PHYS 315/3.0  Physical Processes in Astrophysics  3L;1T/P
This course relates observable quantities to the physical properties of astronomical sources thereby deciphering the
varied nature of the cosmos. Basic physical processes in astrophysics are discussed and applied to diverse systems
including planets, stars, the interstellar medium and distant galaxies. Topics include radiative transfer and the
perturbation of the signal by instruments, the atmosphere, and the interstellar medium. The main astrophysical
emission processes, both continuum and line, are also presented. An evening project using the on campus
observatory will be carried out during the term.
PREREQUISITES  PHYS 216/3.0 and PHYS 242/3.0, or permission of the Department.

PHYS 321/3.0  Advanced Mechanics  3L;1T
An introduction to the equations of mechanics using the Lagrange formalism and to the calculus of variations
leading to Hamilton’s principle. The concepts developed in this course are applied to problems ranging from purely
theoretical constructs to practical applications. Links to quantum mechanics and extensions to continuous systems
are developed.
PREREQUISITES  PHYS 212/3.0 and (MATH 221/3.0 or MATH 227/3.0 or MATH 280/3.0) and (MATH
231/3.0 or MATH 232/3.0).

PHYS 334/3.0  Electronics for Applied Scientists  2L;3P
The design of electronic circuits and systems, using commonly available devices and integrated circuits. The
properties of linear circuits are discussed with particular reference to the applications of feedback; operational
amplifiers are introduced as fundamental building blocks. Digital circuits are examined and the properties of the
commonly available I.C. types are studied; their use in measurement, control and signal analysis is outlined.
Laboratory work is closely linked with lectures and provides practical experience in the subjects covered in lectures.
PREREQUISITE  PHYS 239/3.0.

PHYS 344/3.0  Introduction to Quantum Mechanics  3L;1T
dimensional potentials. Particle tunnelling and scattering states. Introduction to matrix mechanics and Dirac
notation: the simple harmonic oscillator and angular momentum.
PREREQUISITES  PHYS 212/3.0 and PHYS 242/3.0 and (MATH 221/3.0 or MATH 280/3.0) and (MATH
232/3.0 or MATH 231/3.0).
EQUIVALENCY  PHYS 343/3.0.
PHYS 345/3.0  Quantum Physics of Atoms, Nuclei and Particles  3L;1T
Quantum mechanical treatment of two and three dimensional systems. The hydrogen atom. Spin. Many electron
atoms and the periodic table. Introduction to perturbation theory and Fermi’s golden rule. Introduction to nuclear
and particle physics.
PREREQUISITE  PHYS 344/3.0.
EQUIVALENCY  PHYS 424/3.0.

PHYS 350/3.0  General Laboratory  3P
Experiments in heat, optics, electron physics, quantum physics, and radioactivity are performed. A substantial part
of the course is an experimental project during the Winter Term. A topic for the experimental physics, or
observational astronomy project will be assigned after discussion with the student.
PREREQUISITES  PHYS 239/3.0 and PHYS 242/3.0 and PHYS 250/3.0.

PHYS 372/3.0  Thermodynamics  3L;1T
Temperature, equations of state, internal energy, first and second laws, entropy and response functions. Application
to heat engines and refrigerators. Free energies, Legendre transformations, changes of phase. Introduction to the
Boltzmann factor and statistical mechanics.
PREREQUISITE  PHYS 242/3.0.
EXCLUSION  No more than 3.0 units from PHYS 274/3.0; PHYS 372/3.0.

PHYS 414/3.0  Introduction to General Relativity  3L
Einstein’s theory of gravity is developed from fundamental principles to a level which enables the student to read
some of the current literature. Includes an introduction to computer algebra, an essential element of a modern
introduction to Einstein’s theory.
PREREQUISITES  PHYS 321/3.0 and (PHYS 312/6.0 or MATH 334/3.0).

PHYS 422/3.0  Fluid Mechanics  3L;1T
A survey of the physics of fluids. The fundamental principles and the range of validity of the usual approximation
methods are stressed. Topics include a study of incompressible flow, both laminar and turbulent, boundary layers,
stratified flow and waves, with a brief introduction to gas dynamics, magnetohydrodynamics and plasma physics.
PREREQUISITE  PHYS 312/6.0 or MATH 334/3.0.

PHYS 432/3.0  Electromagnetic Theory  3L
Electromagnetic theory and applications. Topics include: Maxwell’s equations, gauge theory, relativistic
transformations of Maxwell’s equations, properties of waves in free space, dielectrics, conductors and ionized
media, reflection and refraction at the surfaces of various media, propagation in metallic and dielectric waveguides,
radiation of electromagnetic waves from charged particles and antennae.
PREREQUISITES  PHYS 239/3.0 and (MATH 221/3.0 or MATH 280/3.0) and (MATH 232/3.0 or MATH
231/3.0).
EQUIVALENCY  PHYS 332/3.0.

PHYS 435/3.0  Stellar Structure and Evolution  3L
This course provides a detailed account of the formation, structure, evolution and endpoints of stars. Topics include
the HR diagram, nuclear energy generation, radiative transport and stellar model building, supernovae, white dwarfs,
neutron stars, pulsars and black holes.
PREREQUISITE  PHYS 315/3.0.

PHYS 444/3.0  Advanced Quantum Physics  3L
This course covers perturbation theory, scattering theory and the addition of angular momentum. Special topics may
include: many electron systems, path integral formulation of quantum mechanics, entanglement and quantum
computing, quantum optics.
PREREQUISITE  PHYS 345/3.0.
EQUIVALENCY  PHYS 426/3.0.
PHYS 453/3.0  Specialist Physics Laboratory  6P  
To provide students in the SSP degree programs with experience in a range of advanced experiments and techniques. Four experiments are performed selected from, for example, pure and applied nuclear physics, Mössbauer spectroscopy, fluid mechanics, optics, magnetic resonance, quantum effects in the solid state, superconductivity, and superfluidity.  
PREREQUISITES  PHYS 350/3.0 and (PHYS 344/3.0 or PHYS 343/3.0 or CHEM 313/3.0).  
EXCLUSION  No more than 1 course from PHYS 453/3.0; PHYS 450/6.0.  

PHYS 460/3.0  Laser Optics  3L  
Topics and applications in modern physical optics, culminating with the development of the laser and its current applications. Topics include: Gaussian beam propagation, optical resonators, Fourier optics, fiber optics, holography, light matter interaction using classical and semi classical models, and the basic theory and types of lasers.  
PREREQUISITES  PHYS 239/3.0 and (PHYS 344/3.0 or PHYS 343/3.0 or CHEM 313/3.0).  
COREQUISITE  PHYS 432/3.0 or PHYS 332/3.0.  

PHYS 472/3.0  Statistical Mechanics  3L;1T  
Phase space, the ergodic hypothesis and ensemble theory. Canonical and grand canonical ensembles. Partition functions. Ideal quantum gases. Classical gases and the liquid vapour transition. Introduction to techniques for interacting systems, including Monte Carlo simulations.  
PREREQUISITES  PHYS 313/3.0 and PHYS 344/3.0 and PHYS 372/3.0.  
EXCLUSION  No more than 3.0 units from: CHEM 412/3.0; PHYS 472/3.0.  

PHYS 480/3.0  Solid State Physics  3L  
A fundamental treatment of the properties of solids. Topics include: crystal structure, X ray and neutron scattering, the reciprocal lattice, phonons, electronic energy bands, and the thermal, magnetic, optical and transport properties of solids.  
PREREQUISITES  PHYS 345/3.0 or CHEM 313/3.0 

PHYS 483/3.0  Nanoscience and Nanotechnology  3L;1T  
An examination of the key ideas, techniques and technologies in the fields of nanoscience and nanotechnology. Emphasis will be placed on the physics involved, measurement techniques, and technological applications. Topics covered are selected from the following: electrical and optical properties of quantum dots, quantum wires and nanotubes; quantum information technology; mesoscopic electronics; nanostructures on surfaces; and scanning probe and optical microscopy.  
PREREQUISITES  (PHYS 345/3.0 or PHYS 343/3.0 or CHEM 313/3.0) and (PHYS 380/3.0 or PHYS 335/3.0 or PHYS 480/3.0) or permission of the Department.  

PHYS 487/3.0  Surface Engineering and Analysis  3L  
An outline of the fundamental concepts and applications of modern techniques for the production and analysis of surfaces and thin films. Topics include ultra high vacuum, surface adsorption, surface crystallography, electron and ion microscopy and spectroscopy, electron and x ray diffraction, scanning probe microscopy, and growth of thin films by vapour deposition.  
PREREQUISITE  (PHYS 345/3.0 or PHYS 343/3.0 or CHEM 313/3.0) or permission of the Department.  

PHYS 490/3.0  Nuclear and Particle Physics  3L  
A systematic introduction to nuclear and particle physics for advanced physics students. Topics include basic nuclear properties: size, mass, decay and reactions; shell model of nuclear structure; magnetic moments; gamma and beta decay; quark model of elementary particles; and strong, electromagnetic and weak interactions.  
PREREQUISITE  PHYS 345/3.0 or PHYS 424/3.0.  

PHYS 491/3.0  Physics of Nuclear Reactors  3L;1T  
The objective of this course is the understanding of the fundamental physics associated with a nuclear reactor. Topics include a brief review of basic nuclear physics, neutron interactions and cross sections, neutron diffusion, neutron moderation, theory of reactors, changes in reactivity, control of reactors. Offered in alternate years.  
COREQUISITE  PHYS 350/3.0.
**PHYS 495/3.0  Introduction to Medical Physics  3L**
Topics include: the production and measurement of X rays and charged particles for radiation therapy and nuclear medicine; interactions of radiation with matter and biological materials; interaction coefficients and radiation dosimetry; radiation safety; physics of medical imaging with examples from nuclear medicine, ultrasound and magnetic resonance imaging.
PREREQUISITES (PHYS 344/3.0 or PHYS 343/3.0) and (PHYS 312/6.0 or MATH 338/3.0) and (PHYS 350/3.0 or PHYS 352/3.0).

**PHYS 590/6.0  Research Thesis  9P**
Investigation of a contemporary research topic in physics or astronomy under the supervision of a faculty member, and leading to a written thesis and an oral presentation of results.
PREREQUISITES Level 4 in a PHYS, ASPH or MAPH Plan.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Hours</th>
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<tbody>
<tr>
<td>POLS 110/6.0</td>
<td>Introduction to Politics and Government</td>
<td>2L;1T</td>
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<tr>
<td></td>
<td>An introduction to political science that provides both a framework for thinking about politics and the institutions of governance, and some of the vocabulary necessary for political analysis.</td>
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<td>NOTE Also offered at the Bader International Study Centre, Herstmonceux.</td>
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<tr>
<td>POLS 211/3.0</td>
<td>Canadian Government</td>
<td>2L;1T</td>
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<td>An examination of the institutions and constitutional foundations of government and politics in Canada. Offered annually.</td>
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<td>PREREQUISITE POLS 110/6.0.</td>
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<tr>
<td>POLS 212/3.0</td>
<td>Canadian Politics</td>
<td>2L;1T</td>
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<td>An analysis of the processes, groups, parties, voters, and culture of Canadian politics. Offered annually.</td>
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<td>PREREQUISITE POLS 110/6.0.</td>
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<tr>
<td>POLS 230/3.0</td>
<td>American Elections</td>
<td>2L;1T</td>
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<td>This course provides a general introduction to the institutions and politics of the electoral process in the United States. The course integrates literature on the electoral system (including the system of primary elections), campaign financing, political parties, voting behaviour, political sociology, and political communication.</td>
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<td>PREREQUISITES POLS 110/6.0.</td>
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<td>POLS 241/3.0</td>
<td>Comparative Politics: Transformations</td>
<td>2L;1T</td>
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<td>An examination of how and why societies change and the context in which transformation occurs. Offered annually.</td>
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<td>PREREQUISITE POLS 110/6.0.</td>
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<td>EXCLUSION No more than 3.0 units from POLS 241/3.0 (2006/07); POLS 243/6.0.</td>
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<tr>
<td>POLS 242/3.0</td>
<td>Comparative Politics: Contemporary Regimes</td>
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<td>The nature of political regimes in advanced industrial countries and the developing world. Offered annually.</td>
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<td>PREREQUISITE POLS 110/6.0.</td>
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<tr>
<td>POLS 243/3.0</td>
<td>Comparative Politics: States and Nations</td>
<td>2L;1T</td>
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<td>A comparative examination of the ways in which selected polities respond to national, ethnic, linguistic, religious, and racial diversity.</td>
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<td>PREREQUISITE POLS 110/6.0.</td>
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<td>EXCLUSION No more than 3.0 units from POLS 241/3.0 (2006/07); POLS 243/3.0.</td>
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<tr>
<td>POLS 244/3.0</td>
<td>Comparative Politics: Democracy and Democratization</td>
<td>2L;1T</td>
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<td>A comparative exploration of the apparent disjuncture between the normative assumptions of liberal democratic theory and the realities of democracy-building.</td>
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<td>PREREQUISITE POLS 110/6.0.</td>
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<tr>
<td>POLS 250/6.0</td>
<td>Political Theory</td>
<td>2L;1T</td>
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<td>A survey of the principal ideas of Western political theorists from ancient to modern times, focusing in particular on the role and scope of government; the proper organization of governmental power; the nature of political obligation; and the ethics of political power and authority. Offered annually.</td>
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<td>PREREQUISITE POLS 110/6.0.</td>
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<td>EXCLUSION No more than 6.0 units from PHIL 253/6.0; POLS 250/6.0.</td>
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<td>POLS 251/3.0</td>
<td>Political Ideologies</td>
<td>2L;1T</td>
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<td>This course introduces students to a range of contemporary ideologies, such as liberalism, socialism, conservativism, fascism, feminism, anarchism, ecologism, fundamentalism, and nationalism. It includes primary and secondary readings, and will focus on the critical interpretation of these competing belief systems.</td>
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<td>PREREQUISITE POLS 110/6.0.</td>
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<tr>
<td>POLS 261/3.0</td>
<td>International Politics</td>
<td>2L;1T</td>
<td>An introduction to the major issues in the study of international relations: questions of war and peace, national security, the role of the ‘state’, foreign and defence policy, gender and international relations, and international institutions. PREREQUISITE POLS 110/6.0.</td>
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<tr>
<td>POLS 262/3.0</td>
<td>International Political Economy</td>
<td>2L;1T</td>
<td>An introduction to the major issues in the study of international political economy, including transnationalism, integration, globalization, and underdevelopment. PREREQUISITE POLS 110/6.0.</td>
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<tr>
<td>POLS 263/3.0</td>
<td>Introduction to International Security</td>
<td>2L;1T</td>
<td>This course introduces students to current theoretical and policy debates about the nature of ‘international security.’ In addition to addressing the meaning of this contested concept, we will examine three principal ways in which security has been organized by states, specifically: collective security, collective defence, and security communities. PREREQUISITE POLS 110/6.0.</td>
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<tr>
<td>POLS 264/3.0</td>
<td>World Politics in Historical Perspective</td>
<td>2L;1T</td>
<td>This course examines the evolution of global politics in the modern era, from the institutionalization of sovereignty in the Peace of Westphalia to the contemporary period. PREREQUISITE POLS 110/6.0.</td>
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<tr>
<td>POLS 280/3.0</td>
<td>Introduction to Women, Gender and Politics</td>
<td>2L;1T</td>
<td>This course analyzes the status of women and men in domestic and global politics. It presents primary concepts used in political science to address: What is gender? How is it political? How have the women’s movement and other collectivities addressed inequality and oppression? What does gender equality look like, and how can it be obtained? PREREQUISITE POLS 110/6.0. EXCLUSION No more than 3.0 units from POLS 280/3.0; POLS 382/3.0 (prior to 2008/09).</td>
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<tr>
<td>POLS 310/3.0</td>
<td>Principles of the Canadian Constitution</td>
<td>3L</td>
<td>An examination of the evolution of constitutional principles in Canada. Topics include developments in federal-provincial relations, the role of the courts in federal-provincial disputes, and the nexus between the community values of federalism and the individual rights in the Canadian Charter of Rights and Freedoms. PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.</td>
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<tr>
<td>POLS 312/3.0</td>
<td>Political Behaviour</td>
<td>3L</td>
<td>This course provides an introduction to the principal theoretical perspectives and empirical debates in the study of elections, voting, public opinion, political participation and political culture in established democracies. PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.</td>
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<tr>
<td>POLS 313/3.0</td>
<td>Mass Media and Politics in Canada</td>
<td>3L</td>
<td>A critical examination of the relationship between the mass media and politics, focusing on the functions of the media in modern liberal democracies and the ways in which news stories are created and packaged. PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.</td>
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<tr>
<td>POLS 317/3.0</td>
<td>Charter Politics</td>
<td>3L</td>
<td>How courts are responding to their responsibility to review legislative and executive decisions in terms of their impact on citizens; the impact of the Charter on the way government is viewed. PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.</td>
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</table>
POLS 318/3.0  The Canadian Welfare State  3L
An examination of the character and functions of the Canadian welfare state. Theoretical explanations of the welfare state. The historical development of the Canadian welfare state. Proposals for social policy reform and their implications. Offered in alternate years.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.
EXCLUSION  No more than 1 course from: GNDS 421/6.0; POLS 318/3.0; WMNS 421/3.0.

POLS 319/3.0  Public Discourse in Canada: Issues and Debates  3L
An introduction to Canadian political thinkers who have addressed important themes in contemporary Canadian public, legal and theoretical discourse, including multiculturalism, critical race theory, antipornography campaigns, sexual violence, globalization and modern alienation.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 320/3.0  First Nations Politics  3L
An examination of First Nations politics in a Canadian context, including aboriginal self-government.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 327/3.0  Topics in Comparative Politics  3L
An examination of key issues in comparative politics. Topics will vary from year to year; consult department homepage.
NOTE  Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 328/3.0  Topics in European Politics  3L
An examination of key issues in European politics. Topics will vary from year to year; consult the department homepage.
NOTE  Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 329/3.0  European Politics  3L
An introduction to European politics. The themes and geographic focus vary from year to year; they may include current political institutions and forces, the historical evolution of the European polities, and both Western and Eastern Europe.
NOTE  Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 331/3.0  American Government  3L
Survey of the political process in the United States; functioning and interaction of the principal formal and informal political institutions, the relationship between those institutions and their environment, the making of public policy, and current issues and trends.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 332/3.0  Post-Communist Politics  3L
The politics of the Russian Federation and selected countries of Central and Eastern Europe.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.
POLS 335/3.0  Topics in British Politics  3L
An examination of key issues in British politics. Topics will vary from year to year; consult the department homepage.
NOTE  Offered only at the Bader International Study Centre, Herstmonceux.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 336/3.0  British Politics  3L
Contemporary problems facing Britain as a result of its historical evolution: economic stagnation, centrifugal forces of nationalism and communal violence, and the decline of the two-party system.
NOTE  Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 338/3.0  European Integration  3L
An examination of the European union and the forces towards integration: origin, politics and future.
NOTE  Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 341/3.0  Chinese Politics  3L
The course begins with an historical overview of the late Qing dynasty, the origins of the Chinese revolution, and 50 years of the People’s Republic of China. It then focuses primarily on political science concepts and approaches to the study of Chinese politics as well as issues of reform in various sectors of China’s economy and polity.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 342/3.0  Latin American Politics  3L
Comparative study of Latin American politics. Topics include the political legacies of colonialism and independence, the evolution of class structures, populism, the role of the military, and the transition to democracy and free market policies. Emphasis is on the countries of continental South America.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 346/3.0  Development Theory  3L
A critical examination of the current theories of development influenced by various post-Marxist, postmodernist and postcolonial tendencies. Growth strategies practised by the state and alternative visions offered by the social movements will also be discussed.
NOTE  Students with third-year standing in the Development Studies Medial should contact the Department.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.
EXCLUSION  No more than 3.0 units from: DEVS 340/3.0; POLS 346/3.0.

POLS 347/3.0  The Politics of Africa  3L
Major issues in the contemporary politics and political economy of sub-Saharan Africa. The development of the colonial and post-colonial state, capitalist development and the role of indigenous and international capital, and political and socio-economic aspects of class, ethnicity and gender.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 348/3.0  Middle East Politics  3L
An examination of the politics of the Middle East, including the legacy of the Ottoman Empire and European colonialism, the rise of nationalism, the role of religion, the nature of the state and political participation in different countries in the region.
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.
POLS 351/3.0 Liberal Theory
An examination of the major theories and critiques of liberalism, focusing on the rical conceptions of freedom and equality that animate classical ‘laissez-faire’ liberalism, egalitarian liberalism, left-libertarianism, and perfectionist liberalism, and the critical responses these various kinds of liberalism have provoked from communications, feminists, Marxists, and others.
PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 352/3.0 Women and the History of Political Thought
Drawing on historical texts, this course explores the representations of women and the constructions of femininity and masculinity, the body, and gender relations in the history of political thought, and explores contemporary feminist responses to these texts and ideas.
PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 353/3.0 History of Political Thought
An analysis of the origin and development of certain major ideas in the western political tradition.
PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 354/3.0 Democratic Theory
An exploration of the normative underpinnings of democracy, based on a survey of selected historical texts, contemporary theories, and current problems.
PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 358/3.0 Critical Perspectives on Contemporary Capitalism
Selected topics in the critique of capitalism, e.g. Marxism, democracy, the environment, globalization, employment and popular culture.
NOTE Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 361/3.0 Regional International Organization
A survey of selected regional international organizations for political cooperation, military security and economic integration in Europe, Latin America, Africa and the Asia-Pacific region.
PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 364/3.0 International Peace and Security
An examination of the concept of international security and the causes of war and conditions of peace. Topics include: the role of nuclear weapons after the Cold War; the economics of security; new security themes (environmental and ethnic factors); regional security and peacekeeping; alliance dynamics; and European security and the future of NATO.
PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 366/3.0 The United Nations
An examination of the principles, institutions and politics of the United Nations, assessing its effectiveness in maintaining international peace and promoting cooperation among states.
PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.
POLS 367/3.0  American Foreign Policy  3L
An examination of American foreign policy, with particular emphasis on the analysis of concepts and issues and the study of decision-making processes.
PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 369/3.0  Canadian Foreign Policy  3L
An analysis of Canadian foreign policy, its major objectives and orientations. Topics covered include Canada’s role and interests in major international organizations and its relations with key countries and regions.
PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 382/3.0  Women and Politics  3L
Topics include theoretical perspectives on women and politics, patterns of women’s political socialization and political action, feminist movements, and feminist contributions to contemporary political discourse.
PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.
EXCLUSION No more than 3.0 units from POLS 280/3.0; POLS 382/3.0 (prior to 2008/09).

POLS 385/3.0  Quantitative Approaches to Political Studies  3L/T
An introduction to the role of quantitative analysis, statistical software and computers in empirical political research. The operationalization of concepts, the collection of data, data analysis, the logic and uses of statistical techniques, and the political assumptions that form the basis of much statistical work and philosophical debate. Minimal mathematical background is assumed.
PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.
EXCLUSION No more than 3.0 units from BIOL 243/3.0; CHEE 209/3.0; COMM 162/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0 (formerly PHED 251/3.0); NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 261/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0.

POLS 386/3.0  Political Economy and Mass Media  3L
An examination of the history and political economy of the mass media, exploring the impact of a partisan press, ownership and use of technology on how our identity has been shaped. It will draw upon a comparative assessment of the mass media in advanced liberal democracies.
NOTE Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITES (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.
POLS 387/3.0  
**Politics and Culture**  
3L  
The course explores contemporary approaches to understanding the politics of culture. In the everyday behaviours, attitudes and practices that form our culture, politics play a role. The course considers a range of diverse theoretical perspectives on the interrelationship of culture with social, political, and economic power.  
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 388/3.0  
**Citizenship and Non-Citizenship**  
3L  
Focusing on issues of citizenship and non-citizenship in the modern world. How issues of nationality and nationalism, minority rights, gender, class, race and ethnicity, and immigration status impact on the rights and obligations of citizenship and central to the politics of these debates. The relevance of these issues to the current Canadian context will be an ongoing theme of the course.  
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.  
EQUIVALENCY  POLS 446/3.0.

POLS 391/3.0  
**Introduction to Electoral Systems**  
3L  
This course introduces students to the various families of electoral systems in use around the world. It examines their variations and assesses the consequences of electoral systems on political parties, legislatures and governments.  
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.  
EXCLUSION  No more than 3.0 units from POLS 391/3.0; POLS 393/3.0 (2008/09 – 2009/10).

POLS 392/3.0  
**Topics in Canadian Politics**  
3L  
An examination of selected aspects of Canadian politics and government, including institutions and behavioural approaches. The focus of this course will vary from year to year; consult the departmental website for further details.  
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 393/3.0  
**Topics in Comparative Politics**  
3L  
A comparative examination of the politics and government of different countries, or theories or themes in comparative politics. The focus of this course will vary from year to year; consult the departmental website for further details.  
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.  
EXCLUSION  No more than 3.0 units from POLS 391/3.0; POLS 393/3.0 (2008/09 – 2009/10).

POLS 394/3.0  
**Topics in Political Theory**  
3L  
An exploration of different aspects of political thought, political theory, and political philosophy. The focus of this course will vary from year to year; consult the departmental website for further details.  
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 395/3.0  
**Topics in International Political Economy**  
3L  
An examination of different topics and issues in global political economy, such as the role of international financial institutions, the politics of global trade, or the global distribution of wealth. The focus of this course will vary from year to year; consult the departmental website for further details.  
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 396/3.0  
**Topics in International Relations**  
3L  
Issues in global politics, international relations, international diplomacy, or foreign policy will be examined in this course. The focus of this course will vary from year to year; consult the departmental homepage for further details.  
PREREQUISITES  (12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.
POLS 397/3.0  
Topics in Gender and Politics  
3L  
An investigation of selected problems in feminist and gender analysis, examining the different authors and issues.  
The focus of this course will vary from year to year; consult the departmental website for further details.  
PREREQUISITES  
(12.0 units in POLS at the 200-level or above) and (a grade of C in 6.0 units in POLS at the 200-level), or permission of the Department.

POLS 400/3.0  
Seminar in Political Science  
3S  
This seminar will examine key texts in the discipline of political science. The focus of this course will vary from year to year.  
See the departmental website for further details.  
PREREQUISITES  
Level 4 and (registration in a POLS Major or Medial Plan) and POLS250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).  
EXCLUSION  
No more than 3.0 units from POLS 400/3.0 (2008/09 – 2009/10); POLS 402/3.0.

POLS 401/3.0  
Political Theory: Questions & Challenges  
3S  
This course will consider various theoretical writings and topics in political science. The focus of this course will vary from year to year.  
Consult the departmental website for further details.  
PREREQUISITES  
Level 4 and (registration in a POLS Major or Medial Plan) and POLS250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 402/3.0  
Science and Justice  
3L  
The word ‘science’ comes from the Latin scientia, which means ‘having knowledge’. What is the relation between science and normative political ideals such as democracy, justice and equality? The topics covered in any given year will vary, but may include the ethical, legal and social consequences of advances in the biomedical or environmental sciences.  
PREREQUISITES  
Level 4 and (registration in a POLS Major or Medial Plan) and POLS250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).  
EXCLUSION  
No more than 3.0 units from POLS 400/3.0 (2008/09 – 2009/10); POLS 402/3.0.

POLS 403/3.0  
Gender Politics: Questions & Challenges  
3S  
An investigation of selected issues in gender analysis, considering a variety of perspectives and case studies. The focus of this course will vary from year to year. Consult the departmental website for further details.  
PREREQUISITES  
Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 404/3.0  
Canadian Politics: Questions & Challenges  
3S  
An examination of key issues in Canadian Politics. Topics will vary from year to year; consult the departmental website for further details.  
PREREQUISITES  
Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 405/3.0  
International Relations: Questions & Challenges  
3S  
Issues in global politics, international relations, international diplomacy, or foreign policy will be examined in this course. The focus of this course will vary from year to year; consult the departmental homepage for further details.  
PREREQUISITES  
Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 406/3.0  
Comparative Politics: Questions & Challenges  
3S  
A comparative examination of the politics and government of different countries, theories or themes in comparative politics. The focus of this course will vary from year to year. Consult the departmental website for further details.  
PREREQUISITES  
Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).
POLS 410/3.0  Seminar in Canadian Politics  3S
An examination of key issues in Canadian politics. Topics will vary from year to year; consult the departmental website for further details.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 412/3.0  Seminar in Provincial Politics  3S
Content varies from year to year; consult the departmental website for further details.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 414/3.0  Politics in Quebec  3S
An introduction to the political history of Quebec: the development of ideologies (including nationalism), constitutional developments, and the building of the Quebec state during the Quiet Revolution. Some contemporary issues in Quebec politics, and the relationship between Quebec and the rest of Canada.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 415/3.0  Canadian Federalism  3S
An examination of the evolution and operation of the Canadian federal system. Topics include the concept and meaning of federalism, the implications of provincial/federal interdependence, and the politics of constitutional reform.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 419/3.0  Political Communication  3S
A critical examination of the rhetoric of political persuasion, the framing and construction of political messages and the way in which meaning is interpreted and created in the political system. The mass media are an important, though not exclusive, focus of this course.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 421/3.0  Elections  3S
An examination of the importance of elections to the maintenance of democratic systems. Six themes are discussed: the history and theory of democratic participation; the legal framework; campaign organization; why people vote the way they do; the manifestation of social cleavages during campaigns; and the future of electoral participation. Canadian examples are placed in a comparative context.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 422/3.0  Public Opinion  3S
This course provides an extensive survey of the principal theoretical perspectives and empirical debates in the study of public opinion.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 430/3.0  Seminar in Comparative Politics  3S
Topics vary from year to year, and may include class, ethnic, and regional politics, law and politics, interests and interest articulation, and democracy and democratization. Consult the departmental homepage.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).
EXCLUSION  No more than 3.0 units from POLS 434/3.0; POLS 430/3.0 (2008/09 - 2009/10).
POLS 431/3.0  European Politics  3S
Multi-level politics in Europe: the European Union and its member states. Development of the EU, institutions and policy processes at the EU level, how the domestic politics of European states affects the EU and vice-versa. Economic union, supranationalism, political impulsion for economic integration, accession of new member states.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 432/3.0  The Modern Welfare State  3S
An exploration of the emergence and functioning of the modern welfare state in comparative perspective.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 433/3.0  Problems of American Democracy  3S
Focuses on recent debates about the sources of malaise in the American system, with a special emphasis on understanding the dynamics of mass public opinion and the factors influencing public disaffection from political institutions.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 434/3.0  Multiculturalism  3S
This course explores the political implications of multiculturalism from a variety of perspectives, including theory, policy, and historical meaning. Issues include: history and policy of multiculturalism in the Canadian, US and global contexts; the construction of ‘race’ and anti-racism; and the role of multiculturalism in citizenship inclusion and exclusion.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).
EXCLUSION  No more than 3.0 units from POLS 434/3.0; POLS 430/3.0 (2008/09 - 2009/10).

POLS 439/3.0  Seminar in American Politics  3S
Focus varies from year to year depending on the research interests of the faculty members involved. See the departmental homepage for further details.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).
EQUIVALENCY  POLS 495/3.0.

POLS 440/3.0  The Politics of Ethnicity and Nationalism  3S
An exploration of the causes of ethnic conflict, but focuses in particular on the strategies which states use to manage or resolve such conflicts. The review of state strategies is comprehensive in nature: using case studies, it includes approaches which are morally unacceptable as well as approaches which many consider morally desirable.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 442/3.0  Seminar in Latin American Politics  3S
Advanced research course focusing on problems relating to the consolidation of democracy in contemporary Latin America. Topics may include political parties and elections, economic policy, mass media, social movements, and political violence. Case studies are drawn largely from continental South America.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 443/3.0  Gender and Globalization  3S
General issues and selected specific topics reflecting an interdisciplinary approach combining international political economy, feminist theory and comparative politics. Case studies from both industrialized and developing nations.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).
POLS 445/3.0  Dialectics of Development  3S
A critical examination of selected ‘new’ theories of development (neo-Marxism, postmodernism, new social movements, rational choice, flexible specialization, etc.), followed by a study of selected Asian countries’ development strategies to evaluate the relevance of the theories.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 450/3.0  Political Theory: Appeals to Human Nature  3S
An analysis of texts that take the nature of humans as the basis for political argument. Emphasis is on the search for foundations for political claims and the nature of 20th-century relativism, cultural and moral.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 451/3.0  Seminar in Political Theory  3S
An examination of key issues in political theory. Topics will vary from year to year; consult the departmental homepage.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 453/3.0  Modern Political Philosophy  3S
An examination of a particular problem or theme in Western political thought post-1500; issues covered might include property, revolution, sovereignty, republicanism, or gender.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 456/3.0  Theories of Identity Politics  3S
An investigation into different theoretical perspectives on the issue of ‘identity’ and the import of these perspectives for the ‘politics of identity’. Theories of gender, race, class, nation, and sexual orientation, from a variety of perspectives, including Marxist, feminist, postmodern, and psychoanalytic theory.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 457/3.0  Issues in Global Justice  3S
An exploration of issues in international politics from a theoretical and normative perspective, including global redistributive justice, just war theory, theories of secession, and normative theories of humanitarian intervention. Among the questions posed are whether we have an obligation to redistribute wealth to strangers, what can justify secession, intervention and war; and the terms on which people can migrate to other countries.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 458/3.0  Ethics of War and Intervention  3S
An examination of the debates about when it is (morally) justified to go to war - and when it isn’t. Topics will include war as self-defense, humanitarian intervention, preventive war, and different conceptions of the morally proper way to wage war.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 461/3.0  International Regimes  3S
An exploration of problems of order and change in the international system with particular attention to the theory and practice of co-operation, ranging from classic concepts of international organization to current debates about international regimes.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).
POLS 462/3.0  
Studies in National Security 3S
Contemporary aspects of Canadian international security policy. Topics include: the evolution of policy towards NATO; bilateral defence arrangements with the US; collective security and cooperative security; peacekeeping; defence economics; the role of domestic factors in the shaping of strategy; and aid of the civil power.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 463/3.0  
International Relations Theory 3S
Critical examination of selected themes, issues and works in classical and contemporary international relations theory.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 464/3.0  
Russian Foreign Policy 3S
An examination of the determinants of Russian Foreign Policy, and the extent to which they have changed over the last half-century. The course will cover both historical and contemporary issues in Russian foreign relations.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 465/3.0  
The Politics of War 3S
A consideration of the main types of war theory, including descriptive, legal, normative, causal, process, and consequential, with applications to selected case studies.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 466/3.0  
Politics of War in Africa 3S
An examination of the political dimensions of violent conflict in Africa, including the causes of inter-state and intra-state conflict, and responses such as peacebuilding and global governance initiatives.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 467/3.0  
International Political Economy 3S
Theoretical approaches and issues within the field, while paying particular attention to hegemony and leadership, the economic dimension of post war and post cold war security, trade, money, debt, underdevelopment, regionalism, and international organization.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 468/3.0  
Conflict and Peace in the Middle East 3S
An examination of the causes of the contemporary conflict in the Middle East and the peacemaking efforts that have been employed to resolve the conflict.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 469/3.0  
Issues in Canadian Foreign Policy 3S
This course focuses on Canadian-American relations, emphasizing the interaction in both bilateral and multilateral contexts. Primary concern with issues of trade, investment and resources, with some attention paid to security issues.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 470/3.0  
Seminar in International Politics 3S
The theoretical problems of analyzing foreign policy and the practical issues of diplomatic action.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).
POLS 471/3.0  Politics and Science in Technological Societies 3S
An examination of connections between politics, science and technology. Topics include: ideologies and the autonomy of science; science in the Warfare State; controlling the social uses of science.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 482/3.0  Seminar in Public Policy 3S
An examination of key issues in Canadian politics. Topics will vary from year to year; consult the departmental homepage.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 483/3.0  Justice and Gender 3S
An examination of how contemporary theories of justice fare from the standpoint of gender (specifically inequalities in gender relations) and what a just, non-gendered society might look like.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 484/3.0  The Politics of Globalization 3S
An examination of the major theoretical debates and issues in contemporary globalization, including the historical roots of globalization, and the impact of globalization on culture, economics, trade, global governance, and global social movements.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 485/3.0  Seminar in Gender and Politics 3S
An examination of key issues in gender and politics. Topics will vary from year to year; consult the departmental homepage.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 486/3.0  The Politics of Rights 3S
A difficult challenge facing a liberal-democratic polity is how to distinguish allowable state action from the protected sphere of human activity. The course examines contemporary debates about whether rights provide an appropriate critical standard for evaluating state action and looks at different institutional methods to assess the justification of state actions.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).
EQUIVALENCY  POLS 494/3.0.

POLS 510/6.0  Directed Special Reading
Students arrange their course of reading in consultation with members of the Department. They are expected to write reports on their readings and to discuss them in seminars.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 511/3.0  Directed Special Reading
Students arrange their course of reading in consultation with members of the Department. They are expected to write reports on their readings and to discuss them in seminars.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).

POLS 512/3.0  Directed Special Reading
Students arrange their course of reading in consultation with members of the Department. They are expected to write reports on their readings and to discuss them in seminars.
PREREQUISITES  Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.6 on 30.0 units in POLS).
**POLS 590/6.0  Thesis**

The thesis is optional and counts as one course toward an honours concentration in Political Studies. The thesis subject must be selected at the end of the penultimate year after consultation with members of the Department, and the thesis must be submitted by 31 March of the final year. The student must pay a modest fee for the binding of the departmental copy.

**PREREQUISITES**

Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and POLS 384/3.0 and (a GPA of 2.9 on 30.0 units in POLS).
An introductory survey of basic areas of psychology including perception, cognition, learning and motivation and their biological substrata. Also reviewed are child development, individual differences, social psychology and abnormal psychology. Research participation experience is provided for students on an individual voluntary basis. Students are encouraged to participate in up to five hours of research experimentation. The course is based on a blended model where on-line learning is supplemented with weekly lecture and small-group tutorial.

NOTE Also offered as a distance course. Consult Continuing and Distance Studies.

NOTE Also offered at the Bader International Study Centre, Herstmonceux.
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>PSYC 235/6.0</td>
<td>Abnormal Psychology</td>
<td>3L</td>
<td>The experimental approach to the understanding, description and modification of abnormal behaviour is emphasized in the analysis of disorders of cognition (e.g., learning, memory and thinking), disturbances of affect (e.g., anxiety and depression), and problem behaviours (e.g., addictions, sexual disorders and psychopathy). NOTE Also offered as a distance course. Consult Continuing and Distance Studies. PREREQUISITE PSYC 100/6.0.</td>
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<tr>
<td>PSYC 241/3.0</td>
<td>Social Psychology</td>
<td>3L</td>
<td>The study of the individual in the social context: Self and identity, social cognition, interpersonal behaviour (affiliation, attraction, sex, aggression, altruism); social attitudes, prejudice and discrimination; social influence and group processes (conformity, leadership and intergroup relations); applied social psychology. NOTE Also offered as a distance course. Consult Continuing and Distance Studies. PREREQUISITE PSYC 100/6.0.</td>
</tr>
<tr>
<td>PSYC 251/3.0</td>
<td>Developmental Psychology</td>
<td>3L</td>
<td>Introduction to the scientific study of human development, with an emphasis on social, cognitive, and neurobiological processes underlying perceptual, cognitive, and emotional development from infancy to adolescence. NOTE Also offered as a distance course. Consult Continuing and Distance Studies. PREREQUISITE PSYC 100/6.0.</td>
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<tr>
<td>PSYC 271/3.0</td>
<td>Brain and Behaviour I</td>
<td>3L</td>
<td>An introduction to behavioural neuroscience. The course primarily focuses on the basics of neuronal operation, functional neuroanatomy, neuropharmacology, and behavioral neuroscience methods. This will be followed by an examination of input (sensory) and output (motor) systems of the brain. Finally, topics relevant to lateralization of function and language will be covered. NOTE Also offered as a distance course. Consult Continuing and Distance Studies. PREREQUISITE PSYC 100/6.0. ONE-WAY EXCLUSION May not be taken with or after NSCI 323/3.0; NSCI 324/3.0; NSCI 322/3.0; LISC 322/3.0, PSYC 370/3.0.</td>
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<tr>
<td>PSYC 300/6.0</td>
<td>Advanced Experimental Psychology</td>
<td>3L;3P</td>
<td>Statistical inference (continuation of PSYC 202/3.0/PSYC 203/3.0) and laboratory projects. The course covers problems of experimental designs, the usual types of analysis of variance, and regression analysis. PREREQUISITE (A GPA of 1.90 in PSYC 202/3.0 and PSYC 203/3.0) and (a GPA of 2.60 in PSYC at the 100- and 200-level) and (registration in a PSYC Major Plan).</td>
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<tr>
<td>PSYC 305/6.0</td>
<td>Human Memory</td>
<td>3L;2P</td>
<td>An overview of theory and data including traditional structural ideas, encoding principles, storage mechanisms, and retrieval processes. Topics include information theory, recognition memory, decision processes, control mechanisms for serial report, and the representation of meaning and knowledge. Emphasis is on current data and models. PREREQUISITES PSYC 203/3.0 and (PSYC 221/3.0 or PSYC 220/6.0 or COGS 200/6.0).</td>
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<tr>
<td>PSYC 321/3.0</td>
<td>Psycholinguistics</td>
<td>3L/S</td>
<td>An introduction to psycholinguistic research and theory. Topics include the development of language, language perception, language production, and linguistic representation. Particular attention will be paid to applied issues in language research (e.g., speech pathology, language aids, and automatic recognition of speech). PREREQUISITES PSYC 203/3.0 or (a grade of B- in PSYC 100/6.0 and Level 3 and registration in a LING Plan).</td>
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<tr>
<td>PSYC 322/3.0</td>
<td>Attention</td>
<td>3L</td>
<td>Theory and research on attentional processes from both a cognitive and a cognitive-neuroscience perspective. Topics include attentional selection, attentional limitations, role of attention in perception, memory, and action, and cortical mechanisms of attention. PREREQUISITES (PSYC 203/3.0 and [PSYC 221/3.0 or PSYC 220/6.0]) or COGS 200/6.0.</td>
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<td>Course Code</td>
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<tr>
<td>PSYC 323/3.0</td>
<td>Laboratory in Attention</td>
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<td>The laboratory in attention course provides students with both demonstrations and hands-on experience with the methodological design and data analysis techniques used in conducting classic studies of attention. Experimental techniques include attentional cueing, visual search, change blindness, inattentional blindness, eye-tracking, multi-object tracking, and functional imaging. PREREQUISITES  (PSYC 203/3.0 and [PSYC 221/3.0 or PSYC 220/6.0]) or COGS 200/6.0.</td>
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<tr>
<td>PSYC 332/3.0</td>
<td>Health Psychology</td>
<td>3L</td>
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<td>Key issues in health and health care require approaches embodying psychological, biological, and sociological factors. For every CT scan, injection, or doctor visit, there is a person to be considered. This course explores a variety of health-related topics where psychology has a significant role (e.g., health promotion, stress, psychoneuroimmunology, medical contacts, pain, illness, sport). Canadian statistics used in discussions. PREREQUISITES  PSYC 235/6.0 and PSYC 202/3.0.</td>
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<td>PSYC 333/3.0</td>
<td>Human Sexuality</td>
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<td>An overview of typical sexual behaviour and its variations. Topics include the history of sex research, the sexual response cycle, sexual dysfunction, gender identity, and sexual orientation. Particular attention will be paid to current issues in sex research and theory. PREREQUISITE  PSYC 235/6.0 or PSYC 251/3.0 or PSYC 271/3.0 or PSYC 370/3.0</td>
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<tr>
<td>PSYC 334/3.0</td>
<td>Laboratory in Psychological Testing</td>
<td>3P/S</td>
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<td>A lecture and laboratory course on psychometrics. Test development and evaluation will be the focus of student projects. The course will introduce software packages used for analyzing psychological test data. NOTE  A fee of $30 will be collected from each student for the cost of photocopying, materials, and mailings related to data collection. COREQUISITE  PSYC 300/6.0. EQUIVALENCY  PSYC 331/3.0.</td>
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<tr>
<td>PSYC 335/3.0</td>
<td>Positive Psychology</td>
<td>3L</td>
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<td>Positive Psychology is the scientific study of optimal human functioning. Lectures review the history and empirical support in areas such as interpersonal relationships, and applying positive thinking. Homework assignments will include experiential exercises designed to foster an increased understanding of the role of positive psychology in everyday life. PREREQUISITES  PSYC 203/3.0; PSYC 235/6.0</td>
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<td>PSYC 342/3.0</td>
<td>The Psychology of Social Influence</td>
<td>3L</td>
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<td>This course reviews theory and research on the processes by which people exert influence on one another’s behaviours, beliefs, emotions, and attitudes. Topics of study include conformity, compliance, obedience, and persuasion. The course will focus on both the theoretical and applied implications of social influence research. PREREQUISITE  PSYC 100/6.0.</td>
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<td>PSYC 348/3.0</td>
<td>Psychology of Crime</td>
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<td>A survey of the psychological literature on the causes of crime and interventions to reduce criminal behaviour. PREREQUISITE  PSYC 235/6.0 or PSYC 251/3.0.</td>
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<td>PSYC 351/3.0</td>
<td>Social and Emotional Development</td>
<td>3L</td>
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<td>An overview of the development of emotions and their regulation. Topics range from basic emotions in infancy and interactions with caregivers that lay the foundations of socialized behaviour to the emotional upheaval and radical social changes of adolescence. Individual differences in social and emotional behaviour will be considered in light of both typical and atypical development. PREREQUISITES  PSYC 203/3.0 and PSYC 251/3.0.</td>
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PSYC 352/3.0  
Cognitive and Language Development  
An overview of the development of cognitive and language processes in children. Topics include a discussion of the biological and social foundations of cognitive and language development, perceptual development, early communication, development of concepts and scripts, and improvements in reasoning and problem-solving ability over the course of development.  
PREREQUISITES (PSYC 203/3.0 and PSYC 251/3.0) or (level 3 and [registration in a COGS or LING Plan] and PSYC 100/6.0 with a grade of B-).

PSYC 355/3.0  
Comparative Cognition  
Theory and research in animal cognition from a comparative perspective. Topics include memory, spatial cognition, timing and counting, social learning, tool use, communication, language, and theory of mind. For each of these topics, comparisons among animal species will be made, including comparisons to humans (particularly infants and children).  
PREREQUISITE PSYC 100/6.0.

PSYC 370/3.0  
Brain and Behaviour II  
The relationship between brain and behaviour. The first part of the course examines topics relevant to brain plasticity, including neurodevelopment, brain damage and learning and memory; followed by a section on the biopsychology of motivation that covers the neural mechanisms of eating, sexual behaviour and sleep. The final section deals with disorders of cognition and emotion, including drug addiction, stress and psychiatric disorders.  
RECOMMENDATION PSYC 100/6.0.  
PREREQUISITE PSYC 271/3.0 or (level 3 and registration in a BIOL or LISC Plan).

PSYC 371/3.0  
Research Problems in Behavioural Neuroscience  
A critical analysis of important topics in behavioural neuroscience, with emphasis on current, controversial areas including: brain plasticity, learning and memory, neurobiology of sleep and consciousness. Laboratories emphasize behavioural neuroscience methods with hands-on experience in projects related to the lecture material.  
PREREQUISITES PSYC 271/3.0 and PSYC 370/3.0

PSYC 372/3.0  
Research Problems in Animal Learning  
Lectures will cover a basic review of investigative techniques in comparative cognition and behavioural ecology. Laboratory sessions will explore the principles discussed in the lectures through hands-on experience.

PSYC 380/3.0  
Advanced Perception  
This advanced course in visual and auditory perception will integrate findings from neuroanatomy and physiology with psychophysics, perception, and behaviour. Information processing will be traced from sensory structures through to motor output and communicative behaviour. The course will introduce you to psychophysical and neurophysiological methodology and will contain many demonstrations and hands-on experiments.

PSYC 397/3.0  
History of Modern Psychology  
A survey of the history of modern psychology, from the early 19th century to the close of the 20th. The more important empirical findings of psychology and related disciplines will be examined together with their theoretical explanations. The course will lead to an examination of the causes of differential scientific progress in the various subfields of psychology.  
PREREQUISITE PSYC 100/6.0

PSYC 398/3.0  
Selected Topics in Psychology I  
Lecture courses on selected topics in psychology offered periodically.  
NOTE Prerequisites vary depending on specific course content; consult instructor or Undergraduate Office in the Psychology Department.

PSYC 399/3.0  
Selected Topics in Psychology II  
Lecture courses on selected topics in psychology offered periodically.  
NOTE Prerequisites vary depending on specific course content; consult instructor or Undergraduate Office in the Psychology Department.
PSYC 400/3.0  
Teaching and Learning in Psychology  
An introduction to the scholarship and practice of teaching including what it means to be a scholarly teacher, how pedagogy research informs educational practice, and how people learn complex information. In addition to readings, critiques and facilitated discussions, a practicum component will include facilitating weekly tutorials.
NOTE  
Students must complete an application and be invited for an interview in the spring to be eligible for this fall term course. During the fall term, students will be responsible for facilitating 2-3 PSYC 100 tutorials per week as part of their teaching practicum.
PREREQUISITES  
Level 3 or above in a PSYC Major or Medial Plan and a GPA of 3.30 in PSYC.

PSYC 420/3.0  
Advanced Topics in Cognitive Psychology  
An examination of selected topics in cognitive psychology which may include: computational modelling; problem-solving; face recognition; gestalt influences on cognitive science; motor control processes; cognitive neuropsychology. Exact topics to vary by year.
PREREQUISITE  
PSYC 221/3.0 or PSYC 220/6.0 or COGS 200/6.0.

PSYC 422/3.0  
Selected Topics in Attention  
Addresses topics in attentional control including limits in attentional control, cortical mechanisms of attention, spatial and temporal attention, interaction of attention and memory, and influence of videogame playing on attentional control.
PREREQUISITE  
PSYC 221/3.0 or PSYC 220/6.0 or COGS 200/6.0.

PSYC 423/3.0  
Selected Topics in Real-World Scene Perception  
A discussion of some areas in natural scene perception. Topics that will be discussed include: speeded processing of scene gist, the neural basis of scene perception, attention and eye movements, visual search and memory in real-world contexts, as well as some discussion of other more applied research related to the processing of real-world scenes.
PREREQUISITE  
PSYC 221/3.0 or PSYC 220/6.0 or COGS 200/6.0.

PSYC 430/3.0  
The Self  
This course reviews theory and research on the self, primarily from a social psychological perspective. Topics include: the nature of the self, search for self-knowledge, self-development, self-cognition, self-regulation of behaviour, self-presentation, self-esteem, and the role of the self in psychological health.
PREREQUISITES  
PSYC 203/3.0 and PSYC 241/3.0.

PSYC 432/3.0  
Advanced Topics in the Study of Personality  
An examination of recent developments in certain aspects of personality theory and research.
NOTE  
Prerequisites vary depending on specific course content; consult instructor or Undergraduate Office in the Psychology Department.

PSYC 433/3.0  
Human Sexual Function and Dysfunction  
This course will provide students with an overview of common sexual dysfunctions, including prevalence, clinical presentation, and comorbid diagnoses. Particular attention will be paid to assessment and treatment (both therapy and medical management) in sexual dysfunction; in addition, past and current research strategies will be presented and critiqued, with an emphasis on classification difficulties.
PREREQUISITES  
PSYC 203/3.0 and PSYC 235/6.0.

PSYC 434/3.0  
Developmental Disabilities  
Issues concerning individuals with disabilities, their families, and professionals working in the field. Attitudes to disability, community integration, impact on family, appropriate assessment and intervention strategies, legal and ethical issues, and changing policy and practices, will be addressed through lectures, class analysis and class debates.
PREREQUISITES  
PSYC 235/6.0 and PSYC 251/3.0.
PSYC 435/3.0  **Advanced Topics in Abnormal Psychology**  3L/S
Recent developments in the experimental investigation of such abnormal behaviours as anxiety, depression, thought and memory disorders, etc.
NOTE Prerequisites vary depending on specific course content; consult instructor or Undergraduate Office in the Psychology Department.
EXCLUSION No more than 3 units from PSYC 431/3.0; PSYC 435/6.0 (2006/07).

PSYC 437/3.0  **Mood Disorders**  3L/S
An intensive study of the state of research and controversies in the area of mood disorders. Specific topics covered will include bio-genetic, cognitive, interpersonal, and stress theories of etiology, as well as state-of-the-art advances in treatment.
PREREQUISITES PSYC 203/3.0 and PSYC 235/6.0.

PSYC 439/3.0  **Childhood/Adolescent Psychopathology and Mental Health**  3L/S
The role of the family, community-based treatments, and research on early intervention and promotion in children’s mental health.
PREREQUISITES PSYC 203/3.0 and PSYC 235/6.0 and PSYC 251/3.0.

PSYC 440/3.0  **Advanced Topics in Social Psychology**  3S
A discussion of some areas and issues in social psychology emphasizing techniques and methods of social psychological research. Substantive topics may include attitudes and attitude change, psychology of women, conformity and deviance, etc.
NOTE Prerequisites vary depending on specific course content; consult instructor or Undergraduate Office in the Psychology Department.

PSYC 441/3.0  **Attitudes and Persuasion**  3L/S
This course provides an overview of classic and contemporary theories of attitudes and persuasion. Topics include the structure of attitudes, the role of attitudes in information processing, the impact of attitudes on behaviour, and the psychological processes underlying attitude change. A particular emphasis is placed on reviewing and evaluating theories of persuasion.
PREREQUISITES PSYC 203/3.0 and PSYC 241/3.0.

PSYC 442/3.0  **Culture and Cognition**  3L/S
This course will examine a wide range of social cognitive topics (e.g., reasoning, decision making, attribution, language, self-concept, cognitive styles, emotion, relationship and subjective well-being) from a cultural perspective by drawing on a wide range of cross-cultural studies.
PREREQUISITES PSYC 203/3.0 and PSYC 241/3.0.

PSYC 443/3.0  **Intimate Relationships**  3L/S
Classic and contemporary research pertaining to adult romantic relationships. Topics include attachment styles, relationship development, communication, and conflict in relationships.
PREREQUISITE PSYC 241/3.0.

PSYC 446/3.0  **Eyewitness Psychology**  3L/S
Witness issues examined from social psychological and cognitive perspectives. Topics include: eyewitness memory, police identification procedures, credibility of eyewitness testimony, and expert testimony on eyewitness issues. Emphasis on reading original research papers and discussion of applied as well as theoretical and methodological issues.
PREREQUISITES PSYC 203/3.0 and (PSYC 221/3.0 or PSYC 220/6.0 or COGS 200/6.0 or PSYC 305/6.0 or PSYC 241/3.0).
PSYC 450/3.0  Advanced Topics in Developmental Psychology  3L/S
Topics vary from year to year and may include prenatal factors in development, infancy, aging, adolescence, cultural deprivation and intervention programs in early childhood, and developmental psychopathology.
NOTE Prerequisites vary depending on specific course content; consult instructor or Undergraduate Office in the Psychology Department.
EXCLUSION No more than 3.0 units from PSYC 453/3.0; PSYC 450/3.0 (2009/10); PSYC 456/3.0.

PSYC 452/3.0  Developmental Psycholinguistics  3S
This seminar focuses on the human ability to produce and comprehend language and its development. Using original empirical articles the participants in the seminar will examine topics like syntactic and lexical disambiguation, structural priming, the development of reading, and cultural variability in language ability.
PREREQUISITES PSYC 203/3.0 and 12.0 units in PSYC at the 200 level or above or (level 3 and [registration in a LING or COGS Plan] and a grade of B- in PSYC 100/6.0).

PSYC 453/3.0  Infancy  3L/S
This seminar examines social and cognitive development during the first two years of life. Topics include the early differentiation between animate and inanimate entities, goal attribution, imitation, and prosocial behaviour.
PREREQUISITES PSYC 203/3.0 and PSYC 251/3.0.
EXCLUSION No more than 3.0 units from PSYC 453/3.0; PSYC 450/3.0 (2009/10).

PSYC 455/3.0  Adolescence  3S
This seminar will explore psychological development from the transition out of childhood to the transition into adulthood. The content of the course will cover typical and atypical adolescent development within several domains: cognitive, social, emotional, neurological and physical. Readings will focus on both basic developmental theory and applied research.
PREREQUISITES PSYC 203/3.0 and PSYC 251/3.0.

PSYC 456/3.0  Theory of Mind  3L/S
Explores children’s emerging understanding that others’ observable behaviours are motivated by internal mental states such as intentions, desires and beliefs. The first section of the course will cover the development of this understanding from infancy through the preschool years. The second section of the course will cover how this emerging understanding affects children’s social and communicative development.
PREREQUISITES PSYC 203/3.0 and PSYC 251/3.0.

PSYC 470/3.0  Advanced Topics in Behavioural Neuroscience  3S
Intensive coverage of selected topics in behavioural neuroscience to include, in different years, such topics as neurobiology of learning and memory, neuroendocrinology, biological bases of motivation, biological bases of brain disorders, etc.
PREREQUISITES PSYC 205/3.0 and PSYC 271/3.0 and PSYC 370/3.0

PSYC 471/3.0  Behavioural Pharmacology  3L/S
The neuropharmacological basis of psychological processes. Topics to be covered include drug actions on neurochemical systems, psychoactive effects of drugs and the neuropharmacological basis of psychiatric disorders.
PREREQUISITES Level 3 and (PSYC 205/3.0 or [PSYC 271/3.0 and PSYC 370/3.0].
PSYC 473/3.0  Neurobiology of Psychiatric Disorders  3L/S
An examination of current theories on the neurobiology of mental disorders (e.g. autism, schizophrenia, mood and anxiety disorders). Seminars will focus on the evaluation of animal models for investigating neurodevelopmental and pharmacological aspects of various psychopathologies.
RECOMMENDATION  PSYC 205/3.0.
PREREQUISITES  PSYC 271/3.0 and (PSYC 370/3.0).

PSYC 480/3.0  Special Topics in Psychology I  3L/S
Seminar courses on advanced topics in psychology offered periodically by visiting professors.

PSYC 485/3.0  Special Topics in Psychology II  3L/S
Seminar courses on advanced topics in psychology offered periodically by visiting professors.

PSYC 490/3.0  Special Topics in Psychology III  3L/S
Seminar courses on advanced topics in psychology offered periodically by visiting professors.

PSYC 495/3.0  Advanced Topic in Psychology  3L/S;2P
Seminar and lab course on an advanced topic in psychology offered periodically by visiting professors.
NOTE  Prerequisites vary depending on specific course content; consult instructor or Undergraduate Office in the Psychology Department.

PSYC 501/9.0  Honours Thesis
Each student will, under supervision, formulate and present an original research proposal involving the collection and analysis of data, carry it out, and submit a thesis based on the results. Proposals must be approved by relevant Ethics Review committees. Each student will be assessed a nominal fee for binding a library copy of the thesis. This course is optional for students completing a major in psychology but all students are advised that admission to a graduate program in psychology normally requires the completion of an honours thesis.
NOTE  Students whose research involves the care and/or handling of animals must also register in LISC 488/0.0.
PREREQUISITES  (A grade of 1.90 in PSYC 300/6.0) and (a GPA of 2.60 in PSYC 202/3.0 and PSYC 203/3.0 and PSYC 300/6.0) and a GPA of 2.90 in PSYC.

PSYC 550/3.0  Directed Special Reading I
Reading courses to be arranged in consultation with individual members of the Department.
NOTE  Students are limited to a maximum of two of PSYC 550/3.0, PSYC 555/3.0, PSYC 560/3.0, PSYC 570/3.0, or PSYC 575/3.0. Students are also limited to a maximum of two 500-level courses supervised by the same faculty member. (Students registered in PSYC 501/6.0 concurrently will not normally take one of these courses with their thesis supervisor.)
PREREQUISITES  Permission of the instructor and of the Chair of Undergraduate Studies and Level 2 3 or above and registration in a PSYC Major, Medial or Specialization Plan.

PSYC 555/3.0  Directed Special Reading II
Reading courses to be arranged in consultation with individual members of the Department.
NOTE  Students are limited to a maximum of two of PSYC 550/3.0, PSYC 555/3.0, PSYC 560/3.0, PSYC 570/3.0, or PSYC 575/3.0. Students are also limited to a maximum of two 500-level courses supervised by the same faculty member. (Students registered in PSYC 501/6.0 concurrently will not normally take one of these courses with their thesis supervisor.)
PREREQUISITES  Permission of the instructor and of the Chair of Undergraduate Studies and Level 2 3 or above and registration in a PSYC Major, Medial or Specialization Plan.
PSYC 560/3.0  Directed Special Reading III
Reading courses to be arranged in consultation with individual members of the Department.
NOTE Students are limited to a maximum of two of PSYC 550/3.0, PSYC 555/3.0, PSYC 560/3.0, PSYC 570/3.0, or PSYC 575/3.0. Students are also limited to a maximum of two 500-level courses supervised by the same faculty member. (Students registered in PSYC 501/6.0 concurrently will not normally take one of these courses with their thesis supervisor.)
PREREQUISITES Permission of the instructor and of the Chair of Undergraduate Studies and Level 2 3 or above and registration in a PSYC Major, Medial or Specialization Plan.

PSYC 570/3.0  Directed Special Laboratory I
Laboratory courses to be arranged in consultation with individual members of the Department. Courses must involve data collection; approximately 5-7 hours of lab work per week required.
NOTE Students whose research involves the care and/or handling of animals must also register in LISC 488/0.0.
NOTE Students are limited to a maximum of two of PSYC 550/3.0, PSYC 555/3.0, PSYC 560/3.0, PSYC 570/3.0, or PSYC 575/3.0. Students are also limited to a maximum of two 500-level courses supervised by the same faculty member. (Students registered in PSYC 501/6.0 concurrently will not normally take one of these courses with their thesis supervisor.)
PREREQUISITES Permission of the instructor and of the Chair of Undergraduate Studies and level 2 3 or above and registration in a PSYC Major, Medial or Specialization Plan.

PSYC 575/3.0  Directed Special Laboratory II
Laboratory courses to be arranged in consultation with individual members of the Department. Courses must involve data collection; approximately 5-7 hours of lab work per week required.
NOTE Students whose research involves the care and/or handling of animals must also register in LISC 488/0.0.
NOTE Students are limited to a maximum of two of PSYC 550/3.0, PSYC 555/3.0, PSYC 560/3.0, PSYC 570/3.0, or PSYC 575/3.0. Students are also limited to a maximum of two 500-level courses supervised by the same faculty member. (Students registered in PSYC 501/6.0 concurrently will not normally take one of these courses with their thesis supervisor.)
PREREQUISITES Permission of the instructor and of the Chair of Undergraduate Studies and level 2 3 or above and registration in a PSYC Major, Medial or Specialization Plan.
RELS 131/6.0 世界宗教/宗教世界 3L/T
Introduces religion in India, China and Japan; also the movements of Judaism, Christianity, Islam and Humanism.
NOTE Also offered as a distance course. Consult Continuing and Distance Studies.
NOTE Also offered at the Bader International Study Centre, Herstmonceux.

RELS 161/6.0 当代宗教与文化问题 3L/T
Explores religious issues in social ethics, literature, and culture; e.g., liberation, sexuality and gender, the Holocaust, the environment, and the future of humanity.

RELS 210/3.0 希伯来圣经 3L
Introduction in the light of the political, cultural, and religious history of ancient Israel and Judah.
PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 211/3.0 古代近东神话 3L
Similarities and differences in the myths of ancient Egypt and Mesopotamia will be explored on the basis of material remains (e.g., the pyramids and temple architecture) and texts.
PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 214/3.0 新约圣经 3L
As religious literature expressing the witness to Jesus; and as source for the history, trends and problems of early Christianity.
PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 216/3.0 天主教 3L/S
Beliefs, doctrines and practices characterizing Roman Catholicism both historically and in the present.
PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 218/3.0 基督教 3L/S
Introduction to Christianity as a religious tradition through its texts, its history and its contemporary forms.
PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 222/3.0 印度世界 3L/S
Developments through 3,000 years of Indian history; the Upanishads, the Bhagavad Gita, Yoga and Vedanta, mythology of Vishnu and Shiva, and recent Hindu thinkers (e.g., Tagore, Aurobindo).
PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 223/3.0 佛教 3L/S
Buddhism in India, the life and teaching of Gautama the Buddha, and the growth of the Theravadin and Mahayanist traditions.
PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 224/3.0 道教 3L/S
The philosophy, worldview, spirituality and ethics of Taoism, China’s organized indigenous religion, in Chinese history and in the contemporary world.
PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 225/3.0 日本宗教 3L/S
Shinto, Buddhism, and new religions in contemporary Japan, examined in terms of their central features and historical development.
PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 226/3.0 伊斯兰 3L/S
Historical and topical survey of Islam, its development through the study of its rise, institutionalization of its beliefs and practices, formation of its theology, law, mysticism; as well as its modern interpretations and practices.
PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.
RELS 227/3.0  Religions of Native Peoples  3L/S
Features of and theories about religious life in small-scale traditional societies. Includes Canadian Indians and Inuit.
PREREQUISITE  Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 228/3.0  Sages, Scholars and Rabbis  3L
The religious institutions produced by the Jews from the second to the seventh centuries. This course will explore in critical fashion the principal areas of rabbinic activity including: topics on jurisprudence, philosophy, social and political thinking, the role of tradition and scriptures.
PREREQUISITE  Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 229/3.0  Confucianism  3L/S
The philosophy, worldview, spirituality and ethics of Confucianism in its classical, modern and contemporary forms.
PREREQUISITE  Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 234/3.0  Judaism  3L
An introduction to the self-definition of Judaism through an analysis of the concepts of God, Torah and Israel past and present. Also, a preliminary study of the struggles facing Jews in Europe, the State of Israel and North America.
PREREQUISITE  Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 235/3.0  Religion and Environment  3L
Examines how religious traditions shape human values and behaviours towards the environment and how environmental problems are shaping the evolution of religious and spiritual traditions.
PREREQUISITE  Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 236/3.0  Religion and Sex  3L/S
Views of and attitudes toward sexuality in selected world religions; the place of sexuality in religious traditions; relationship between sex and the sacred; specific topics such as marriage, gay and lesbian issues, contraception will be chosen.
PREREQUISITE  Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 237/3.0  Religion and Film  3L/S
How religion is portrayed in film; particularly the depiction of religious belief, practices, practitioners, and institutions, and the use of religious symbols and metaphors.
PREREQUISITE  Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 238/3.0  Religion and Fiction  3L
Religious dimensions and meanings of modern and contemporary fiction.
PREREQUISITE  Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 250/3.0  Mythology of Heroes, Heroines and Saints  3L/S
Their place in religious consciousness with a variety of examples.
PREREQUISITE  Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 252/3.0  Mysticism  3L/S
The academic study of mysticism; mystical movements; and mystics.
PREREQUISITE  Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 256/3.0  The Interpretation of Sacred Texts  3L/S
Sacred texts in religions, examining their social importance, interpretative shifts, and battles over authority.
PREREQUISITE  Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 259/3.0  Women in Religious Traditions  3L/S
The status and roles of women in selected religious traditions; impact of feminism on the study of religion.
PREREQUISITE  Level 2 or above or 6.0 units at the 100 level in RELS.
EXCLUSION  No more than 1 course from RELS 254/6.0; RELS 259/3.0.
RELS 266/3.0  Religion and Social Ethics  3L
Moral problems and religious responses: e.g., sexual morality; violence; civil disobedience.
PREREQUISITE  Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 268/3.0  Religion and Bioethics  3L/S
Moral and religious norms of ethical judgment in bio-medicine; specific issues will be chosen such as population control, abortion, genetic control, experimentation, consent behaviour control, death and euthanasia.
PREREQUISITE  Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 301/3.0  Topics in Religious Studies I  3L/S
A topic of current interest in Religious Studies not covered in other available courses.
PREREQUISITE  Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 302/3.0  Topics in Religious Studies II  3L/S
A topic of current interest in Religious Studies not covered in other available courses.
PREREQUISITE  Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 310/3.0  Modern and Contemporary Christian Thought  3L/S
Exemplary work in recent and contemporary Christian theology.
PREREQUISITE  Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 311/3.0  Jesus: The Continuing Historical Quest  3L
This course provides an introduction to the methods and premises used in the modern quest to understand the historical facts of Jesus' life. Particular attention will be given to understanding the historical Jesus in his first-century socio-cultural context.
PREREQUISITE  Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 312/3.0  Christian Feminist Theology  3L/S
Issues raised by the feminist critique of traditional Christian theology and feminist attempts at theological reconstruction.
PREREQUISITE  Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 322/3.0  Yoga in India and the West  3L/S;1.5P
Surveys the history and philosophy of yoga in India and the West.
NOTE  Yoga practicum: estimated cost $85.
PREREQUISITE  Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 324/3.0  Body, Mind and Spirit in Chinese Culture  3L/S
Chinese cultural views of the body, mind and spirit and the connections between traditional Chinese medicine, philosophy and religion.
PREREQUISITE  Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 326/3.0  Religion and Politics in Iran  3L/S
Explores the role of religion in a Muslim society as exemplified in modern Iranian experience: a move from politicization of Islam to a post-fundamentalist interpretation.
PREREQUISITE  Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 328/3.0  Interpretation of Apocalyptic Literature  3L
The primary focus of the course will be the theological perspectives and social functions of apocalyptic in select religious traditions. The course will also survey the appropriation of apocalyptic themes throughout history in artistic forms such as art, fiction, and film, with particular attention to our modern times and cultures.
PREREQUISITE  Level 3 or above or 6.0 units at the 100 level in RELS.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits/L</th>
<th>Description</th>
<th>Prerequisite</th>
<th>Exclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>RELS 331/3.0</td>
<td>Religion and Violence</td>
<td>3L/S</td>
<td>Links between violence and religious beliefs, practices and institutions; for example, sacrifice, holy wars, scapegoating, and suicide.</td>
<td>Level 3 or above or 6.0 units at the 100 level in RELS.</td>
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<tr>
<td>RELS 332/3.0</td>
<td>The Goddess</td>
<td>3L/S</td>
<td>Examination of Goddesses in various religious traditions, both ancient and contemporary.</td>
<td>Level 3 or above or 6.0 units at the 100 level in RELS.</td>
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<tr>
<td>RELS 334/3.0</td>
<td>Jewish Views of the Other</td>
<td>3L</td>
<td>A study of the tensions that come into play as Jews formulated views of the Other to balance co-existence with them. Source materials include authoritative writings of Jewish commentary and law and social scientific views of them.</td>
<td>Level 3 or above or 6.0 units at the 100 level in RELS.</td>
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<tr>
<td>RELS 340/3.0</td>
<td>Religion and Democracy</td>
<td>3L/S</td>
<td>Deals with the role of religion in the public sphere and its relation to liberal democracy. It examines the (in)compatibility of some tenets of certain religions with modern democratic principles.</td>
<td>Level 3 or above or 6.0 units at the 100 level in RELS.</td>
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<tr>
<td>RELS 354/3.0</td>
<td>Theory in Religious Studies</td>
<td>3L/S</td>
<td>An introduction to major theoretical approaches to the study of religion.</td>
<td>Level 3 and 6.0 units at the 200 level in RELS.</td>
<td>No more than 6.0 units from RELS 333/6.0; RELS 354/3.0; RELS 355/3.0.</td>
</tr>
<tr>
<td>RELS 355/3.0</td>
<td>Research Methods in Religious Studies</td>
<td>3L/S</td>
<td>An investigation into the techniques of critical reading and writing for research in Religious Studies.</td>
<td>Level 3 and 6.0 units at the 200 level in RELS.</td>
<td>No more than 6.0 units from RELS 333/6.0; RELS 354/3.0; RELS 355/3.0.</td>
</tr>
<tr>
<td>RELS 364/3.0</td>
<td>Comparative Religious Ethics</td>
<td>3L/S</td>
<td>Ethics in religious traditions; how and why systems differ. Both general concepts and specific problems are considered.</td>
<td>Level 3 or above or 6.0 units at the 100 level in RELS.</td>
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<tr>
<td>RELS 393/3.0</td>
<td>Buddhism in the Modern World</td>
<td>3L/S</td>
<td>Encounter between Buddhism and the West, major movements and thinkers, and socio-politically engaged Buddhism.</td>
<td>Level 3 or above or 6.0 units at the 100 level in RELS.</td>
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<tr>
<td>RELS 394/3.0</td>
<td>Religion and Politics in Contemporary China</td>
<td>3L/S</td>
<td>Examines Chinese and foreign religions in mainland China from 1949 to the present day. Topics include the status of established religions, the political control of new religious movements and the resurgence of traditional Chinese religions and ideologies including Daoism and Confucianism.</td>
<td>Level 3 or above or 6.0 units at the 100 level in RELS.</td>
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<tr>
<td>RELS 396/3.0</td>
<td>Islam in the Modern World</td>
<td>3L/S</td>
<td>Exploration of Islamic developments since the 19th century: major thinkers, trends of thought, and contemporary movements as responses to modernity.</td>
<td>Level 3 or above or 6.0 units at the 100 level in RELS.</td>
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<tr>
<td>RELS 398/3.0</td>
<td>Judaism in the Modern Age</td>
<td>3L/S</td>
<td>The development of modern Jewish thought and practice, including the Reform, Orthodox, Conservative and Reconstructionist movements. The consequences of the Holocaust and the establishment of the modern State of Israel.</td>
<td>Level 3 or above or 6.0 units at the 100 level in RELS.</td>
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</tbody>
</table>
RELS 401/3.0  **Honours Seminar**  3S
Advanced seminar providing detailed reading of one contemporary theme or thinker in religious studies.
PREREQUISITE  Level 4 and registration in a RELS Major or Medial Plan and a GPA of 2.6 in 24.0 units in RELS.
COREQUISITE  RELS 353/6.0 or (RELS 354/3.0 and RELS 355/3.0).

RELS 452/3.0  **The Contemporary Religious Situation**  3S
Religion in modernity; traditional groups, newer religious movements, contemporary ideologies and social trends of religious significance.
PREREQUISITE  Level 3 or 4 and registration in a RELS Major or Medial Plan.
COREQUISITE  RELS 353/6.0 or (RELS 354/3.0 and RELS 355/3.0).
EXCLUSION  No more than 1 course from RELS 451/6.0; RELS 452/3.0.

RELS 501/3.0  **Directed Special Studies I**
Reading courses on topics not covered in other available courses, arranged with individual members of the Department.
PREREQUISITE  Level 4 and registration in the RELS Major Plan and permission of the Department.

RELS 502/3.0  **Directed Special Studies II**
Reading courses on topics not covered in other available courses, arranged with individual members of the Department. RELS 502/3.0 may be taken independently or as a continuation of RELS 501/3.0.
PREREQUISITE  Level 4 and registration in the RELS Major Plan and permission of the Department.

RELS 510/3.0  **Honours Essay**
A critical essay of at least 7500 words on a topic of the student’s choice, written under the supervision of a faculty member.
PREREQUISITE  Level 4 and registration in the RELS Major Plan and permission of the Department.
SOCY 122/6.0 Introduction to Sociology 2L;1T
An introduction to the concepts, theories and methods of sociological enquiry, and their application to the analysis of Canadian society.
NOTE Also offered as a distance course. Consult Continuing and Distance Studies.

SOCY 210/3.0 Social Research Methods 3L
Examination of relationship between sociological theory and methods of social research; topics include logic of research, hypothesis formulation, and variables and their operationalization.
PREREQUISITE A grade of C- in SOCY 122/6.0.

SOCY 211/3.0 Social Statistics 3L
Survey of principal techniques for gathering and analysing social data; basic statistical analysis included.
NOTE With the approval of the Undergraduate Chair, the courses listed as exclusions below can fulfill the statistics requirement of a SOCY plan if another course in SOCY is taken.
PREREQUISITE A grade of C- in SOCY 122/6.0.
EXCLUSION No more than 3.0 units from BIOL 243/3.0; CHEE 209/3.0; COMM 162/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0 (formerly PHED 251/3.0); NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 261/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0.

SOCY 225/3.0 Sociology of Globalization 3L
An introduction to recent sociological debates on the emergence of a global economy and society, and its impact on different parts of the world.
PREREQUISITE A grade of C- in SOCY 122/6.0.

SOCY 226/3.0 The Development of Social Theory (pre-1900) 3L
A discussion of the development of theories of society. Key aspects of Classical Greek thought, the Enlightenment, and Karl Marx’s work along with other selected thinkers are normally considered.
PREREQUISITE A grade of C- in SOCY 122/6.0.
EXCLUSION No more than 6.0 units from SOCY 221/6.0; SOCY 226/3.0; SOCY 227/3.0.

SOCY 227/3.0 The Development of Social Theory (1870-1920) 3L
A discussion of the development of theories of society during the late nineteenth and early twentieth centuries. The main focus is normally on the work of Emile Durkheim and Max Weber with other thinkers included.
PREREQUISITE SOCY 226/3.0.
EXCLUSION No more than 6.0 units from SOCY 221/6.0; SOCY 226/3.0; SOCY 227/3.0.

SOCY 232/3.0 Sociology of the Canadian Women’s Movement 3L
Rise of Canadian women’s movement and the theoretical perspectives that developed within it and found expression in sociology and other disciplines; organizational and strategic practices and the movement’s ongoing importance explored.
PREREQUISITE A grade of C- in SOCY 122/6.0.

SOCY 233/6.0 ‘Race’ and Racialization 3L/T
Concept and meaning of race; race and racism; a typology of race relations; elements of race politics; race, gender, and ethnic relations in a comparative context.
PREREQUISITE A grade of C- in SOCY 122/6.0.
EXCLUSION No more than 1 course from IDIS 302/3.0; SOCY 233/6.0.

SOCY 234/3.0 Engineering and Social Justice: Critical Theories of Technological Practices 3S
This course will help students develop critical perspectives towards technology in general and engineering practices in particular. It is cross-disciplinary in its approach, drawing materials from mainstream ‘applied’ sciences, as well as from critical approaches associated with ‘social’ sciences, such as feminism, anti-racism, anarchism, marxism, and radical ecology.
PREREQUISITE Level 2 or above.
EXCLUSION No more than 3.0 units from SOCY 234/3.0; MDEP 221/3.0.
SOCY 273/3.0  Social Psychology  3L
The social matrix of personality, socialization as a social process, the influence of social structure and culture upon socialization practices, and the patterning of personality through the life cycle.
PREREQUISITE A grade of C- in SOCY 122/6.0.

SOCY 274/6.0  Sociology of Deviance  3L
Theoretical issues arising from the process by which activities are defined as deviant: such activities as ‘sexual deviance’, ‘mental illness’, and ‘political deviance’ examined.
NOTE Only offered as distance course. Consult Continuing and Distance Studies.
PREREQUISITE A grade of C- in SOCY 122/6.0.
EXCLUSION No more than 6.0 units from SOCY 274/6.0; SOCY 275/3.0; SOCY 276/3.0.

SOCY 275/3.0  Theories of Deviance and Social Control  3L
This course focuses on the theoretical foundation examining the process by which activities are defined as deviant: such activities as ‘sexual deviance’, ‘mental illness’, and ‘political deviance’. The major etiological approaches to the study of deviants are also considered.
PREREQUISITE A grade of C- in SOCY 122/6.0.
EXCLUSION No more than 6.0 units from SOCY 274/6.0; SOCY 275/3.0; SOCY 276/3.0.

SOCY 276/3.0  Substantive Issues in Social Deviance  3L
This course examines a variety of substantive topics in the sociology of deviance. The choice of topics will illustrate the range of theoretical approaches discussed in SOCY 275/3.0. The selection of topics will vary from semester to semester but will typically include violence, corporate crime, sexual deviance, and physical stigma.
PREREQUISITE  SOCY 275/3.0.
EXCLUSION No more than 6.0 units from SOCY 274/6.0; SOCY 275/3.0; SOCY 276/3.0.

SOCY 284/3.0  Sociology of Information and Communication Technology  3L
Social context and consequences of information and communication technologies as they relate to work, culture, privacy and education.
NOTE Also offered as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE A grade of C- in SOCY 122/6.0.

SOCY 301/3.0  Selected Topics in Contemporary Sociology  3L
Explores a range of issues in contemporary sociology. Topics may vary from year to year. See the departmental website for further details.
PREREQUISITE A grade of C- in SOCY 122/6.0.

SOCY 302/3.0  Selected Topics in Socio-legal Studies  3L
Explores a range of contemporary issues in socio-legal studies. Topics may vary from year to year. See the departmental website for further details.
PREREQUISITE A grade of C- in SOCY 122/6.0.

SOCY 303/3.0  Selected Topics in Feminist Sociology  3L
Explores a range of contemporary issues in feminist sociology. Topics may vary from year to year. See the departmental website for further details.
PREREQUISITE A grade of C- in SOCY 122/6.0.

SOCY 304/3.0  Selected Topics in Communications and Information Technology  3L
Explores a range of contemporary issues in communications and information technology. Topics may vary from year to year. See the departmental website for further details.
PREREQUISITE A grade of C- in SOCY 122/6.0.
SOCY 306/3.0  Consumer Culture  3L
A comprehensive introduction to the major theories and empirical studies of consumer culture with emphasis upon the historical, socioeconomic, and cultural aspects of consumption in sociological context; substantive focus upon diverse topics such as food, tourism, the home, children, and marketing.
PREREQUISITE  A grade of C- in SOCY 122/6.0.
EXCLUSION  No more than 3.0 units from SOCY 306/3.0; SOCY 430/3.0.

SOCY 309/3.0  Surveillance and Society  3L
Provides a critical introduction to surveillance and the emerging interdisciplinary field of Surveillance Studies. Offers an historically-grounded, theoretically-informed, and empirically-illustrated survey of the practices, technologies and social relations of surveillance from different perspectives, with an emphasis on the socio-political dimensions.
PREREQUISITE  A grade of C- in SOCY 122/6.0.
EXCLUSIONS  No more than 3.0 units from SOCY 304/3.0 (2009-10); SOCY 309/3.0.

SOCY 321/3.0  Research Methodology  3L/S
Evaluation and use of quantitative/qualitative research methodologies as a means of exploring the validity of sociological theories.
PREREQUISITES  A minimum grade of C in each of SOCY 210/3.0 and SOCY 211/3.0 and (SOCY 221/6.0 or [SOCY 226/3.0 and SOCY 227/3.0]).

SOCY 324/6.0  Sociology of Mass Communications  3L
Theories of interpersonal communication and modernization applied to mass communication; bureaucratization, ownership concentration, media socialization, national identity formation, links to other institutions and career characteristics of media workers explored.
PREREQUISITE  A grade of C- in SOCY 122/6.0.

SOCY 325/3.0  Contemporary Social Theories I  3L
Building from the material in SOCY 226/3.0 and SOCY 227/3.0, this course shows how some of the strains of classical sociological theory and new forms of social theorizing have been developed since the early part of the twentieth century. A variety of theoretical schools are examined with some in greater depth than others.
PREREQUISITE  SOCY 226/3.0 and SOCY 227/3.0.
EXCLUSION  No more than 6.0 units from SOCY 322/6.0; SOCY 325/3.0; SOCY 326/3.0.

SOCY 326/3.0  Contemporary Social Theories II  3L
Building from the material in SOCY 226/3.0, SOCY 227/3.0 and SOCY 325/3.0, this course explores other developments in classical and contemporary theory since the early part of the twentieth century. A variety of theoretical schools are examined with some in greater depth than others.
PREREQUISITE  SOCY 325/3.0.
EXCLUSION  No more than 6.0 units from SOCY 322/6.0; SOCY 325/3.0; SOCY 326/3.0.

SOCY 331/6.0  Women and Social Structure  3L
Explores the range of sociological and feminist theories about gender construction and inequity. An integrated study of gender, race, class and sexuality and how these social relations shape women’s lives; topics such as the gendered and racialized organization of work, family, popular culture and masculinity are discussed.
PREREQUISITE  A grade of C- in SOCY 122/6.0.

SOCY 336/3.0  The Sociology of Work and Technology  3L
The course examines the meaning of work and the changes taking place in the workworld, with special attention devoted to new technology, gender, unionism and globalization.
PREREQUISITE  A grade of C- in SOCY 122/6.0.

SOCY 344/3.0  Power and Change in Canada  3L/S
Critical study of Canada’s socio-economic structures and processes: topics include dynamics of capitalist development, global restructuring, labour force transformations.
PREREQUISITE  A grade of C- in SOCY 122/6.0.
SOCY 352/3.0  Family Diversity  3L
This course introduces students to the sociology of family diversity. Topics normally considered include diversity of family forms; social constructions of motherhood and fatherhood; contested understandings of families; and how contemporary debates about gender differences, sexualities, and racialization may inform the understanding of intimate and familial relations.
PREREQUISITE A grade of C- in SOCY 122/6.0.

SOCY 354/3.0  Sociology of Education  3L
Comparative study of Canadian education system and processes in light of current sociological theory and research.
PREREQUISITE A grade of C- in SOCY 122/6.0.

SOCY 362/3.0  Cultural Studies  3L
This course focuses on contemporary sociological perspectives of culture. It includes a survey of various theoretical positions vis à vis culture and society such as the high and low culture distinction, the rise of mass culture; cultural hegemony; populism and social resistance. Canadian culture is the predominant object of analysis.
PREREQUISITE A grade of C- in SOCY 122/6.0.

SOCY 363/3.0  Science, Technology and Society  3S
Critical examination of science in modern society; particular reference to historical development, transmission of scientific knowledge, conduct of enquiry, and interdependence with other institutions.
PREREQUISITE A grade of C- in SOCY 122/6.0.

SOCY 384/3.0  Women and Reproductive Technology  3L/S
Critical study of historical development of scientific and medical establishments with specific focus upon women; legal, ethical, and economic issues related to new reproductive technologies examined.
PREREQUISITE A grade of C- in SOCY 122/6.0 or 6.0 units in GNDS.

SOCY 387/3.0  Sociology of Crime and Delinquency  3L
Critical study of conceptual, empirical, and theoretical bases to sociological approaches to crime and delinquency; Canadian research emphasized.
PREREQUISITES SOCY 274/6.0 or (SOCY 275/3.0 and SOCY 276/3.0).

SOCY 388/3.0  Sociology of Criminal Justice  3L/S
Comparative examination of criminal justice system and its major institutions; Canadian research emphasized.
PREREQUISITES (SOCY 275/3.0 and SOCY 276/3.0 and SOCY 387/3.0) or permission of the Department.

SOCY 389/3.0  Gender, Law and Crime  3L/S
Investigation of gender differences in offending, victimization and criminal justice processing; Canadian research emphasized.
PREREQUISITES SOCY 274/6.0 or (SOCY 275/3.0 and SOCY 276/3.0) or permission of the Department.

SOCY 400/3.0  Advanced Studies in Classical Social Theory  3S
Critical treatment of classical theories; emphasis upon methodological issues.
PREREQUISITES (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 401/3.0  Advanced Studies in Contemporary Social Theory  3S
Critical treatment of contemporary theories; emphasis upon logic of social inquiry.
PREREQUISITES (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).
SOCY 402/3.0  
**Families, Gender and the State**  
3S
A critical assessment of contemporary issues and theories pertaining to intimate relationships and family relations. Contemporary research and debates are critically discussed. An overall objective of the course is to ‘rethink the family’ and consider and evaluate ideological assumptions and persistent myths about ‘the family’.

**PREREQUISITES**  
(A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 403/3.0  
**Sociology of the Body**  
3S
This seminar aims at advanced students interested in exploring the body as a site for the production of social and cultural meaning and social inequality. Theoretical approaches may include critical race theory, queer theory, feminist theory, postcolonial theory, and sociological theories of the body. Topics covered may include the ways that representations of the body are linked to practices of racism, sexism, moral regulation, colonialism and nation-building.

**PREREQUISITES**  
(A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 404/3.0  
**Sociology of Corporate Crime**  
3S
Course examines the causes and effects of corporate crime, and the challenges of controlling, policing, and sanctioning it. The role of the regulatory agency, the impact of globalization, the rise of transnational corporations, and associated issues of development and power are considered.

**PREREQUISITES**  
(SOCY 274/6.0 or (SOCY 275/3.0 and SOCY 276/3.0) and (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

EXCLUSION  
SOCY 404/3.0

SOCY 405/3.0  
**Sociology of Sex Diversity**  
3S
The major aim of this course is to explore notions of ‘difference’ through various theoretical perspectives. Specific topics include sex, gender, sexuality, sexual reproduction, intersex and transex.

**PREREQUISITES**  
(A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

EXCLUSION  
SOCY 405/3.0

SOCY 420/3.0  
**Program Evaluation**  
3S
This course focuses on program evaluation as applied sociology, including program theory, and will provide a practical understanding of how social research methods are used to assess social intervention programs.

**PREREQUISITES**  
(A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 421/3.0  
**Multivariate Statistical Applications**  
3S
Instruction and practice in building and testing multiple regression and logistic regression models with sociological data. Potential utility of alternative models considered.

**PREREQUISITES**  
(A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).
SOCY 422/3.0  **Advanced Studies in Communication and Information Technology**  3S
Examination of social implications of communication and information technology in the context of sociological theory.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 424/3.0  **Sociology of Aging**  3S
This course provides a comprehensive and critical assessment of contemporary issues on social aging. This course focuses on how society and its major institutions have reacted to the aging of society as well as how they have shaped it. The social-psychological, social structural (gender, race and social class) and cultural factors that influence a person’s experience of aging are examined.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 425/3.0  **Selected Topics in Sociology I**  3S
Consult the Department for possible offerings in any given year.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 426/3.0  **Selected Topics in Sociology II**  3S
Consult the Department for possible offerings in any given year.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).
EXCLUSION  SOCY 404/3.0

SOCY 427/3.0  **Selected Topics in Sociology III**  3S
Consult the Department for possible offerings in any given year.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).
EXCLUSION  No more than 3.0 units from SOCY 306/3.0; SOCY 430/3.0

SOCY 428/3.0  **Selected Topics in Sociology IV**  3S
Consult the Department for possible offerings in any given year.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 429/3.0  **Selected Topics in Sociology V**  3S
Consult the Department for possible offerings in any given year.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).
EXCLUSION  SOCY 405/3.0
SOCY 430/3.0  Sociology of Consumer Culture  3S
A critical engagement with theories of consumer culture with emphasis upon the material, symbolic and practice-oriented aspects of consumption in sociological context; substantive focus upon shopping, taste, brands, tourism, services, digital commodities.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).
EXCLUSION  No more than 3.0 units from SOCY 306/3.0; SOCY 430/3.0

SOCY 431/3.0  Advanced Studies in Gender Relations  3S
Advanced study of gender relations from postcolonial and anti-racist theoretical perspectives. Historical and sociological analysis of femininity, masculinity, race and sexuality, particularly in the context of nation-building and colonialism.
PREREQUISITES  SOCY 331/6.0 and (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and 9.0 units from SOCY).

SOCY 454/3.0  Sociology of Organizations  3S
This course will introduce students to the major theoretical approaches and ongoing debates within organization theory.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 457/3.0  Law and Social Structure  3S
Sociological perspectives of the relationship of law to social structure, the role of law in social action, law’s role in social change, and discrimination and social inequality through law; emphasis is on contemporary systems in comparative and historical perspective.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 458/3.0  Law and Ideology  3S
Relationship between law and ideology with particular reference to current controversies; legal reasoning in substantive areas of law, and the place of law with reference to social control, power, social conflict, and dispute resolution; law’s interconnections to state ordering and economic relations emphasized.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 472/3.0  Topics in the Sociology of Development  3S
Examination of the relevance of sociological theories for a cross-cultural understanding of development.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).
SOCY 475/3.0  Advanced Studies in Deviance and Social Control  3S
Critical study of theories and practices of social control in Canada and comparable societies insofar as they are implemented by law or regulation and rely on coercion; main agencies of social control and assumptions of their operation emphasized.
PREREQUISITES  SOCY 274/6.0 or (SOCY 275/3.0 and SOCY 276/3.0) and (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 476/3.0  Advanced Topics in Surveillance Studies  3S
Advanced study of surveillance engaging with sociological, political, cultural and geographic perspectives. The focus is on core topics in Surveillance Studies including: the relationship between surveillance, power and social control; the concept of privacy, its history, utility and future; surveillance, pleasure and consumption; and surveillance in popular culture. PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 480/3.0  Advanced Studies in Criminology  3S
Critical study of theoretical and empirical problems in contemporary criminology and penology.
PREREQUISITES  SOCY 274/6.0 or (SOCY 275/3.0 and SOCY 276/3.0) and (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 500/6.0  Directed Special Reading
Students will arrange their reading in consultation with members of the Department. They will be expected to write reports on their readings and to discuss them throughout the year in seminars.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 501/6.0  Directed Special Reading
Students will arrange their reading in consultation with members of the Department. They will be expected to write reports on their readings and to discuss them throughout the year in seminars.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 510/3.0  Directed Special Reading
Students will arrange their reading in consultation with members of the Department. They will be expected to write reports on their readings and to discuss them throughout the term in seminars.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).

SOCY 511/3.0  Directed Special Reading
Students will arrange their reading in consultation with members of the Department. They will be expected to write reports on their readings and to discuss them throughout the term in seminars.
PREREQUISITES  (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0) and (a minimum GPA of 2.60 in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and 9.0 units from SOCY).
**SOCY 512/3.0**  
**Directed Special Reading**  
Students will arrange their reading in consultation with members of the Department. They will be expected to write reports on their readings and to discuss them throughout the term in seminars.  
**PREREQUISITES** (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and SOCY 327/3.0 and 9.0 units from SOCY).

**SOCY 520/6.0**  
**Thesis**  
3S  
An intensive study of a particular topic or question, usually consisting of a number of sections or chapters which form a single coherent work. The topic is chosen by the student in consultation with an academic adviser, and the work covers both terms.  
**NOTE** A brief giving details of the requirements is available in the Department; students should read this before the end of their third year. A meeting between staff and students is normally held in the Fall Term to discuss questions about the thesis.  
**PREREQUISITES** (A minimum grade of C in SOCY 210/3.0 and SOCY 211/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and SOCY 321/3.0 and SOCY 325/3.0 and SOCY 326/3.0 and SOCY 327/3.0 and SOCY 210/3.0 and SOCY 226/3.0 and SOCY 227/3.0 and 9.0 units from SOCY).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Exclusion</th>
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</thead>
<tbody>
<tr>
<td>SOFT 325/3.0</td>
<td>Human-Computer Interaction</td>
<td>3L</td>
<td>CISC 124/3.0 and CISC 235/3.0.</td>
<td>No more than 3.0 units from CISC 325/3.0; SOFT 325/3.0.</td>
</tr>
<tr>
<td>SOFT 327/3.0</td>
<td>Software Quality Assurance</td>
<td>3L</td>
<td>CISC 203/3.0 and CISC 204/3.0 and CISC 223/3.0.</td>
<td>No more than 3.0 units from CISC 327/3.0; SOFT 327/3.0.</td>
</tr>
<tr>
<td>SOFT 423/3.0</td>
<td>Software Requirements</td>
<td>3L</td>
<td>CISC 322/3.0 and CISC 325/3.0.</td>
<td>No more than 3.0 units from CISC 423/3.0; SOFT 423/3.0.</td>
</tr>
<tr>
<td>SOFT 425/3.0</td>
<td>Advanced User Interface Design</td>
<td>3L</td>
<td>CISC 325/3.0 or permission of the School.</td>
<td>No more than 3.0 units from CISC 425/3.0; SOFT 425/3.0.</td>
</tr>
<tr>
<td>SOFT 426/3.0</td>
<td>Real-Time Systems</td>
<td>3L;1T alt.wks.</td>
<td>CISC 324/3.0 and CISC 327/3.0.</td>
<td>No more than 3.0 units from CISC 426/3.0; SOFT 426/3.0.</td>
</tr>
<tr>
<td>SOFT 437/3.0</td>
<td>Performance Analysis</td>
<td>3L</td>
<td>CISC 324/3.0 and CISC 327/3.0.</td>
<td>No more than 3.0 units from CISC 437/3.0; SOFT 437/3.0.</td>
</tr>
</tbody>
</table>
SPAN P10/3.0  Beginning Spanish I  3L
Offers a basic level of Spanish understanding, speaking, reading and writing for students who have no knowledge of
Spanish whatsoever.
NOTE Also offered at the Bader International Study Centre, Herstmonceux.
ONE-WAY EXCLUSION May not be taken with or after SPAN 101/6.0; SPAN 112/3.0; SPAN 201/6.0; SPAN
204/3.0; SPAN 205/3.0; SPAN 301/3.0; SPAN 302/3.0; SPAN 303/3.0; SPAN 304/3.0; SPAN 401/3.0; SPAN
402/3.0.

SPAN 112/3.0  Beginning Spanish II  3L
The continuation of SPAN P10/3.0. Also for students entering the University who have some knowledge of Spanish
but have not completed 4U Spanish or equivalent. For these students an assessment exam or interview with an
academic adviser is required before registration. Contact the Department of Languages, Literatures and Cultures for
details.
NOTE Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE A grade of C in SPAN P10/3.0.
ONE-WAY EXCLUSION May not be taken with or after SPAN 101/6.0; SPAN 201/6.0; SPAN 204/3.0; SPAN
205/3.0; SPAN 301/3.0; SPAN 302/3.0; SPAN 303/3.0; SPAN 304/3.0; SPAN 401/3.0; SPAN 402/3.0.

SPAN 204/3.0  Español intermedio  3L
A review of the fundamentals of Spanish, in cultural contexts, designed to develop aural, oral, reading and writing
skills.
RECOMMENDATION 4U Spanish.
PREREQUISITE A grade of C in SPAN 101/6.0 or SPAN 112/3.0.
ONE-WAY EXCLUSION May not be taken with or after SPAN 201/6.0; SPAN 204/3.0; SPAN 301/3.0; SPAN
302/3.0; SPAN 303/3.0; SPAN 304/3.0; SPAN 401/3.0; SPAN 402/3.0.

SPAN 205/3.0  Español avanzado  3L
An advanced treatment of the written and spoken language, involving a study of syntax and style, written
composition, translation into Spanish and oral discussions of cultural topics.
PREREQUISITE A grade of C in SPAN 204/3.0.
ONE-WAY EXCLUSION May not be taken with or after SPAN 201/6.0; SPAN 301/3.0; SPAN 302/3.0; SPAN
303/3.0; SPAN 304/3.0; SPAN 401/3.0; SPAN 402/3.0.

SPAN 247/3.0  Spanish Cultural Contexts  3L
Offered in English, this survey course covers the historical, social, political and cultural aspects of Spain from its
prehistoric period to the present day. The first half of the semester will cover the beginnings of Iberian civilization
up to the end of the 19th century. The second half will concentrate on the 20th and 21st centuries.

SPAN 248/3.0  Spanish American Cultural Contexts  3L
Offered in English, this survey course covers a vast area, several cultures, and many centuries. Students are expected
to develop a general understanding of Spanish American culture through an examination of important historical,
social, political, economic, and artistic developments in the area.

SPAN 301/3.0  Gramática avanzada y composición I  3L
This course provides a comprehensive review of the most difficult aspects of Spanish grammar through advanced
exercises in reading, composition, and conversation. The goal of the course is to consolidate and perfect the
student’s written and oral skills.
PREREQUISITE SPAN 201/6.0 or SPAN 205/3.0.
ONE-WAY EXCLUSION May not be taken with or after SPAN 302/3.0; SPAN 401/3.0; SPAN 402/3.0.

SPAN 302/3.0  Gramática avanzada y composición II  3L
This course provides a comprehensive review of the most difficult aspects of Spanish grammar through advanced
exercises in reading, composition, and conversation. The goal of the course is to consolidate and perfect the
student’s written and oral skills.
PREREQUISITE SPAN 301/3.0.
ONE-WAY EXCLUSION May not be taken with or after SPAN 401/3.0; SPAN 402/3.0.
SPAN 303/3.0  Español para contextos profesionales I  3S
Intensive practice in advanced grammar with a focus on Spanish for business, technical, administrative and related cultural purposes.
PREREQUISITE  SPAN 201/6.0 or SPAN 205/3.0.

SPAN 304/3.0  Español para contextos profesionales II  3S
Intensive practice in advanced grammar with a focus on Spanish for business, technical, administrative and related cultural purposes.
PREREQUISITE  SPAN 303/3.0.

SPAN 306/3.0  La narrativa hispanoamericana del siglo 20  3S
A study of selected works by Spanish American writers such as Horacio Quiroga, Gabriel García Márquez, Jorge Luis Borges, Juan Rulfo, Julio Cortázar and Reinaldo Arenas.
PREREQUISITE  SPAN 251/6.0.
COREQUISITES  (SPAN 301/3.0 and SPAN 302/3.0) or (SPAN 303/3.0 and SPAN 304/3.0).

SPAN 308/3.0  The Films of Pedro Almodóvar  3L
Students will view and analyze a selection of Almodóvar’s films within the context of Spain and other countries. The study of gender, sexual, cultural and societal identity and other fundamentals of contemporary theory will be central to this course. Taught in English together with SPAN 408/3.0. Hispanic texts are read in translation. Assignments, tests, and examination are written in English.
EXCLUSION  No more than 3.0 units from SPAN 308/3.0; SPAN 408/3.0.

SPAN 310/3.0  Artistic Representations of the Spanish Civil War  3S
The Spanish Civil War (1936-39) culminated in the military overthrow of the Republican government and the beginning of Francisco Franco’s long dictatorship. This course examines artistic representations of the war in film (both documentary and fictional) and in other visual media (paintings, photography, posters), as well as in the written works of both Spanish and foreign authors such as Orwell, Hemingway, Neruda, Sender and Rodoreda.
PREREQUISITE  SPAN 261/6.0 or SPAN 381/3.0.

SPAN 315/3.0  Literatura medieval española  3S
A study of the main works and currents of medieval Spanish literature from A.D. 1000 to 1500.
PREREQUISITE  SPAN 261/6.0 or SPAN 381/3.0.
COREQUISITES  (SPAN 301/3.0 and SPAN 302/3.0) or (SPAN 303/3.0 and SPAN 304/3.0).

SPAN 316/3.0  Introduction to Contemporary Literary Theory and Analysis  3S
An introduction to contemporary literature theories and the analysis of Hispanic texts from reader-, structural-, and author-oriented perspectives. This course may not be applied toward a Spanish concentration.
NOTE  Taught in English together with SPAN 406/3.0. Written work and examinations are in English. Readings are in translation.
PREREQUISITE  Level 3 or above.
EXCLUSION  No more than 3.0 units from SPAN 316/3.0; SPAN 406/3.

SPAN 328/3.0  Gender, Development and Film in Latin America  3L
This course will explore major themes of development in relation to gender in Latin America through its manifestation in film. Films will be chosen from all regions of Latin America, including Brazil.
NOTE  Taught in English together with SPAN 428/3.0. Hispanic texts are read in translation. Assignments, tests and examination are written in English.
EXCLUSION  No more than 3.0 units from SPAN 328/3.0; SPAN 428/3.

SPAN 330/3.0  Cervantes: creador de la novela  3S
A study of Don Quijote and the development of the theory of the novel by Cervantes.
PREREQUISITE  SPAN 261/6.0 or SPAN 380/3.0.
COREQUISITES  (SPAN 301/3.0 and SPAN 302/3.0) or (SPAN 303/3.0 and SPAN 304/3.0).
SPAN 335/3.0  **El teatro Siglo de Oro**  3S
An introduction to Spanish Golden Age Theatre through the study of literary, historical and political concepts and theatre as a performative genre. The student will discover the great import of theatre during the era and acquire a better socio-cultural understanding of one of the most important periods in Spanish and European history and play production. Students may produce a play as part of the evaluation.
PREREQUISITE  *SPAN 261/6.0* or *SPAN 380/3.0*.
COREQUISITES  *(SPAN 301/3.0 and SPAN 302/3.0) or (SPAN 303/3.0 and SPAN 304/3.0).*

SPAN 344/3.0  **La sociedad española a través del cine**  3S
A study of changes in Spanish society as reflected in film and/or literature.
PREREQUISITE  *SPAN 261/6.0* or *SPAN 381/3.0*.
COREQUISITES  *(SPAN 301/3.0 and SPAN 302/3.0) or SPAN 303/3.0 and SPAN 304/3.0.*

SPAN 351/3.0  **Panorama literario latinoamericano I**  3S
A survey of the major authors and works of Latin American literature from 1492 to the end of the 19th century. Readings will include texts from all genres and will illustrate the main cultural and historical trends and movements.
PREREQUISITE  *SPAN 205/3.0* or *SPAN 201/6.0*.
EXCLUSIONS  No more than 6.0 units from *SPAN 251/6.0*; *SPAN 351/3.0*; *SPAN 352/3.0*.

SPAN 352/3.0  **Panorama literario latinoamericano II**  3S
A survey of the major authors and works of Latin American literature from the beginning of the 20th century to the present. Readings will include texts from all genres and will illustrate the main cultural and historical trends and movements.
PREREQUISITE  *SPAN 205/3.0* or *SPAN 201/6.0*.
EXCLUSIONS  No more than 6.0 units from *SPAN 251/6.0*; *SPAN 351/3.0*; *SPAN 352/3.0*.

SPAN 354/3.0  **Cultura femenina latinoamericana**  3S
A survey of women’s literary and cultural production in Latin America from the earliest writers to the present day. Texts will include poetry, essays, short stories, novels, art and film.
PREREQUISITE  *SPAN 251/6.0* or *SPAN 351/3.0 or SPAN 352/3.0*.
COREQUISITES  *(SPAN 301/3.0 and SPAN 302/3.0) or (SPAN 303/3.0 and SPAN 304/3.0).*

SPAN 380/3.0  **Panorama literario de España I**  3S
A survey of the major authors and works of literature of Spain from its beginnings to the Spanish Golden Age. Readings will include texts from all genres and will illustrate the main cultural and historical trends and movements.
PREREQUISITE  *SPAN 201/6.0* or *SPAN 205/3.0*.
EXCLUSIONS  No more than 6.0 units from *SPAN 261/6.0*; *SPAN 380/3.0;* *SPAN 381/3.0*.

SPAN 381/3.0  **Panorama literario de España II**  3S
A survey of the major authors and works of literature of Spain from the Enlightenment to the present. Readings will include texts from all genres and will illustrate the main cultural and historical trends and movements.
PREREQUISITE  *SPAN 201/6.0* or *SPAN 205/3.0*.
EXCLUSIONS  No more than 6.0 units from *SPAN 261/6.0*; *SPAN 380/3.0;* *SPAN 381/3.0*.

SPAN 401/3.0  **Advanced Grammar Through Translation I**  3L
This course aims to perfect the students’ ability to write and speak in Spanish, with intensive practice of advanced Spanish grammatical structures through translation exercises, as well as compositions and oral work.
PREREQUISITE  *SPAN 302/3.0* or *SPAN 304/3.0 (or permission of the Department of Languages, Literatures and Cultures).*
ONE WAY EXCLUSION  May not be taken with or after *SPAN 402/3.0*.

SPAN 402/3.0  **Advanced Grammar Through Translation II**  3L
This course aims to perfect the students’ ability to write and speak in Spanish, with intensive practice of advanced Spanish grammatical structures through translation exercises, as well as compositions and oral work.
PREREQUISITE  *SPAN 401/3.0 (or permission of the Department of Languages, Literatures and Cultures).*
**SPAN 406/3.0  Introducción a la teoría y el análisis literario**  3S
An introduction to contemporary literary theories and the analysis of Hispanic texts from reader-, structural- and author-oriented perspectives.

NOTE    Taught in English together with SPAN 316/3.0. Students concentrating in Spanish submit written assignments, tests, and examination in Spanish. Normally they will read Hispanic texts in the original.

PREREQUISITE   SPAN 251/6.0 or SPAN 352/3.0 (or permission of the Department of Languages, Literatures and Cultures).

EXCLUSION    No more than 3.0 units from SPAN 316/3.0; SPAN 406/3.0.

**SPAN 408/3.0  The Films of Pedro Almodóvar**  3S
Students will view and analyze a selection of Almodóvar’s films within the context of Spain and other countries. The study of gender, sexual, cultural and societal identity and other fundamentals of contemporary theory will be central to this course.

NOTE    Taught in English together with SPAN 308/3.0. Students concentrating in Spanish submit written assignments, tests, and examination in Spanish.

PREREQUISITE   SPAN 261/6.0 or SPAN 381/3.0 (or permission of the Department of Languages, Literatures and Cultures).

EXCLUSION    No more than 3.0 units from SPAN 308/3.0; SPAN 408/3.0.

**SPAN 410/3.0  Spanish Syntax**  3L
This course discusses the main concepts and methods of linguistic analysis, focusing on Spanish. The course introduces concepts and techniques of sentence structure analysis (syntax), word formation (morphology), and meaning (semantics).

PREREQUISITE   SPAN 302/3.0 or permission of the Department of Languages, Literatures and Cultures.

**SPAN 428/3.0  Gender, Development and Film in Latin America**  3S
This course will explore major themes of development in relation to gender in Latin America through its manifestation in film. Films will be chosen from all regions of Latin America, including Brazil.

NOTE    Taught in English together with SPAN 328/3.0. Students concentrating in Spanish submit written assignments, tests and examinations in Spanish.

PREREQUISITE   SPAN 251/6.0 or SPAN 351/3.0 or SPAN 352/3.0 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION    No more than 3.0 units from SPAN 328/3.0; SPAN 428/3.0.

**SPAN 458/3.0  Cine latinoamericano**  -3S
Explores representative works of the Latin American film industry, with a brief introduction to film analysis. Films will be examined in the context of cultural and historical issues, and their possible relation to literature. The course content may focus on one specific national cinema in a given year.

PREREQUISITE   SPAN 251/6.0 or SPAN 351/3.0 or SPAN 352/3.0 (or permission of the Department of Languages, Literatures and Cultures).

**SPAN 495/3.0  Literatura de España: Estudios independientes II**  3S
Seminar courses on topics in Spanish literature. Course details to be announced on website.

PREREQUISITE   Level 4 and registration in a SPAN Major or SLAS Specialization Plan or permission of the Department of Languages Literatures and Cultures.

**SPAN 496/3.0  Literatura de Hispanoamérica: Estudios independientes II**  3S
Seminar courses on topics in Spanish American literature. Course details to be announced on website.

PREREQUISITE   Level 4 and registration in a SPAN Major or SLAS Specialization Plan or permission of the Department of Languages Literatures and Cultures.

**SPAN 501/3.0  Literatura de España: Temas específicos**  3S
Seminar courses on topics in Spanish literature. Course details to be announced on website.

PREREQUISITE   Permission of the Department of Languages Literatures and Cultures.
SPAN 502/3.0  **Literatura de España: Estudios independientes**
Reading courses in selected fields of Peninsular literature to meet the needs of advanced students for whom a seminar course is not available. Course details to be announced on website.
PREREQUISITE  Permission of the Department of Languages Literatures and Cultures.

SPAN 503/3.0  **Literatura de Hispanoamérica: Temas específicos**
Seminar courses on topics in Spanish American literature. Course details to be announced on website.
PREREQUISITE  Permission of the Department of Languages Literatures and Cultures.

SPAN 504/3.0  **Literatura de Hispanoamérica: Estudios independientes**
Reading courses in selected fields of Spanish American literature to meet the needs of advanced students for whom a seminar course is not available. Course details to be announced on website.
PREREQUISITE  Permission of the Department of Languages Literatures and Cultures.
STAT 263/3.0  Introduction to Statistics  
A basic course in statistical methods with the necessary probability included. Topics include probability models, random variables, distributions, estimation, hypothesis testing, elementary nonparametric methods.

NOTE  Also offered as a distance course. Consult Continuing and Distance Studies.

RECOMMENDATION  An Ontario 4U mathematics course or equivalent.

EXCLUSION  No more than 3.0 units from BIOL 243/3.0; CHEE 209/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0 (formerly PHED 251/3.0); NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 261/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0; COMM 162/3.0.

ONE-WAY EXCLUSION  May not be taken with or after STAT 269/3.0.

STAT 268/3.0  Statistics and Probability I  
Basic ideas of probability theory such as random experiments, probabilities, random variables, expected values, independent events, joint distributions, conditional expectations, moment generating functions. Main results of probability theory including Chebyshev’s inequality, law of large numbers, central limit theorem. Introduction to statistical computing.

PREREQUISITE  MATH 120/6.0 or MATH 121/6.0 or MATH 124/3.0 or MATH 126/6.0.

EXCLUSION  No more than 3.0 units from STAT 251/3.0; STAT 351/3.0; STAT 268/3.0.

STAT 269/3.0  Statistics and Probability II  
Basic techniques of statistical estimation such as best unbiased estimates, moment estimates, maximum likelihood. Bayesian methods. Hypotheses testing. Classical distributions such as the t-distribution, F-distribution, beta distribution. These methods will be illustrated by simple linear regression. Statistical computing.

PREREQUISITES  (MATH 221/3.0 or MATH 280/3.0) and STAT 268/3.0, or permission of the Department.

EXCLUSION  No more than 3.0 units from STAT 251/3.0; STAT 351/3.0; STAT 268/3.0.

STAT 351/3.0  Probability I  
Basic probability theory; conditioning; densities, expectation; jointly distributed random variables, transformations, generating functions, limit laws. Distributions: binomial, Poisson, hypergeometric, uniform, exponential, gamma, normal, bivariate normal. Elementary random processes.

COREQUISITE  MATH 221/3.0 or MATH 280/3.0.

EXCLUSION  No more than 3.0 units from STAT 251/3.0; STAT 351/3.0; STAT 268/3.0.

EXCLUSION  No more than 3.0 units from STAT 351/3.0; STAT 356/3.0.

STAT 353/3.0  Probability II  
Intermediate probability theory as a basis for further study in mathematical statistics and stochastic processes; probability measures, expectations; modes of convergence of sequences of random variables; conditional expectations; independent systems of random variables; Gaussian systems; characteristic functions; Law of large numbers, Central limit theory; some notions of dependence.

PREREQUISITES  (STAT 251/3.0 or STAT 269/3.0 or STAT 351/3.0) and (MATH 110/6.0 or MATH 111/6.0 or MATH 112/3.0) and MATH 281/3.0.

STAT 361/3.0  Applied Methods in Statistics I  
A detailed study of simple and multiple linear regression, residuals and model adequacy. The least squares solution for the general linear regression model. Analysis of variance for regression and simple designed experiments; analysis of categorical data. Sample surveys: basic principles and methodology; random sampling, stratified sampling, ratio and regression estimates.

PREREQUISITES  (MATH 110/6.0 or MATH 111/6.0 or MATH 112/3.0) and (STAT 251/3.0 or STAT 269/3.0 or STAT 351/3.0 or STAT 367/3.0) and (STAT 261/3.0 or STAT 263/3.0 or STAT 267/3.0 or STAT 267/3.0 or STAT 367/3.0) or permission of the Department.

EXCLUSION  No more than 3.0 units from ECON 351/3.0; STAT 361/3.0.

STAT 455/3.0  Stochastic Processes and Applications  

PREREQUISITE  STAT 353/3.0 or (STAT 251/3.0 or STAT 269/3.0 or STAT 351/3.0 with permission of the Department).
STAT 460/3.0  
**Survey Sampling**  
3L  
A course in applied statistics with topics to include: planning a survey, questionnaire design, concepts in sampling from a finite population, simple random sampling, stratified sampling, cluster and systematic sampling, introduction to multi-phase and multi-stage surveys, sampling with unequal probabilities, sampling with replacement, and design based estimation. **PREREQUISITE** STAT 261/3.0 or STAT 269/3.0 or ([MATH 120/6.0 or MATH 121/6.0 or MATH 124/3.0 or MATH 126/6.0] and [a grade of A- in STAT 263/3.0]) or EPID 813/3.0.

STAT 462/3.0  
**Computational Data Analysis**  
2L;2P  
An introduction to computer software consistent with modern professional practice of statistics. Use of the statistical package SAS and S-PLUS. Given jointly with STAT 862/3.0.  
**COREQUISITE** STAT 361/3.0 or ECON 351/3.0, or permission of the Department.

STAT 463/3.0  
**Fundamentals of Statistical Inference**  
3L;1T  
Decision theory and Bayesian inference; principles of optimal statistical procedures; maximum likelihood principle; large sample theory for maximum likelihood estimates; principles of hypotheses testing and the Neyman-Pearson theory; generalized likelihood ratio tests; the chi-square, t, F and other distributions.  
**RECOMMENDATION** STAT 353/3.0.  
**PREREQUISITES** STAT 269/3.0 or (STAT 251/3.0 and STAT 261/3.0).  
**EQUIVALENCY** STAT 363/3.0.

STAT 464/3.0  
**Discrete Time Series Analysis**  
3L  
Autocorrelation and autocovariance, stationarity; ARIMA models; model identification and forecasting; spectral analysis. Applications to biological, physical and economic data.  
**PREREQUISITE** STAT 361/3.0 or ECON 351/3.0, or permission of the Department.

STAT 465/3.0  
**Quality Management**  
3L  
An overview of the statistical and lean manufacturing tools and techniques used in the measurement and improvement of quality in business, government and industry today. Topics include management and planning tools, Six Sigma approach, statistical process charting, process capability analysis, measurement system analysis and factorial and fractional factorial design of experiments.  
**PREREQUISITE** STAT 261/3.0 or STAT 263/3.0 or STAT 267/3.0 or STAT 269/3.0 or STAT 367/3.0 or permission of the Department.

STAT 471/3.0  
**Design and Analysis of Experiments**  
3L  
Analysis of variance for fixed, random and mixed models; analysis of covariance; distribution of mean squares; fractional factorial experiments, Latin squares and split plot designs. Modern topics such as Taguchi methods and designs for nonlinear models. Offered jointly with STAT 871/3.0.  
**PREREQUISITE** STAT 361/3.0 or permission of the Department.  
**EQUIVALENCY** STAT 362/3.0.

STAT 473/3.0  
**Generalized Linear Models**  
3L  
An introduction to advanced regression methods for binary, categorical, and count data. Major topics include maximum-likelihood method, binomial and Poisson regression, contingency tables, log linear models, and random effect models. The generalized linear models will be discussed both in theory and in applications to real data from a variety of sources. Given jointly with STAT 873/3.0.  
**PREREQUISITES** (STAT 268/3.0 or STAT 351/3.0) and STAT 361/3.0 and (STAT 363/3.0 or STAT 463/3.0), or permission of the Department.

STAT 486/3.0  
**Survival Analysis**  
3L  
Introduces the theory and application of survival analysis: survival distributions and their applications, parametric and nonparametric methods, proportional hazards models, counting process and proportional hazards regression, planning and designing clinical trials. Given jointly with STAT 886/3.0.  
**RECOMMENDATION** STAT 462/3.0.  
**PREREQUISITES** STAT 361/3.0 or ECON 351/3.0.
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>STAT 505/3.0</td>
<td>Topics in Statistics I</td>
<td>3L</td>
<td>An important topic in probability or statistics not covered in any other course. PREREQUISITE Permission of the Department.</td>
</tr>
<tr>
<td>STAT 506/3.0</td>
<td>Topics in Statistics II</td>
<td>3L</td>
<td>An important topic in probability or statistics not covered in any other course. PREREQUISITE Permission of the Department.</td>
</tr>
<tr>
<td>STAT 507/3.0</td>
<td>Topics in Statistics III</td>
<td>3L</td>
<td>An important topic in probability or statistics not covered in any other course. PREREQUISITE Permission of the Department.</td>
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<tr>
<td>STAT 569/3.0</td>
<td>Project in Statistical Applications</td>
<td></td>
<td>Investigation of a statistical problem having a genuine practical or theoretical interest, supervised by a faculty member. In some cases a group of students may work jointly. A written report is required. PREREQUISITE Permission of the Department.</td>
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<td>Course Code</td>
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<tr>
<td>STSC 300/3.0</td>
<td>Stage and Screen</td>
<td>3L/S/P</td>
<td>Practical course for Stage and Screen students which compares the production process of live theatre with that of film and television. Through a series of exercises, students will learn the fundamentals for writing, directing, acting and editing dramatic works for stage and screen. Enrolment is limited. NOTE Production supplies $50. PREREQUISITES FILM 250/6.0 and (DRAM 237/3.0 or DRAM 238/3.0) and DRAM 251/3.0.</td>
</tr>
<tr>
<td>STSC 309/3.0</td>
<td>Special Topics in Stage and Screen</td>
<td>3L/S/P</td>
<td>A seminar or workshop in selected areas of the curriculum in DRAM and FILM. Not offered every year. See Departments for details. PREREQUISITES (12.0 units from DRAM 201/3.0, DRAM 202/3.0, DRAM 205/3.0, DRAM 237/3.0, DRAM 238/3.0, DRAM 251/3.0) or (12.0 units from FILM 206/3.0, FILM 216/3.0, FILM 226/3.0, FILM 236/3.0, FILM 250/6.0) or permission of the Departments of Drama and Film and Media.</td>
</tr>
</tbody>
</table>
WRIT – The Writing Centre

WRIT 125/3.0  Effective Writing I
A study of the basic principles of academic writing, including a series of assignments that emphasize logical organization, stylistic clarity, and grammatical precision.
NOTE Offered only as a distance course. Consult Continuing and Distance Studies. EQUIVALENCY WRIT P75/3.0.

WRIT 175/3.0  Effective Writing II 3L/S
An intensive study of the essay-writing process, from techniques of prewriting and outlining through revising for grammatical correctness and argumentative clarity, with particular emphasis on critical reading skills. Enrolment is limited.
NOTE A student with a 100-level course with a writing component, such as DRAM, ENGL, FILM, HIST, PHIL, POLS, SOCY may alternatively use this as a prerequisite and should contact the instructor for permission to register in the course.
NOTE Also offered at the Bader International Study Centre, Herstmonceux.
PREREQUISITE (3.0 units from WRIT 125/3.0 or WRIT P75/3.0) or permission of the instructor.

WRIT 195/3.0  Modular Writing
Organized around a menu of ten genres, this course can be tailored to individual interests. Students select five modules, ranging from the business memorandum to the literary review. Complementing the modules is a mandatory Grammar and Mechanics assessment.
NOTE A student with a 100-level course with a writing component, such as DRAM, ENGL, FILM, HIST, PHIL, POLS, SOCY may alternatively use this as a prerequisite and should contact the instructor for permission to register in the course.
NOTE Offered only as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE (3.0 units from WRIT 125/3.0 or WRIT P75/3.0) or permission of the instructor.

WRIT 235/6.0  Writing in the Community 3L/S
An interdisciplinary course that employs a community service-learning model in order to develop specialized writing skills. Students will be actively involved in the completion of a writing project in the local community. Written and oral work will facilitate individual reflection on the writing process. Class time consisting of lectures, discussions, workshops, and presentations will encourage critical thinking, editing, and research skills.
PREREQUISITE (3.0 units from WRIT 125/3.0 or WRIT 175/3.0 or WRIT 195/3.0 or WRIT P75/3.0) or permission of the instructor.

WRIT 275/3.0  Analytical Writing 3L
An interdisciplinary course on analytical writing, applying selected principles of rhetoric and linguistics. Collaborative exercises and peer-edited essays are supplemented by critical reading of diverse articles and narratives. Enrolment is limited.
PREREQUISITE WRIT 175/3.0 or permission of the instructor.
WRIT 295/3.0  Literary Non-Fiction
A study of the essay as a literary form, including analysis of readings as well as a series of writing assignments. Complementing the assignments is a mandatory Grammar and Style component.
NOTE  A student with a 100-level course with a writing component, such as DRAM, ENGL, FILM, HIST, PHIL, POLS, SOCY may alternatively use this as a prerequisite and should contact the instructor for permission to register in the course.
NOTE  Offered only as a distance course. Consult Continuing and Distance Studies.
PREREQUISITE  (3.0 units from WRIT 125/3.0 or WRIT P75/3.0) or permission of the instructor.
XRAY 310/0.0  Didactic Training at EOSXT
Required Queen’s component for third-year students registered at the Eastern Ontario School of X-Ray Technology.
PREREQUISITE  Level 3 in the Collaborative Program in X-Ray Technology.

XRAY 410/0.0  Clinical Training at EOSXT
Required Queen’s component for fourth-year students registered at the Eastern Ontario School of X-Ray Technology.
PREREQUISITE  Level 4 in the Collaborative Program in X-Ray Technology.
Independent Study
Exceptionally qualified students entering their third or fourth year may take a program of independent study provided it has been approved both by the Associate Deans (Studies) and by the Department or Departments principally involved.

Requests for such a program must be received by the Office of the Associate Deans (Studies) one month before the start of the first term in which the student intends to undertake the program. Requests must include i) a detailed outline of the project, including its aims, the topics to be studied, and a preliminary list of readings; ii) the names of the faculty members supervising the project, including the principal coordinator; iii) the number of credits for which the project is to substitute; and iv) the method by which the student's performance is to be evaluated, and the method by which the grade or grades will be assigned.

The Associate Deans (Studies) may, in consultation with the student and faculty members involved, propose modifications in the project, particularly with respect to the number of course credits to be assigned to it. The Associate Dean (Studies) may require an interview with the student.

Course numbers assigned to independent study are specified under Numbering of Courses in this chapter. The departmental code assigned to the course will be that of the department which is closest to the material studied, provided it has agreed to take academic responsibility for the project.

A Department may approve an independent study program without permitting it to be counted toward a concentration in that Department. It is, consequently, the responsibility of students taking such programs to ensure that the concentration requirements for a degree will be met.
**Language Courses**
Credit will be allowed for successful completion of courses in languages other than English and other than those offered at Queen’s provided that:

The course is in a modern language, defined as one that is currently used by an existing culture;  
The course is offered by an accredited university, a school affiliated with such a university or by one of the language schools historically recognized by Queen’s;  
Criteria for determining credit equivalency will be by parameters currently in use for all courses, that is, a grade determined by the host institution, number of contact hours, learning objectives/outcomes, type and number of assignments; and  
The student has the course approved prior to departure by means of an International Letter of Permission, and supplies appropriate evidence of the above on return.  
Credit for such language courses will transfer as LANG P10/3.0, for a first course in a modern language, LANG P11/3.0 for a continuation of LANG P10, LANG 120/3.0, for an advanced-level course in a modern language and LANG 121/3.0 for a continuation of LANG 120/3.0. LANG credits will not be assessed above the 100 level.