



18-19

Faculty of Arts and Science
Calendar 2018-2019

Academic Calendar
Advisor Reference Version

This book belongs to:

Faculty of Arts and Science

Faculty of Arts and Science Calendar 2018-2019

(Please refer to the e-Calendar version for most up-to-date information)

ONE HUNDRED AND SEVENTY-EIGHTH 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 2018-2019 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.

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Mailing Address

Queen's University
Kingston, Ontario
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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 <http://www.queensu.ca/secretariat/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 2018-2019 *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 information of interest to prospective students is available on departmental websites that can be accessed from the Faculty of Arts and Science website.

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
First Floor, Dunning Hall, Queen's University
Kingston, Ontario
K7L 3N6

Telephone 613-533-2470
Fax 613-533-2467
Website www.queensu.ca/artsci/

SOLUS

SOLUS, the Student Online University System, provides students with a portal to, amongst other services, review their current academic standing, determine fees owing, enroll in or drop classes, participate in Plan selection (first-year students only), and 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:

REGULATIONS

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/policies.html>

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/policies.html>

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.

DEPARTMENTS

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 sections contain the following information:

- Contact information for the Department;
- A brief overview of the Department or unit's academic mission;
- Useful information for students regarding departmental policies;
- Details of Degree Programs and Plans and other study opportunities;

DEGREE PLANS, CERTIFICATES AND COURSE LISTS

Degree Programs

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 in SOLUS, under the “Total Unit Count” and (when applicable) “Other Program Requirements” headings. The “Total Unit Count” counts all courses taken to meet the requirements of 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. These sections of the *Calendar* outline the detailed requirements for each Plan, and indicate 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 in SOLUS in much the same format as may be found in this *Calendar*:

1. Core

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

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 in SOLUS, so appear as a course list in the *Calendar*. For example, GPHY_Physical is a course list of all the courses that may be used to fulfill the physical geography requirements of a Geography or Environmental Science Plan. The detailed course lists are located following the Degree Plan to which they pertain in the *Calendar* and should be used in conjunction with the Plans section of the *Calendar* and the Academic Advisement Tool in 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

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. Additional Requirements

Additional 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

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

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

Certificates

Certificates provide students with the opportunity for new expanded credentials that can help students develop both general and specific skills that meet their particular career needs.

COURSE LISTS

Detailed lists of courses that may be used to fulfill the various Plan requirements follow each Degree Plan. These lists should be used in conjunction with the Degree Plans sections 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:

i. 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 or 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 specified 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, and typically lead to further work. There are also 100 level courses which are intended primarily as electives and do not 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 typically 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.

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.

ii. 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.

iii. Course Title

iv. Course Description

v. Notes: when present, these indicate if the course is available at the Bader International Study Centre, if it is available through Continuing and Distance Studies or if there are any fees or special requirements associated with the course.

vi. Total Learning Hours that a typical student would spend in various activities associated with the course: L = Lectures; S=Seminars; Lb = Laboratories; T = Tutorials; G = Group Learning; I = Individual Instruction; O = Online Activities; Oc = Off-campus Activity; Pc = Practicum; P = Private Study

vii. 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 enrol in the course.

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

ix. 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 enrol in two courses that exclude one another in SOLUS. If a student does complete both courses, only one will be counted towards the degree program. In such a case, the Academic Advisement Report in SOLUS will indicate an exclusion warning.

x. 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 enrol 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 in the one-way exclusion statement followed by the course in question. Courses listed in one-way exclusions, if taken in the correct order, will both be credited towards the requirements of a degree program.

Definitions

admission	the Faculty's acceptance of an applicant as a student.
auditor	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 assignments or write examinations.
class	a particular offering of a given course.
corequisite	a requirement that must be fulfilled concurrently with another course.
course	a proscribed set of study and evaluation, used for academic credit towards a degree program.
core	a course that is required, or is selected from an extremely limited list of courses, in a Plan.
elective	a course freely chosen by the student.
equivalency	a pair of courses, 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.
exclusion	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 enrolment in any of the remaining courses on the list
GPA (grade point average)	the unit-weighted average grade point in a set of courses, based on a 4.3 grade point scale.
level	determined by the number of passed units completed: 0.0 - 23.9 units (level 1); 24.0 - 47.9 units (level 2); 48.0 - 83.9 units (level 3); 84.0 units and above (level 4).
one-way exclusion	a course that will prevent enrolment if taken with or before another course.
option	a course chosen from a limited list of courses specified in a Plan. The degree of choice may vary according to the Plan.
part-time student	may enrol in at most 9.0 units in each of the Fall or Winter Terms.
Plan	an approved set of courses required to focus in an area of study. The depth of focus may vary according to Plan type (Major, Minor, Medial, Specialization, General). More than one Plan may be required to obtain a degree.
prerequisite	a requirement that must be met prior to enrolment in a course.
program	an approved set of courses leading to a degree.
session	an academic period within a Term. Start and end dates for each Session are published annually under <i>Academic Dates</i> and <i>Key Dates</i> .
subject	a defined area of study.
supporting course	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.

Term an academic period during the calendar year.
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*.

unit the academic value of a course.

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 Dean (Studies) and by the Department or Departments principally involved.

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.

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 units for which the project is to substitute, based on an estimate of the amount of work to be covered by the project, taking into account the planned learning hours; 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 to the project, particularly with respect to the number of units 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 Course Numbers in the *How to Use the Arts and Science Calendar* section of the Calendar. 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.

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:

- a) The course is in a modern language, defined as one that is currently used by an existing culture;
- b) 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;
- c) 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
- d) 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 101/3.0, for a first course in a modern language, LANG 102/3.0 for a continuation of LANG 101/3.0, LANG 201/3.0, for an advanced-level course in a modern language and LANG 202/3.0 for a continuation of LANG 201/3.0.

2018-2019 FACULTY OF ARTS AND SCIENCE SESSIONAL DATES

MAY 2018	
1	Summer Term begins.
1	Tuition fees due in full for Summer Term classes (May-June/6W1 and May-July/12W Sessions).
7	Summer Term classes begin (May-June/6W1 and May-July/12W Sessions).
11	Students unable to register in Summer Term (May-June/6W1 and May-July/12W Sessions) by this date must appeal in writing to the Office of the Associate Dean (Studies). If the appeal to register late is granted, students must pay tuition fees in full.
11	Last date to add Summer Term classes (May-June/6W1 and May-July/12W Sessions).
11	Last date to drop Summer Term classes (May-June/6W1 Session) without financial penalty.
11	Last date to apply for admission to the Upper-Year Program at Bader International Study Centre for Summer Term (August Session).
18	Last date to drop Summer Term classes (May-July/12W Session) without financial penalty.
21	Victoria Day (classes will not be held).

JUNE 2018	
NOTE:	Spring 2018 Convocation dates will be published by the Office of the University Registrar in November 2017. Refer to http://www.queensu.ca/registrar/convocation/ceremonies to view these dates.
1	Last date to drop Summer Term classes (May-June/6W1 Session) without academic penalty.
1	Last date to apply to the University for admission as a part-time student for Fall Term.
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 for Fall Term.
1	Last date to apply to the University for upper-year full-time admission for Fall Term from another post-secondary institution.
7	Last date to apply for accommodation for an official examination conflict for the June, July and August examination sessions.
15	Last date for receipt of required documentation from students seeking admission for Fall Term to full- or part-time study, including transfer students, to ensure that an admission decision is made before the Term begins.
18	Summer Term classes end (May-June/6W1 Session).
21,22	Summer Term examinations in May-June/6W1 Session classes (TENTATIVE).
29	Last date to drop Summer Term classes (May-July/12W Session) without academic penalty.

JULY 2018	
1	Tuition fees due in full for Summer Term classes (July-August/6W2 Session).
2	Canada Day holiday (classes will not be held).
3	Summer Term classes begin (July-August/6W2 Session).
9	Students unable to register in Summer Term (July-August/6W2 Session) by this date must appeal in writing to the Office of the Associate Dean (Studies). If the appeal to register late is granted, students must pay tuition fees in full.
9	Last date to add Summer Term classes (July-August/6W2 Session).
9	Last date to drop Summer Term classes (July-August/6W2 Session) without financial penalty.

2018-2019 FACULTY OF ARTS AND SCIENCE SESSIONAL DATES

15	First date to apply in SOLUS to graduate in Fall 2018 (TENTATIVE).
16	Registration period for Fall and Winter classes begins (TENTATIVE).
27	Summer Term classes end (May-July/12W Session).
30	Last date to drop Summer Term classes (July-August/6W2 Session) without academic penalty.
31	Summer Term examinations in May-July/12W Session classes begin (TENTATIVE).
31	Last date to apply for admission to the Upper-Year Program at the Bader International Study Centre for Fall Term.

AUGUST 2018

1	Refer to http://www.queensu.ca/artsci_online/apply/dates-and-deadlines for deadlines for admission to Distance Studies for the Fall Term.
3	Registration period for Fall and Winter classes ends (TENTATIVE).
3	Summer Term examinations in May-July/12W Session classes end (TENTATIVE).
6	Civic Holiday (classes will not be held).
13	Summer Term classes end (July-August/6W2 Session).
15,16	Summer Term examinations in July-August/6W2 Session classes (TENTATIVE).
21	Time period to add and drop classes (open enrolment period) begins (TENTATIVE).
31	Summer Term ends.

SEPTEMBER 2018

1	Fall Term begins.
1	Tuition fees due in full for Fall Term classes.
1	Orientation Week begins (arrival day).
1	Welcoming Ceremony for new students.
3	Labour Day.
6	Fall Term classes begin.
19	Students unable to register in Fall Term by this date must appeal in writing to the Office of the Associate Dean (Studies). If the appeal to register late is granted, students must pay tuition fees in full.
19	Last date to add Fall Term and multi-term classes.
19	Last date to drop Fall Term and multi-term classes without financial penalty.
30	Residence, UHIP and Student Activity fees due in full.

OCTOBER 2018

8	Thanksgiving Day (classes will not be held).
15	Last date to apply in SOLUS to graduate in Fall 2018 (TENTATIVE).
16	University Day.
25,26	Fall mid-term break.

2018-2019 FACULTY OF ARTS AND SCIENCE SESSIONAL DATES

NOVEMBER 2018

NOTE:	Fall 2018 Convocation dates will be published by the Office of the University Registrar in May 2018. Refer to http://www.queensu.ca/registrar/convocation/ceremonies to view these dates.
2	Last date to drop Fall Term classes without academic penalty.
7	Last date to apply for accommodation for an official examination conflict for the December examination session.
9	Remembrance Day Service (classes cancelled 10:30-11:30 a.m.).
15	Last date to apply for admission to the Upper-Year Program at the Bader International Study Centre for Winter Term.
30	Fall Term classes end.

DECEMBER 2018

1	Refer to http://www.queensu.ca/artsci_online/apply/dates-and-deadlines for deadlines for admission to Distance Studies for the Winter Term.
1	Last date for Queen's students to apply for admission to a Dual or Second Degree Program for Winter Term.
1	First date to apply in SOLUS to graduate in Spring 2019 (TENTATIVE).
1-4	Fall Term pre-examination study period.
5-20	Final examinations in Fall Term classes and mid-year tests in multi-term classes.
6	Commemoration Day (examinations will not be held).
31	Fall Term ends.

JANUARY 2019

1	Winter Term begins.
1	New Year's Day (University closed; classes will not be held).
7	Winter Term classes begin.
10	Tuition fees due in full for Winter Term classes.
11	Last date to apply to the International Programs Office for exchange programs for 2019-2020.
18	Students unable to register in Winter Term by this date must appeal in writing to the Office of the Associate Dean (Studies). If the appeal to register late is granted, students must pay tuition fees in full.
18	Last date to add Winter Term classes.
18	Last date to drop Winter Term classes without financial penalty.

FEBRUARY 2019

4	Registration for Summer Term classes begins.
18	Family Day (classes will not be held).
19-22	Winter mid-term Reading Week.

2018-2019 FACULTY OF ARTS AND SCIENCE SESSIONAL DATES

MARCH 2019	
1	Last date to drop Winter Term and multi-term classes without academic penalty.
7	Last date to apply for accommodation for an official examination conflict for the April examination session.
30	Last date to apply for admission to the Upper-Year Program at the Bader International Study Centre for Summer Term (May-June Session).
31	Last date to apply to the University for upper-year full-time admission for Summer Term from another post-secondary institution.

APRIL 2019	
1	Refer to http://www.queensu.ca/artsci_online/apply/dates-and-deadlines for deadlines for admission to Distance Studies for the Summer Term.
1	Last date for Queen's students to apply for admission to a Dual Degree Program for Summer Term.
5	Winter Term classes end.
6-10	Winter Term pre-examination study period.
11-27	Final examinations in Winter Term and multi-term classes.
15	Last date for receipt of required documentation from students seeking admission for Summer Term to full- or part-time study, including transfer students, to ensure that an admission decision is made before the Term begins.
19	Good Friday (classes will not be held).
30	Last date to apply in SOLUS to graduate in Spring 2019 (TENTATIVE).
30	Winter Term ends.

MAY 2019	
1	Summer Term begins.
1	Tuition fees due in full for Summer Term classes (May-June/6W1 and May-July/12W Sessions).
6	Summer Term classes begin (May-June/6W1 and May-July/12W Sessions).
10	Students unable to register in Summer Term (May-June/6W1 and May-July/12W Sessions) by this date must appeal in writing to the Office of the Associate Dean (Studies). If the appeal to register late is granted, students must pay tuition fees in full.
10	Last date to add Summer Term classes (May-June/6W1 and May-July/12W Sessions).
10	Last date to drop Summer Term classes (May-June/6W1 Session) without financial penalty.
10	Last date to apply for admission to the Upper-Year Program at Bader International Study Centre for Summer Term (August Session).
17	Last date to drop Summer Term classes (May-July/12W Session) without financial penalty.
20	Victoria Day (classes will not be held).
31	Last date to drop Summer Term classes (May-June/6W1 Session) without academic penalty.

2018-2019 FACULTY OF ARTS AND SCIENCE SESSIONAL DATES

JUNE 2019	
NOTE:	Spring 2019 Convocation dates will be published by the Office of the University Registrar in November 2018. Refer to http://www.queensu.ca/registrar/convocation/ceremonies to view these dates.
1	Last date to apply to the University for admission as a part-time student for Fall Term.
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 for Fall Term.
1	Last date to apply to the University for upper-year full-time admission for Fall Term from another post-secondary institution.
7	Last date to apply for accommodation for an official examination conflict for the June, July and August examination sessions.
15	Last date for receipt of required documentation from students seeking admission for Fall Term to full- or part-time study, including transfer students, to ensure that an admission decision is made before the Term begins.
17	Summer Term classes end (May-June/6W1 Session).
20,21	Summer Term examinations in May-June/6W1 Session classes (TENTATIVE).
28	Last date to drop Summer Term classes (May-July/12W Session) without academic penalty.

JULY 2019	
1	Tuition fees due in full for Summer Term classes (July-August/6W2 Session).
1	Canada Day (classes will not be held).
2	Summer Term classes begin (July-August/6W2 Session).
8	Students unable to register in Summer Term (July-August/6W2 Session) by this date must appeal in writing to the Office of the Associate Dean (Studies). If the appeal to register late is granted, students must pay tuition fees in full.
8	Last date to add Summer Term classes (July-August/6W2 Session).
8	Last date to drop Summer Term classes (July-August/6W2 Session) without financial penalty.
15	Registration period for Fall and Winter classes begins (TENTATIVE).
15	First date to apply in SOLUS to graduate in Fall 2019 (TENTATIVE).
26	Summer Term classes end (May-July/12W Session).
29	Last date to drop Summer Term classes (July-August/6W2 Session) without academic penalty.
30	Summer Term examinations in May-July/12W Session classes begin (TENTATIVE).
31	Last date to apply for admission to the Upper-Year Program at the Bader International Study Centre for Fall Term.

AUGUST 2019	
1	Refer to http://www.queensu.ca/artsci_online/apply/dates-and-deadlines for deadlines for admission to Distance Studies for the Fall Term.
2	Registration period for Fall and Winter classes ends (TENTATIVE).
2	Summer Term examinations in May-July/12W Session classes end (TENTATIVE).
5	Civic Holiday (classes will not be held).

2018-2019 FACULTY OF ARTS AND SCIENCE SESSIONAL DATES

12	Summer Term classes end (July-August/6W2 Session).
14,15	Summer Term examinations in July-August/6W2 Session classes (TENTATIVE).
27	Time period to add and drop classes (open enrolment period) begins (TENTATIVE).
31	Summer Term ends.
31	Orientation Week begins (arrival day).
31	Welcoming Ceremony for new students.

SEPTEMBER 2019

1	Fall Term begins.
1	Tuition fees due in full for Fall Term classes.
2	Labour Day.
5	Fall Term classes begin.

By the Royal Charter granted to Queen's College on 16 October 1841, it is "willed, ordained, and granted that the said College shall be deemed and taken to be a University, and that the students in the said College shall have the liberty and faculty of taking the degree of Bachelor, Master, and Doctor in the several Arts Faculties". The degrees and certificates at present conferred through the Faculty of Arts and Science are outlined below.

Degree Programs in Arts and Science

1. To preserve sufficient alternatives for future study, students on a degree program are required to take, within the first 30.0 units in which they register, 18.0 units numbered 100 or above in three different subjects.
2. The following Programs will lead to a degree in the Faculty of Arts and Science:

A. Bachelor of Arts (Honours) [-BAH]

To consist of the following Plan types plus additional elective units to total 114.0 units (for students admitted to the Faculty of Arts and Science prior to the Fall Term 2017), or 120.0 units (for students admitted to the Faculty of Arts and Science in the Fall Term 2017 and later):

- i. Major (Arts): Consists of 60.0 core and option units and up to 12.0 supporting units: 6.0 units at the 100 level or above, 18.0 units at the 200 level or above, 18.0 units at the 300 level or above, and the remaining units at any level.
- ii. Major (Arts) – Minor (Arts, Science or Computing): Consists of the Major (Arts) Plan requirements and the General (Arts, Science or Computing) Plan requirements in a second subject.
- iii. Medial (Arts): Two Medial (Arts) Plans in two different subjects. Each Medial (Arts) Plan consists of 42.0 core and option units and up to 6.0 supporting units: 6.0 units at the 100 level or above, 12.0 units at the 200 level or above, 12.0 units at the 300 level or above, and the remaining units at any level. The MATH and STAT Medial Plans may not be combined. See Section 4.A. for restrictions on Plan combinations.
- iv. Specialization (Arts): Consists of 84.0 core and option units in two or more disciplines, organized around a particular period, culture, or problem.

The Bachelor of Arts (Honours) degree may be taken concurrently with the Bachelor of Education degree offered by the Faculty of Education.

The Bachelor of Arts (Honours) degree plus 6.0 units in professional internship courses will result in a Bachelor of Science (Honours) degree with Professional Internship.

B. Bachelor of Arts [-BA]

To consist of the following Plan type plus additional elective units to total 90.0 units:

- i. General (Arts): Consists of 30.0 core and option units and up to 6.0 supporting units: 6.0 units at the 100 level or above, 12.0 units at the 200 level or above, and the remaining units at any level. These Plan requirements may alternatively be used towards the Minor (Arts) requirements of a Major-Minor Plan combination.

C. Bachelor of Computing (Honours) [-BCH]

To consist of the following Plan types plus additional elective units to total 120.0 units:

- i. Major (Computing): Consists of 60.0 core and option units and up to 12.0 supporting units.
- ii. Major (Computing) – Minor (Arts or Science): Consists of the Major (Computing) Plan requirements and the General (Arts or Science) Plan requirements in a second subject.
- iii. Specialization (Computing): Consists of a maximum of 108.0 core and option units.

D. Bachelor of Computing [-BCP]

To consist of the following Plan type plus additional elective units to total 90.0 units. At least 48.0 units must be in the Sciences and/or Mathematics.

- i. General (Computing): Consists of 36.0 core and option units and 12.0 supporting units: 6.0 units at the 100 level, 12.0 units at the 200 level, and the remaining units at any level.

E. Bachelor of Fine Art (Honours) [-BFH]

To consist of the following Plan types plus additional elective units to total 120.0 units:

- i. Major (Fine Art): Consists of 60.0 core and option units and up to 12.0 supporting units.
- ii. Major (Fine Art) – Minor (Arts, Science or Computing): Consists of the Major (Fine Art) Plan requirements and the General (Arts, Science or Computing) Plan requirements in a second subject.

The Bachelor of Fine Art (Honours) degree may be taken concurrently with the Bachelor of Education degree offered by the Faculty of Education.

F. Bachelor of Fine Art [-BFA]

To consist of the following Plan type plus additional elective units to total 90.0 units:

- i. General (Fine Art): Consists of 66.0 core and option units. These Plan requirements may *not* be used towards the Minor requirements of a Major-Minor Plan combination.

G. Bachelor of Music [-BMS]

To consist of the following Plan type plus additional elective units to total 126.0 units:

- i. Specialization (Music): Consists of a maximum of 108.0 core and option units.

The Bachelor of Music degree may be taken concurrently with the Bachelor of Education degree offered by the Faculty of Education.

H. Bachelor of Music Theatre [-BMT]

To consist of the following Plan type plus additional elective units to total 90.0 units:

- i. General (Music Theatre): Consists of 69.0 core and option units. These Plan requirements may *not* be used towards the Minor requirements of a Major-Minor Plan combination.

I. Bachelor of Physical and Health Education (Honours) [-BPH]

To consist of the following Plan type plus additional elective units to total 120.0 units:

- i. Specialization (Physical and Health Education): Consists of a maximum of 81.0 core and option units.

J. Bachelor of Physical and Health Education [-BPE]

To consist of the following Plan type plus additional elective units to total 90.0 units:

- i. General (Physical and Health Education): Consists of 57.0 core and option units. These Plan requirements may *not* be used towards the Minor requirements of a Major-Minor Plan combination.

K. Bachelor of Science (Honours) [-BSH]

To consist of the following Plan types plus additional elective units to total 120.0 units:

- i. Major (Science): Consists of 60.0 core and option units and up to 12.0 supporting units.
- ii. Major (Science) – Minor (Arts, Science or Computing): Consists of the Major (Science) Plan requirements and the General (Arts, Science or Computing) Plan requirements in a second subject. See Section 4.B. for restrictions on Plan combinations.
- iii. Specialization (Science): Consists of a maximum of 108.0 core and option units.

The Bachelor of Science (Honours) degree may be taken concurrently with the Bachelor of Education degree offered by the Faculty of Education.

The Bachelor of Science (Honours) degree plus 6.0 units in professional internship courses will result in a Bachelor of Science (Honours) degree with Professional Internship.

L. Bachelor of Science [-BSC]

To consist of the following Plan type plus additional elective units to total 90.0 units. At least 48.0 units must be in the Sciences and/or Mathematics.

- i. General (Science): Consists of 30.0 to 36.0 core and option units and up to 12.0 supporting units: 6.0 units at the 100 level, 12.0 units at the 200 level, and the remaining units at any level. These Plan requirements may alternatively be used towards the Minor (Science) requirements of a Major-Minor Plan combination.

3. Overlap in Degree Plans

The following rules indicate how courses are to be counted for credit towards a Program where the course requirements of two Plans included in said Program overlap.

- A. Core and Option Courses: When Plans are combined, the core and option courses used to fulfill the requirements of one Plan cannot be counted towards the core and option requirements of the second Plan.

- i. Major-Minor combinations

Where there is overlap in the core, the course(s) must be counted as part of the Major Plan and alternate course(s) must be chosen for the Minor Plan, in consultation with the Department administering the Minor Plan. Alternates may not be allowed where the Department believes that such alternates will compromise the integrity of the degree. Where there is overlap between the core in one Plan, and the options in another, or between options in the two Plans, a different option must be chosen.

- ii. Medial combinations

Where there is overlap in the core, alternate course(s) must be chosen, in consultation with both Departments administering the Medial Plans.

Alternates may not be allowed where the Departments believe that such alternates will compromise the integrity of the degree. Where there is overlap between the core in one Plan, and the options in another, or between options in the two Plans, a different option must be chosen.

- B. Supporting and Additional Required Courses: When Plans are combined the supporting courses and any additional required courses in one Plan may be counted towards any of the core, option, supporting or additional requirements of the second Plan.

4. Plan Restrictions

Due to significant overlap with required courses in two Plans, the following restrictions apply to Plan combinations:

- A. The MATH and STAT medial Plans may not be combined.
- B. The following Major-Minor Plans may not be combined:
 - i. BIOL Major – BCHM Minor
 - ii. CHEM Major – BCHM Minor
 - iii. LISC Major – BCHM Minor
 - iv. BCHM Major – LISC Minor

Certificate Programs in Arts and Science

- 5. Programs that consist of between 12.0 and 18.0 core and option units will lead to a Certificate in the Faculty of Arts and Science.

Certificate Programs may be taken concurrently with any Queen's Bachelor degree, or as stand-alone credentials. Students who are registered in a degree program as well as a certificate program(s) may count up to 50% of the units required for the certificate towards the requirements of both the certificate and the degree program. The remaining units must be completed in addition to those required for the degree program.

6. Overlap in Degree Plans and Certificates

When a student registers in one or more Plans and one or more certificate programs, the core, option and supporting courses used to fulfill the requirements of the Plan can also be counted towards the core and option requirements of the certificate(s), subject to the limitation in Regulation 5 above.

7. Electives

Electives are defined as those courses chosen by the student to fulfill all the remaining unit requirements of a Program and which are not defined by the Plan(s) it contains.

- A. Electives may be chosen freely from the following list of subject codes, subject only to those qualifications noted in **7.B.** below, and prerequisites:

ASC_Course Catalogue

ANAT; ANSH; ARAB; ARTF; ARTH; ASTR;
BCHM; BIOL; BIOM; BISC;
CANC; CHEM; CHIN; CISC; CLST; COCA; COGS; COMP; CRSS; CWRI;
DDHT; DEVS; DRAM;
ECON; EMPR; ENGL; ENGX; ENIN; ENSC; EPID;
FILM; FREN; FRST;
GEOL; GNDS; GPHY; GREK; GRMN;
HEBR; HIST; HLTH;
IDIS; INDG; INTS; INUK; ITLN;
JAPN; JWST;
KINE; KNPE;
LANG; LATN; LIBS; LING; LISC; LLCU;
MATH; MICR; MOHK; MUSC; MUTH;
NSCI;
PACT; PATH; PHAR; PHED; PHGY; PHIL; PHYS; POLS; PORT; PPEC; PSYC;
RELS;
SOCY; SOFT; SPAN; STAT; STSC; SURP;
UNSP;
WRIT;

- B. The following qualifications apply to the list in **7.A.**:

- i. No courses denoted as exclusions or equivalencies;
- ii. Except for the Bachelor of Fine Art and Bachelor of Fine Art (Honours) Programs, no more than 24.0 units in ARTF;
- iii. Only in the Bachelor of Physical and Health Education and Bachelor of Physical and Health Education (Honours) Programs, PACT courses may be used;
- iv. Only in the Bachelor of Arts and Bachelor of Science Programs, Geography Plans, up to 6.0 units may be used 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;
- v. Up to 12.0 units from MUSC_Ensembles (MUSC 100/1.5; MUSC 112/1.5; MUSC 115/1.5; *MUSC 160-169/1.5; MUSC 178/1.5; MUSC 179/1.5; MUSC 200/1.5; MUSC 212/1.5; MUSC 215/1.5; MUSC 260-269/1.5; MUSC 278/1.5; MUSC 279/1.5; MUSC 300/1.5; MUSC 312/1.5; MUSC 315/1.5; MUSC 360-369/1.5; MUSC 378/1.5; MUSC 379/1.5; MUSC 400/1.5; MUSC 412/1.5; MUSC 415/1.5; MUSC 460-469/1.5; MUSC 478/1.5; MUSC 479/1.5;*) but only if completed in 2013-14 or later.

8. Courses in Other Faculties and Schools

With the exception of the Plans indicated below, a maximum of 6.0 units from courses offered by other Faculties and Schools may be counted toward the Program and/or Plan requirements of any degree or certificate in the Faculty of Arts and Science.

Students who transfer from another post-secondary institution may however count up to 24.0 units in courses that transfer as non-Arts and Science courses toward the Program and Plan requirements. Such

students may not count further courses offered by other Faculties and Schools at Queen's toward the requirements of any degree or certificate in the Faculty of Arts and Science.

Subject to the limitation above, the following courses offered by other Faculties and Schools at Queen's are approved for Arts and Science students:

A. Faculty of Engineering and Applied Science

(elective) MECH 333/3.0;

(Biotechnology Plan only) CHEE 229/3.0; CHEE 342/3.0; CHEE 380/3.0; CHEE 405/3.0; CHEE 440/3.0; CHEE 450/3.0; CHEE 484/3.0

(Computing Plans only) APSC 221/3.0; ELEC 470/3.0; ELEC 471/3.0; ELEC 474/3.0; ELEC 476/3.0; ELEC 478/3.0

(Certificate in Entrepreneurship and Innovation only) 9.0 units from CHEE 302/3.0; *BMED 271/3.0*; *BMED 471/3.0*; COMM 201/3.0; GLPH 271/3.0; GLPH 471/3.0; LAW 204/3.0

Other courses from the Faculty of Engineering and Applied Science may be used towards both Program and Plan requirements in the Faculty of Arts and Science, subject to (in the case of Plans) departmental permission and (in the case of Program requirements) permission of the Associate Dean (Studies). Permission to enrol in any Engineering and Applied Science course must be sought from both the Associate Dean (Academic) in the Faculty of Engineering and Applied Science and the Associate Dean (Studies) in the Faculty of Arts and Science (Academic Regulation **3.6**). Students who transfer from the Faculty of Engineering and Applied Science may also use approved courses towards the Program and Plan requirements in Arts and Science (Admission Regulation **5.3**). Those courses usable in the new degree Program and Plan, together with their Arts and Science equivalencies, shall be communicated to the student upon admission to the Faculty of Arts and Science. Note that the unit weighting system in the Faculty of Engineering and Applied Science differs from that in the Faculty of Arts and Science. Therefore, upon acceptance of any course from the Faculty of Engineering and Applied Science, the unit weighting towards Arts and Science degree requirements shall be at the discretion of the Associate Dean (Studies). Usually, a one-term course shall count as 3.0 units and a two-term course as 6.0 units. The Academic Advisement tool will be reprogrammed accordingly to reflect this change in weighting.

B. Faculty of Health Sciences

(elective) BMED 270/3.0; *BMED 271/3.0*; BMED 370/3.0; BMED 372/3.0; BMED 373/3.0; BMED 380/3.0; BMED 381/3.0; BMED 383/3.0; BMED 384/3.0; BMED 470/3.0; *BMED 471/3.0*; BMED 473/3.0; BMED 480/3.0; BMED 482/3.0; BMED 483/3.0; GLPH 271/3.0; GLPH 471/3.0; GLPH 472/3.0; NURS 100/3.0; NURS 323/3.0; NURS 326/3.0; NURS 425/3.0

(Biochemistry and Life Sciences Plans only) 9.0 units from BMED 270/3.0; BMED 370/3.0; BMED 372/3.0; BMED 373/3.0; BMED 380/3.0; BMED 381/3.0; BMED 383/3.0; BMED 384/3.0; BMED 470/3.0; BMED 473/3.0; BMED 480/3.0; BMED 482/3.0; BMED 483/3.0

(Certificate in Entrepreneurship and Innovation only) 9.0 units from *BMED 271/3.0*; *BMED 471/3.0*; CHEE 302/3.0; COMM 201/3.0; GLPH 271/3.0; GLPH 471/3.0; LAW 204/3.0

Courses from the School of Nursing other than those listed above may be used towards the Program and Plan requirements in the Faculty of Arts and Science, subject to (in the case of Plan requirements) departmental permission and (in the case of Program requirements) permission of the Associate Dean (Studies). Students who transfer from the School of Nursing may also use approved courses towards the Program and Plan requirements in Arts and Science (Admission Regulation **5.3**).

Students who transfer from the Bachelor of Health Sciences program may use up to 12.0 units in BMED courses towards the Program and Plan requirements in Arts and Science (Admission Regulation **5.3**).

C. Faculty of Law

(elective) LAW 201/3.0; LAW 202/3.0; LAW 203/3.0; LAW 204/3.0; LAW 205/3.0; LAW 206/3.0; LAW 207/3.0

(Political Studies Plans only) LAW 201/3.0

(Gender Studies Plans only) LAW 516/3.0; LAW 533/3.0

(Certificate in Entrepreneurship and Innovation only) 9.0 units from LAW 204/3.0; *BMED 271/3.0*; *BMED 471/3.0*; CHEE 302/3.0; COMM 201/3.0; GLPH 271/3.0; GLPH 471/3.0

D. Smith School of Business

(elective) COMM courses numbered below 600

(Economics Plans only) COMM 211/3.0; COMM 221/3.0

(Applied Economics Plan only) 9.0 units from COMM 211/3.0; COMM 221/3.0; COMM 311/3.0; COMM 313/3.0; COMM 322/3.0; COMM 323/3.0; COMM 324/3.0; COMM 325/3.0; COMM 326/3.0; COMM 327/3.0; COMM 329/3.0

(Certificate in Entrepreneurship and Innovation only) 9.0 units from COMM 201/3.0; *BMED 271/3.0*; *BMED 471/3.0*; CHEE 302/3.0; GLPH 271/3.0; GLPH 471/3.0; LAW 204/3.0

Students who transfer from the Smith School of Business may use up to 24.0 units in COMM courses towards the Program and Plan requirements in Arts and Science (Admission Regulation **5.3**). Students in the Applied Economics Major may use up to the maximum number of COMM courses allowed as options in that Plan.

9. Courses in the Sciences and Mathematics

All B.Sc. and B.Cmp. General (Science or Computing) degrees require 48.0 units to be chosen from the Sciences and/or Mathematics. In addition, some Plans have similar requirements. Unless specifically defined in a particular Plan, courses in the Sciences and Mathematics shall be deemed as follows:

ASC_Science

ANAT;

ASTR;

BCHM;

BIOL;

BIOM;

BMED 270/3.0; BMED 370/3.0; BMED 372/3.0; BMED 380/3.0; BMED 381/3.0; BMED 383/3.0; BMED 384/3.0; BMED 470/3.0; BMED 473/3.0; BMED 480/3.0; BMED 482/3.0; BMED 483/3.0;

CANC;

CHEE 209/3.0;

CHEM;

CISC;

COGS;

COMM 162/3.0;

COMP;

CRSS;

DDHT;

ECON 250/3.0;

ENSC 201/3.0; ENSC 301/3.0; ENSC 307/3.0; ENSC 320/3.0; ENSC 407/3.0; ENSC 425/3.0; ENSC 471/3.0; ENSC 480/3.0; ENSC 481/3.0;

EPID;

GEOL;

GLPH 472/3.0;

GPHY_Physical;

GPHY_Tech/Methods;

HLTH 230/3.0; HLTH 331/3.0;

KNPE 125/3.0; KNPE 153/3.0; KNPE 225/3.0; KNPE 227/3.0; KNPE 251/3.0; KNPE 254/3.0; KNPE 255/3.0; KNPE 261/3.0; KNPE 327/3.0; KNPE 339/3.0; KNPE 354/3.0; KNPE 355/3.0; KNPE 425/3.0; KNPE 427/3.0; KNPE 429/3.0; KNPE 439/3.0; KNPE 450/3.0; KNPE 454/3.0; KNPE 455/3.0; KNPE 459/3.0; KNPE 493/3.0;

LISC;

MATH;
MICR;
NSCI;
NURS 323/3.0; NURS 324/3.0;
PATH;
PHAR;
PHGY;
PHYS;
POLS 385/3.0;
PSYC 100/6.0; PSYC 101/3.0; PSYC 103/3.0; PSYC 202/3.0; PSYC 203/3.0; PSYC 205/3.0; PSYC 215/3.0; PSYC 221/3.0; PSYC 271/3.0, *PSYC 300/6.0*; PSYC 301/3.0; PSYC 302/3.0; PSYC 450/3.0; *PSYC 475/3.0*;
PSYC_Cluster_A;
SOCY 210/3.0; SOCY 211/3.0;
SOFT;
STAT

(Note that the GPHY and PSYC course lists noted here may be found in the Degree Plans and Course Lists section of this *Calendar*.)

10. Courses in the Humanities, Languages and Social Sciences

Some B.Comp.(Honours) degrees require Complementary Courses to be chosen from the Humanities, Languages or Social Sciences. In addition, some other Plans have similar requirements. Unless specifically defined in a particular Plan, courses in the Humanities, Languages and Social Sciences shall be deemed as follows:

ASC_Humanities_Languages_Social_Sciences

ARTE; ARTH;
BISC;
BMED 373/3.0;
CLST; COCA; CWRI;
DEVS; DRAM;
ECON; EMPR; ENGL; ENGX; ENIN; ENSC;
FILM; FRST;
GLPH 271/3.0; GLPH 471/3.0;
GNDS; GPHY_Human;
HIST;
HLTH 101/3.0; HLTH 102/3.0; HLTH 200/3.0; HLTH 205/3.0; HLTH 235/3.0; HLTH 237/3.0; HLTH 252/3.0;
HLTH 270/3.0; HLTH 300/3.0; HLTH 305/3.0; HLTH 315/3.0; HLTH 323/3.0; HLTH 332/3.0; HLTH 333/3.0;
HLTH 334/3.0; HLTH 350/3.0; HLTH 352/3.0; HLTH 397/3.0; HLTH 401/3.0; HLTH 402/3.0; HLTH 403/3.0;
HLTH 404/3.0; HLTH 415/3.0; HLTH 430/3.0; HLTH 434/3.0; HLTH 435/3.0; HLTH 445/3.0; HLTH 455/3.0;
HLTH 456/3.0; HLTH 491/3.0; HLTH 493/3.0; HLTH 495/3.0; HLTH 497/3.0; HLTH 595/6.0;
IDIS; INTS;
JWST;
KINE; KNPE 253/3.0; KNPE 337/3.0; KNPE 353/3.0; KNPE 363/3.0; KNPE 365/3.0; KNPE 367/3.0; KNPE 397/3.0; KNPE 463/3.0; KNPE 465/3.0; KNPE 473/3.0;
LANG; LANG_Languages; LIBS; LING; LLCU;
MUSC; MUTH;
PACT; PHED; PHIL; POLS; PPEC;
PSYC 100/6.0; PSYC 101/3.0; PSYC 102/3.0; PSYC 231/3.0; PSYC 241/3.0; PSYC 235/6.0; PSYC 236/3.0; PSYC 251/3.0; PSYC_Cluster_B;
RELS;
SOCY; STSC;
WRIT

(Note that the GPHY, LANG and PSYC course lists noted here may be found in the Degree Plans and Course Lists section of this *Calendar*.)

Effective September 2016, and with the exception of students who have transferred from another Faculty or School into the Faculty of Arts and Science, **a maximum of 6.0 units from courses offered by other Faculties and Schools** may be counted towards the Program and/or Plan requirements of any degree in the Faculty of Arts and Science. Policies related to courses in specific Faculties/Schools are listed below.

Faculty of Engineering and Applied Science

Faculty Office Beamish Munro Hall, Room 300

Faculty Office Telephone 613-533-2055

Website: <http://calendar.engineering.queensu.ca>

A limited number of Engineering courses are open to Arts and Science students. See the Academic Degree Programs section **8.A.** for the regulations concerning the courses that may be counted towards a degree in Arts and Science.

Faculty of Health Sciences

Faculty Office Botterell Hall, Room 563

Faculty Office E-Mail Address bhsc@queensu.ca

Faculty Office Telephone 613-533-2566

Website: <https://bhsc.queensu.ca/academic-calendar>

The following Health Sciences courses are open to Arts and Science students, subject to the limit stated above and in Academic Programs section **6.B.** For a complete description, see the Bachelor of Health Sciences website at <https://bhsc.queensu.ca>.

BMED 270/3.0 **Fundamentals of Research Methodology**

PREREQUISITE Level 2 and STAT 263/3.0 or permission of the instructor.

EXCLUSION No more than 3.0 units from BMED 270/3.0; HLTH 252/3.0; PSYC 203/3.0; SOCY 210/3.0; GPHY 240/3.0.

BMED 370/3.0 **Genetics and Genomics**

PREREQUISITE Level 3 or above and one of (BCHM 218/3.0 or BCHM 270/3.0) or permission of the instructor.

EXCLUSION No more than 3.0 units from BIOL 331/3.0 and BMED 370/3.0.

BMED 372/3.0 **Reproduction and Development**

PREREQUISITE Level 3 or above and (ANAT 100/3.0 or ANAT 101/3.0) and [(PHGY 215/3.0 and PHGY 216/3.0) or (PHGY 210/6.0 or PHGY 214/6.0)], or permission of the instructor.

BMED 373/3.0 **Health Ethics, Law and Policy**

PREREQUISITE Level 3 or above and BMED 173/3.0, or permission of the instructor.

BMED 380/3.0 **Evolutionary Biology of Cancer**

PREREQUISITE Level 3 or above and one of (MICR 270/3.0; BCHM 270/3.0; or MICR 360/3.0) and one of (BCHM 270/3.0 or BCHM 218/3.0) or permission of the instructor.

COREQUISITE MICR 360/3.0

BMED 381/3.0 **Clinical and Diagnostic Chemistry**

PREREQUISITE Level 3 or above and one of (BCHM 270/3.0 or BCHM 218/3.0) or permission of the instructor.

BMED 383/3.0 **Advanced Research Methodologies**

PREREQUISITE Level 3 or above and BMED 270/3.0 or EPID 301/3.0 or HLTH 252/3.0 or PSYC 203/3.0 or SOCY 210/3.0 or permission of the instructor

BMED 384/3.0 **Integrative Laboratory Studies**

PREREQUISITE Level 3 or above and (one of ANAT 100/3.0 or ANAT 101/3.0), and [(PHGY 215/3.0 and PHGY 216/3.0) or one of (PHGY 210/6.0 or PHGY 214/6.0)], and (one of MICR 270/3.0 or MICR 271/3.0 or MICR 221/3.0) and (one of PHAR 230/3.0 or PHAR 270/3.0 or PHAR 340/3.0) and (one of BCHM 270/3.0 OR BCHM 218/3.0), or permission from the instructor.

EXCLUSION No more than 3.0 units from BMED 384/3.0 or LISC 391/3.0

BMED 470/3.0 **Principles of 'Omics'**

PREREQUISITE Level 4 and one of (BMED 370/3.0 or BIOL 331/3.0) or permission of the instructor.

BMED 473/3.0 Development Origins of Health and Disease

PREREQUISITE Level 4 and PHAR 100/3.0 and BMED 372/3.0 or permission from the instructor.

BMED 480/3.0 Clinical Applications of Human Anatomy

PREREQUISITE Level 4 and (one of PHGY 170/3.0 or BIOL 102/3.0) and (one of ANAT 270/3.0 or ANAT 215/3.0 or ANAT 216/3.0 or ANAT 315/3.0 or ANAT 316/3.0) or permission of the instructor.

BMED 482/3.0 Proteomics and Metabolomics

PREREQUISITE Level 4 and [(one of BCHM 310/9.0 or BCHM 315/3.0) or registration in a Biochemistry Major or Specialization Plan] or permission of the instructor. Course re-coded as ASC course BCHM 482/3.0

BMED 483/3.0 Advanced Topics in Infectious Diseases

PREREQUISITE Level 4 and one of (MICR 270/3.0 or MICR 271/3.0 or MICR 221/3.0), and one of (MICR 382/3.0 or MICR 320/3.0), and one of (BMED 386/3.0 or MICR 360/3.0), or equivalent courses with permission from the instructor.

GLPH 271/3.0 Global and Population Health

PREREQUISITE Level 2 and above or permission of the instructor.

EXCLUSION No more than 3.0 units from HLTH 205/3.0; GLPH 271/3.0; *BMED 271/3.0*.

EQUIVALENCY *BMED 271/3.0*

GLPH 471/3.0 Advanced Global and Population Health

PREREQUISITE Level 4 and (*BMED 271/3.0* or GLPH 271/3.0) or permission of the instructor

EQUIVALENCY *BMED 471/30*

GLPH 472/3.0 Special Populations: Neonatal to End-Of-Life Care

PREREQUISITE Level 4 and BMED 373/3.0 or permission of instructor.

Faculty of Law

Faculty Office Sir John A. Macdonald Hall, 128 Union Street

Faculty Office Telephone 613-533-2220

Website: <https://law.queensu.ca/jd-studies/jd-academic-calendar>

The following Law courses are open to Arts and Science students, subject to the limit stated above and in Academic Programs section **6.B**. Students must meet the prerequisite indicated in order to enrol in these courses during the summer class selection period.

LAW 201/3.0 Introduction to Canadian Law

PREREQUISITE Level 2 or above.

LAW 202/3.0 Aboriginal Law

RECOMMENDATION LAW 201/3.0.

PREREQUISITE Level 2 or above.

LAW 203/3.0 Workplace Law

RECOMMENDATION LAW 201/3.0.

PREREQUISITE Level 2 or above.

EXCLUSION No more than 3.0 units from EMPR 210/3.0; LAW 203/3.0.

LAW 204/3.0 Corporate Law

RECOMMENDATION LAW 201/3.0.

PREREQUISITE Level 2 or above.

EXCLUSION No more than 3.0 units from COMM 381/3.0; COMM 382/3.0; LAW 204/3.0.

LAW 205/3.0 Public and Constitutional Law

RECOMMENDATION LAW 201/3.0.

PREREQUISITE Level 2 or above.

LAW 206/3.0 Intellectual Property Law

RECOMMENDATION LAW 201/3.0.

PREREQUISITE Level 2 or above.

LAW 207/3.0 International Law

RECOMMENDATION LAW 201/3.0.

PREREQUISITE Level 2 or above.

School of Nursing

Nursing Office Cataraqui Building, 92 Barrie Street

Nursing Telephone 613-533-2668

Website: <https://nursing.queensu.ca/undergraduate-programs>

The following Nursing courses are open to Arts and Science students, subject to the limit stated above and in Academic Programs section **6.B**. For a complete description, see the School of Nursing *Web Calendar* at https://qshare.queensu.ca/Users01/nursing/public/calendar/Academic_Calendar.pdf.

NURS 100/3.0 Nutrition and Health

EXCLUSION No more than 3.0 units from HLTH 230/3.0; NURS 100/3.0

NURS 323/3.0 Introduction to Statistics

PREREQUISITE Level 2 or above and registration in a HLTH Medial or HLTH-M-BAH or KINE-P-BSH Plan or BPHEH Program.

EXCLUSION BIOL 243/3.0; COMM 162/3.0; 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 263/3.0; STAT 268/3.0; STAT 269/3.0; STAT 351/3.0

NURS 324/3.0 Nursing – Principles and Applications of Nursing Research

PREREQUISITE Registration in the BNSc Program or by permission of instructor.

NURS 346/3.0 Professional Nursing

PREREQUISITE Level 2 or above or permission of the instructor

NURS 425/3.0 Managing for Success

PREREQUISITE Level 3 or above or permission of the instructor

Smith School of Business

Commerce Office Goodes Hall, Room 130

Commerce Telephone 613-533-2301

Website: <https://smith.queenu.ca/bcom>

Students may take any COMM course numbered below 600, subject to the limit stated above and in Academic Programs section **6.D**. First-year Arts and Science students are not permitted to enrol in commerce courses for the Fall or Winter Terms during the summer class selection period. While no first-year student will be permitted to add a Fall Term Commerce course, adding a Winter Term course will be permitted on an individual basis during the open enrolment period.

While any COMM course may be counted as part of the 6.0 units allowed, the following Commerce courses are typically open to Arts and Science students. Note that this is not an exhaustive list, as many 300- and 400-level COMM courses may also be taken. Students must meet the prerequisites (or their equivalents) in order to enrol in

all commerce courses. For a complete description, see the Commerce Program *Web Calendar* at https://smith.queensu.ca/bcom/academic_calendar/browse_calendar/2015_16_started/curriculum/courses_instruction.php.

COMM 200/3.0 Business Fundamentals

PREREQUISITE Level 2 or above

EXCLUSION No more than 3.0 units from COMM 600/3.0 and COMM 200/3.0

COMM 201/3.0 Introduction to Business for Entrepreneurs

EXCLUSION No more than 3.0 units from COMM 103/3.0; COMM 200/3.0; COMM 600/3.0; COMM 201/3.0

COMM 211/3.0 Financial Accounting

PREREQUISITE Level 2 or above

EXCLUSION No more than 3.0 units from COMM 621/3.0; COMM 211/3.0

COMM 212/3.0 Management Accounting

PREREQUISITE Level 2 or above and COMM 111/3.0 or COMM 211/3.0

EXCLUSION No more than 3.0 units from COMM 212/3.0; COMM 612/3.0

COMM 221/3.0 Introduction to Finance

PREREQUISITE Level 2 or above

EXCLUSION No more than 3.0 units from COMM 621/3.0; COMM 221/3.0

COMM 231/3.0 Fundamentals of Marketing

RECOMMENDATION ECON 110/6.0

PREREQUISITE Level 2 or above

EXCLUSION No more than 3.0 units from COMM 631/3.0; COMM 231/3.0

COMM 244/3.0 Project Management: An Engineering Economics Perspective

PREREQUISITE Level 2 or above

COMM 251/3.0 Organizational Behaviour

PREREQUISITE Level 2 or above

EXCLUSION No more than 3.0 units from COMM 251/3.0; COMM 651/3.0

COMM 290/3.0 Empowering Business with Information Technology

EXCLUSION No more than 3.0 units from COMM 190/3.0; COMM 290/3.0

Notes

Subject Code INTN

Office Faculty of Arts and Science

ASC Internship Coordinator Interim, Assoc. Dean J. Atkinson

Telephone 613-533-2470

Office Career Services

QUIP ASC Internship Coordinator K. Eppel

Telephone 613-533-2992

Overview

The *Arts and Science Professional Internship Program* leverages the excellent academic foundation provided by the Queen's curriculum into career opportunities by helping to bridge university life and the working world for students. Through this program, students will have the opportunity to develop their job-search skills through a structured career development program and get hands-on professional experience in their field of study while building professional networks with employers and improving their communication, teamwork and time management skills in a professional environment.

Program

The Professional Internship Program is a combination of career-related workshops and career coaching sessions followed by a 12- to 16-month paid internship opportunity for which academic credit will be given, available to qualified students registered in any Plan in a Bachelor of Arts (Honours) or Bachelor of Science (Honours) program. The internship normally occurs following the student's third year of study, after which the student completes the final year of the honours degree.

The program consists of the current B.A.(Hons.) or B.Sc.(Hons.) program requirements plus additional courses totaling 6.0 units: INTN 301/1.5, INTN 302/1.5 and INTN 303/3.0 for 12 month internships, and INTN 301/1.5, INTN 302/1.5, INTN 304/1.5 and INTN 305/1.5 for 16 month internships. The INTN courses do not count toward the 120.0 total units required for the B.A.(Hons.) or B.Sc.(Hons.) degree requirements.

During the internship, students may optionally pursue a further 3.0 to 9.0 units of independent study that may be used as academic credit towards their Major or Specialization Plan requirements, or towards the elective requirements of the degree program, at the discretion of the student's home Department. Upon successful completion of the 6.0 units of INTN courses, students will be eligible for a Bachelor of Arts (or Science) (Honours) degree with a professional internship designation.

Advice to Students

Students should enroll in the internship program during the Fall Term of Year 3 by contacting Career Services.

Students participating in the Arts and Science Internship Program must 1) normally be enrolled in their third year of study, 2) be in good academic standing as defined by the Faculty's academic regulations, and 3) have a minimum cumulative GPA of 1.90.

Enrolment Limitations

In addition to the INTN course, students may also enrol in one course only during each internship term, including but not limited to an independent study course, to a maximum of 6.0 units per term.

Art History: G.A.Bailey, P.du Prey (Emeritus), U.D'Elia, S.Dickey, J.Helland (Emerita), C.Hoeniger, L.Jessup, J.Kennedy, A.Morehead, M.Reeve, K.Romba, J.Russell-Corbett, J.M.Schwartz, R.Spronk, N.Vorano

Art Conservation: R.Hill, A.Murray, P.Smithen

The **Art History** program offers degrees at the undergraduate and graduate level. Art History courses offer students a unique opportunity to develop the essential skill of visual literacy -- learning to look carefully and think critically about the visual images and material objects that surround us. Encompassing global art traditions from prehistory to the present, courses introduce students to a range of interdisciplinary methods, topics, and media. We explore how visual and material culture shapes human society across time and around the world. Queen's Art History students can take advantage of experiential learning opportunities in Venice (Venice Summer School / Venice and Its Biennale) and at the Bader International Study Centre at our 15th-century castle in England, in addition to internships for course credit at the Agnes Etherington Art Centre on campus and in other museums across Canada. Research opportunities abound at Queen's which is home to the magnificent Bader Collection of European art as well as collections of contemporary, Indigenous, African, and Canadian art. Through field trips, internships, and other activities in and out of the classroom, students gain first-hand experience in analyzing and interpreting works of art and architecture in preparation for careers in museums and archives, academic institutions, heritage preservation and tourism, journalism, art business, art law, and cultural policy. For more information, visit the Art History website: www.queensu.ca/art/art-history

The **Art Conservation** program is offered at the graduate level only. It is the only Master of Art Conservation program in Canada. Art conservation is an exciting and challenging multidisciplinary field that involves the examination, interpretation, analysis and treatment of cultural, historical and artistic objects. Professional conservators rely on their knowledge of both the humanities and the sciences in order to understand the creation and production of material culture in the past and present and to ensure its preservation for future generations. For more information, visit the Art Conservation website: <http://www.queensu.ca/art/art-conservation>

Departmental Notes

Subject Code for Art History ARTH

Head of Department J.M.Schwartz

Departmental Office Ontario Hall, Room 316

Departmental Telephone, Art History 613-533-2517

Departmental Fax, Art History 613-533-6891

E-Mail Address art.history@queensu.ca

Chair of Undergraduate Studies K. Romba

Chair of Graduate Studies (Art History) A.Morehead

Chair of Graduate Studies (Art Conservation) P.Smithen

Popular courses include the introductory "Art in the West from Antiquity to Modernity" and courses in Gothic, Renaissance, Baroque, Latin American, modern, and contemporary art; the Indigenous Arts of the Americas; Culture and Conflict; Technical Art History; Feminism; and Art and Popular Culture. These explore diverse aspects of visual and material culture, situating art with the contexts of museums, collecting, and cultural policy and in relation to key concerns such as gender, class, and race. Cross-cultural interactions are investigated in post-colonial perspective.

Advice to Students

Languages

Students who plan to proceed to graduate work in Art History are advised to acquire reading skills in languages appropriate to the area of specialization.

Special Study Opportunities

Fourth-year Honours students can apply for a practicum course at the Agnes Etherington Art Centre to work directly with curators on exhibitions and other projects. Given the importance of studying works of art first hand, students in Art History are also encouraged to take courses at the Bader International Study Centre (BISC) at Herstmonceux Castle in their second or third year. Summer, fall, and winter 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. The Department also offers month-long programs in Venice and internships in cultural institutions across Canada. For more information, visit the website: www.queensu.ca/art.

Biochemistry

S. Abraham, J.Allingham, R.L.Campbell, G.P.Côté, A.Craig, P.L.Davies, C.D.Funk, Z.Jia, G.Jones, M.Ormiston, C.R.Mueller, M.P.Petkovitch, S.P.Smith

Program Notes

Subject Code for Biochemistry BCHM

Associate Dean, Life Sciences and Biochemistry L.Winn

Program Chairs J. Allingham

Office Botterell Hall, Room 650

Telephone 613-533-2900

World Wide Web Address <http://healthsci.queensu.ca/liscbchm/biochemistry>

E-mail Address biochem@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), Molecular Biology, general Physics and Mathematics, Statistical Analysis. In the upper years of the program students receive in-depth exposure to all areas of Biochemistry and Molecular Biology, Cell 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.

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 Sciences Programs, please consult the Biochemistry Program and Life Sciences Program entries in the *Calendar*.

Program Policies

Students pursuing entry into the fourth-year of the *Biochemistry* Major Plan require a minimum GPA of 2.5 in the core BCHM courses (BCHM 218/3.0, BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, and BCHM 317/6.0) to access those fourth-year courses required to complete the Plan. See Academic Regulations **2.4** and **2.6**.

Students wishing to continue in *Biochemistry* Specialization Plan (BCHM-P-BSH) in their fourth-year must 1) achieve a minimum GPA in the core BCHM courses (see above) of 2.9 and 2) acceptance into the Plan. Students who secure a research project but do not attain the minimum GPA of 2.9 will not be allowed to enroll in BCHM 421/6.0 and BCHM 422/6.0 but will be allowed to complete the *Biochemistry* Major Plan.

Laboratory Safety

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.

Advice to Students

Students should seek **academic counseling** from the staff in the Associate Dean's office or from the counselor listed below.

COURSE PREFIX	COUNSELLOR	CONTACT INFORMATION
BCHM	J. Allingham	allinghj@queensu.ca
BCHM and LISC	L. Winn	lifesci@queensu.ca
BCHM and LISC	D. Cameron	biochem@queensu.ca
BCHM and LISC	K. Rudder	lifesci@queensu.ca

Biochemistry Plans

The flagship program is the Biochemistry Specialization Plan (BSCH-P-BSH), which is recommended for students who wish to gain in-depth training in modern experimental Biochemistry and Biochemical processes involved in human health and disease. 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. Students may access this Plan at the start of their fourth year, on securing a research project.

A Cooperative program in Biochemistry is available that is integrated into the 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 interests outside of experimental Biochemistry. This option provides flexibility for 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.

L.W.Aarssen, S.E.Arnott, F.Bonier, W.Bendena, M.G.Blennerhassett, P.T.Boag, I.D.Chin-Sang, A.K.Chippindale, R.Colautti, B.F.Cumming, A.J.Daugulis, P.L.Davies, T.Day, E.Dumont, C.G.Eckert, V.L.Friesen, P.Grogan, , P.V.Hodson, K.Ko, , D.D.Lefebvre, W.C.Leggett, S.C.Lougheed, P.R.Martin, J.Monaghan, R.D.Montgomerie, C.D.Moyes, W.A.Nelson, D.Orihel, W.Paterson, W.C.Plaxton, L.M.Ratcliffe, S.M.Regan, R.M.Robertson, L.Seroude, J.P.Smol, W.A.Snedden, P.D.Taylor, N.Troje, B.L.Tufts, S.Vanner, V.K.Walker, Y.S.Wang, P.G.Young

Departmental Notes

Subject Code BIOL

Head of Department B.F.Cumming

Associate Head of Department P.G.Young

World Wide Web Address <https://biology.queensu.ca/>

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 K.Ko

Associate Chair of Undergraduate Studies V.Friesen

Chair of Graduate Studies D.Lefebvre

Associate Chair of Graduate Studies L.Aarssen

Director of Biological Station S.C.Lougheed

Overview

Queen's Biology students have the opportunity to explore the full breadth of biology: the inner workings of cells; the integrative biology of organisms; the interactions between organisms in ecological communities; and the central roles of genetics and evolution in shaping the diversity of life. Hands-on laboratory exercises, field courses offered locally at our renowned Queen's University Biological Station and around the world, and independent research opportunities in professors' laboratories on selected topics are hallmarks of a Degree Plan in Biology. The mission of Queen's Biology is to prepare graduating students to be engaged, independent, and critically thinking citizens, well-prepared for further study and with a variety of career options.

Departmental Policies

Academic policies of the Department of Biology are outlined on the Department's website and course syllabi. Some Biology courses may require students to cover costs such as laboratory manuals and field trips. Laboratory manuals may contain important information on issues specific to the course of study such as laboratory safety, the ethical use of animals, and academic integrity. All students are expected to read and follow these departmental policies, which complement the Code of Conduct and Academic Regulations described elsewhere in this *Calendar* and on the Biology website.

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. degree plans but is recommended in specific areas of biology. To avoid course conflicts in upper years, students are advised to plan their course of study 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 a Biology degree Plan, planners for four different course streams are described on the departmental website. These streams are (i) Genetics and Molecular Biology, (ii) Plant Biology, (iii) Integrative Animal Biology, and (iv) Ecology and Evolutionary Biology, each representing a sub-discipline within biology corresponding to teaching and research specializations of faculty within the Department of Biology. Students who wish to cater their degree Plan and specialize in one of these areas are encouraged to use the appropriate planner to help in mapping out course selections. Suggestions are given for courses to select from Biology as well

as supporting courses that are offered by other departments. Course streams are not formal degree Plan options in Biology, and some students may prefer to sample broadly from across all four areas.

Students wishing to take a single elective course in Biology are advised to take BIOL 110/3.0, BIOL 111/3.0, or BIOL 350/3.0. Those wishing to take more elective courses in Biology are advised to consider that most courses have prerequisites, which include the core courses described in the following Plans.

Special Study Opportunities

Advanced Honours Seminars (BIOL 501 – 536)

Biology offers a series of advanced 3.0 unit seminars with emphases on reading primary literature, writing, presentation skills and experimental enquiry. Small class sizes and extensive interaction with faculty help promote an independent, discovery-based learning experience. Topics and course numberings for seminar offerings vary from year to year and are listed each spring for third-year students to consider. 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 B.Sc.(Hons.) program with a BIOL Plan.

Honours Thesis (BIOL 537)

The thesis course in Biology is a 12.0-unit, two-semester immersion in research that provides ideal preparation for graduate studies and research. Students follow the main steps of a graduate degree on a compressed schedule, from conception and proposal of a project to its execution, presentation in the form of a poster and public talk, a written thesis and a formal defense. Third-year students should consult the Biology website for further information on the faculty members offering BIOL 537 placements, the specific projects available, and details on the application process.

Research Mentorship (BIOL 538, 539, 540)

This family of courses offers students the opportunity to arrange, with a Biology faculty member and permission of the Department, a placement in a laboratory and literature-based research project of either 3.0 or 6.0 units. Students undertaking a Research Mentorship gain the hands-on experience of contributing to an active research laboratory and interacting with the researchers, as well as undertaking a customized independent study that compliments the laboratory's research program.

Field Studies in Biology (BIOL 307, 317, 327)

The Department of Biology is an active participant in the Ontario Universities' Programme in Field Biology (OUPFB) and a leader among Canadian universities in providing unique learning experiences via one- and two-week modules locally and around the globe. Superb resources are available close to Kingston at our Queen's University Biological Station and the Elbow Lake Environmental Education Centre, and recent courses have touched every continent except for Antarctica.

Joint Program with St. Lawrence College - Bachelor of Science (Honours) Degree/Advanced Diploma in Biotechnology

The Department of Biology and the Biotechnology unit at St. Lawrence College are offering a joint program in Biotechnology available to both Queen's and St. Lawrence College students. Students may begin the program at either institution, and then transfer to the partner institution after 2.5 or 3 years to finish the program. Such joint program students will be eligible for both the Queen's B.Sc.(Honours) degree and the St. Lawrence College Advanced Diploma after a total of 5 years of full-time study. The program focuses on a laboratory-based curriculum with both a work placement part-way through the program and a final independent research project. Interested students should contact the Program Assistants in either Department for further information and admission requirements.

D.Beauchemin, R.S.Brown, N.M.Cann, C.Capicciotti, J.Carran, T.Carrington, C.Crudden, P.A.Evans, S.A.M.Hesp, J.H.Horton, G.Jerkiewicz, P.G.Jessop, I.Kozin, G.Liu, H.-P.Loock, D.H.Macartney, M.Mombourquette, N.J.Mosey, J.M.Nunzi, R.D.Oleschuk, A.Petitjean, A.Ross, K.Stamplecoskie, P.Wang, S.Wang, G.Wu, D.Zechel

Departmental Notes

Subject Code CHEM

World Wide Web Address <http://www.chem.queensu.ca/>

Acting Head of Department H.-P.Loock

Departmental Office Chernoff Hall, Room 200

Departmental Telephone 613-533-2616

E-Mail Address ugadm@chem.queensu.ca

Chair of Undergraduate Studies A.Petitjean

Coordinator of Graduate Studies N. Mosey

Department Manager H.Drouillard

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 laboratories. 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 required. Protective gloves may be required.

Students must complete Queen's WHMIS and Safety Awareness training in order to take a laboratory course in Chemistry. WHMIS and Safety Awareness training will normally be offered during the first two weeks of the Fall Term by the Department of Environmental Health and Safety.

Laboratory Costs

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.

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 (30.0 units plus 6.0 supporting units) to the Specialization (90.0 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.

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.

Special Study Opportunities

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.

ARCHAEOLOGY, GREEK AND ROMAN STUDIES

F.Colivicchi, M.S.Cummings, A.D'Elia, 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 Classics CLAS

Subject Code for Greek GREK

Subject Code for Hebrew HEBR

Subject Code for Latin LATN

Head of Department R.Griffith

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 B.J.Kavanagh

Overview

Classics refers to the study of the Greek and Roman worlds. Multi-disciplinary in approach, it involves the studies of history, literature, archaeology, religion, mythology, drama and philosophy, in addition to the ancient languages of Greek and Latin. Today our understanding of Greek and Roman culture is further enhanced by the latest digital techniques that increasingly pervade studies in archaeology, epigraphy, papyrology, and ancient science and medicine. At Queen's, students have the opportunity to get hands-on experience in the latest techniques by participating in one of two archaeological excavations supervised by our own faculty, or through a variety of projects and assignments.

Advice to Students

A good place to begin is the Undergraduate Degree Programs and Plans section of the Classics website, which outlines the requirements for various Classics Degree Plans.

The movement through, and selection of, courses for your Classics degree are dependent on a prerequisite system. You can enrol in a course if the course is not full and if you have the correct prerequisite(s), which may include specific courses taken, a specific grade in previous courses, and a required Arts and Science year level. Prerequisites for a course cannot be taken concurrently with that course.

Other planning considerations:

Not all Classics courses are offered every year, so it is important to check the Course Offerings for the upcoming academic year.

It is best to take first-year courses early in your program. As long as you meet the prerequisites, it is possible to take upper-year courses in your second year.

Special Study Opportunities

International opportunities (**excavations, language schools, and Classics-related studies**) are available, some of which can be found posted on our Classics Department bulletin boards on the 5th floor of Watson Hall.

The Department currently offers two archaeological excavations, one in Italy (CLST 409 – Archaeological Fieldwork Practicum II) and two in the Balkans (CLST 412 Archaeological Fieldwork Practicum IIIa and CLST 413 Archaeological Fieldwork Practicum IIIb). During the summer, the Bader International Study Centre offers a Field School in British Archaeology. This intensive five-week program incorporates two for-credit courses on Roman Britain and Medieval Britain with the practical learning experience of excavation.

For other dig and study opportunities, check out the Archaeological Fieldwork Opportunities Bulletin (AFOB) and [Archaeological Projects in the Near East and Egypt](#). You should also check out information at the International Programs Office (IPO) located in Mackintosh-Corry Hall, or by dropping by the Department and speaking with our Undergraduate Chair.

Students wishing to enrol in an approved course offered by another university related to Classical Studies or Archaeology for credit towards their Plan should consult the Faculty of Arts and Science office for information.

International Studies Certificate

For students wishing to enhance their degree program with an international perspective, the Faculty of Arts and Science offers a Senate-approved Certificate in International Studies, the requirements for which could be met by your Classics degree in combination with a study-abroad experience.

Computing

S.G.Akl, D.Blostein, J.R.Cordy, R.W.Dawes, J.Dingel, D.Dove, Q.Duan, J.Dunfield, R.E.Ellis, G.Fichtinger, T.C.N.Graham, A.E.Hassan, H.S.Hassanein, D.A.Lamb, M.Lamb, R.Linley, A.McLeod, P.Mousavi, D.Rappaport, K.T.Salomaa, D.B.Skillicorn, J.Stewart, R.P.H.Vertegaal, F.Zulkernine, M.Zulkernine,

Departmental Notes

Subject Code for Biomedical Computing BMCO

Subject Code for Cognitive Science COGS

Subject Code for Computer Science CSCI

Subject Code for Computing COMP

Subject Code for Computing and Information Science CISC

Subject Code for Computing and Mathematics COMA

Subject Code for Computing and the Creative Arts COCA

Subject Code for Software Design SODE

World Wide Web Address www.cs.queensu.ca

Director of the School H.Hassanein

School Office Goodwin Hall, Room 557

School Telephone 613-533-6050

School E-Mail Address inquiries@cs.queensu.ca

Chair of Undergraduate Studies D.A.Lamb

Coordinator of Graduate Studies J.Stewart

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, Computing and Mathematics), or design your own program by incorporating a Major or Minor Plan in Computing with another Plan in the Creative Arts, Humanities, Languages, Social Sciences, or Natural and Physical Sciences.

Advice to Students

Students should seek academic counseling from one of the counselors listed below

SUBJECT CODE	COUNSELOR	CONTACT INFORMATION
BMCO	<u>Department of Biomedical and Molecular Sciences</u>	
	G. Blohm	Gunnar.Blohm@queensu.ca
	Q. Duan	Quinling.duan@queensu.ca
	<u>School of Computing</u>	
COGS	R. Ellis (Goodwin Hall 737)	ellis@cs.queensu.ca
	<u>Life Sciences</u>	
	G. Blohm	Gunnar.Blohm@queensu.ca
	<u>School of Computing</u>	
	F. Zulkernine (Goodwin Hall 754)	farhana@cs.queensu.ca
	<u>Linguistics Program</u>	
COCA	C. Reinholtz	cr19@queensu.ca
	B. Bjorkman	bronwyn.bjorkman@queensu.ca
	<u>Department of Philosophy</u>	
	Paul Fairfield	
	Watson 312	philug@queensu.ca
COCA	<u>Department of Art History and Art Conservation</u>	
	Katherine Rombac	rombak@queensu.ca
	<u>School of Computing</u>	
	R. Vertegaal (Jackson Hall, 3 rd Floor HML Lab)	roel@cs.queensu.ca
	<u>Dan School of Drama and Music</u>	
J. Stephenson (Harrison-Caine Hall)	Jenn.Stephenson@queensu.ca	
<u>Department of Film and Media</u>		
Scott MacKenzie (Rm 316 Isabel Bader Centre)	undergraduatefilm@queensu.ca	

COMA	<u>Department of Mathematics and Statistics</u> Devon Lin <u>School of Computing</u> D. Rappaport (Goodwin Hall 532)	mastugch@queensu.ca daver@cs.queensu.ca
COMP	<u>School of Computing</u> J. Dingel	dingel@cs.queensu.ca
CSCI	<u>School of Computing</u> J. Dingel	dingel@cs.queensu.ca
SODE	<u>School of Computing</u> M. Zulkerine (Goodwin Hall 535)	mzulker@cs.queensu.ca

Introductory Courses

Students considering pursuing any Plan offered through the School of Computing must take CISC 102/3.0 or MATH 110/3.0. 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 be able to express a procedural solution to a natural-language problem, properly using modularity, repetition, conditionals, and simple (rectangular) data structures. 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 Undergraduate Chair.

Special Study Opportunities

Computing Facilities

Undergraduates in the School of Computing can take advantage of our 22 research labs such as the Human Media Lab, which, as one of Canada's premier media laboratories, has a mandate to develop disruptive technologies and new ways of working with computers. Through the School's network of labs, students access leading software such as Unity and Matlab. Our hosted cloud services give students a platform to learn industry-leading technologies like managing virtual hosts and collaborative development using Gitlab.

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 and no more than 90 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 internship 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 496/3.0 or 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 496/3.0 or CISC 498/6.0 or CISC 499/3.0 or COGS 499/3.0 project.

D.Baird, C.Brunette, J.Brook, J.Burge, G.Dalbec-Szczesniak, T.Davidson, T.Fort, P.Freeman, J.Hanlon, B.Kelly, E.Kwasniewska, J.Lazarus, S.Lind, R.MacKay, S.Matrix, D.Moses, D.Namer, K.Pegley, A.Redish, C.Reid, C.Renihan, K.Renders, G.Renyk, N.Rewa, M.Rogalsky, G.Runions, J.Salverson, A.Shannon, G.E.Smith, J.Stephenson, M.Szczesniak, C.Tormann, W.Tormann, D.Tremblay, C.Walker, M.Walker, G.Wanless, I.Zuk

The Dan School of Drama and Music was created through a merger of two formerly independent units that were respectively devoted to music and drama. Those disciplines continue to have comprehensive representation within the Dan School, but in addition we offer a rich opportunity to study music theatre. In the Dan School, we offer a welcoming environment in which the pursuit of excellence in artistic practice is accompanied by an education in the theory and history of the disciplines. Our students become excellent communicators, imaginative collaborators and disciplined critical thinkers as well as developing extensive experience as creators, performers and broadly skilled technicians in the theatre and the concert hall. Our shared facilities in the beautiful Isabel Bader Centre for the Performing Arts, on the shore of Lake Ontario, offer state-of-the art equipment and superb spaces such as a world-renowned Performance Hall, a Studio Theatre, a lake view Rehearsal Hall/Recording Studio and a suite of smart classrooms and soundproof studio spaces.

Some of our popular offerings include Music Theatre, Music Education, Composition, Acting, Vocal Music, Playwriting, Technical Production, online courses in Entrepreneurship and Innovation, our summer courses in residence at the Shaw Festival, and our courses in Medieval performance taught at Herstmonceux Castle in England. We also offer an internship course in which students work with a professional arts organization. Our graduates are broadly resourceful thinkers and practitioners able to work comfortably and confidently in a wide range of professions. Studying Drama and Music at Queen's can take place in three main locations – Theological Hall, one of Queen's oldest buildings and often referred to as the most dramatic building on campus; Harrison-LeCaine Hall; or at the new, world-class Isabel Bader Centre for the Performing Arts.

Unit Notes

Subject Codes DRAM / ENIN / MUSC / MUTH / STSC

World Wide Web Address <http://sdm.queensu.ca/>

Director of School C.Walker

Office Harrison-LeCaine Hall, Room 204

Telephone 613-533-2066

E-Mail Address info.danschool@queensu.ca

Chair of Undergraduate Studies J.Stephenson

Academic Advisers L. Atkinson, K. Gudlauskis

Overview

At Queen's, you can balance the study of drama and music from theoretical and practical perspectives. Presentations and workshops by guest artists and scholars as well as student participation in mainstage and studio theatre productions and ensemble concerts for the public bring breadth and depth to our programs. For students interested in collaboration between the fields of Drama/Music and Film/Media, there is a Specialization Plan in Stage and Screen Studies. Queen's Music studies include courses in applied study (performance), musicology/ethnomusicology, music education, and theory and composition with a strong focus on the Western classical tradition. Drama at Queen's offers a range of focus areas including performance, production, theatre history, dramaturgy and design.

The School offers Major, Medial and Minor/General Plans as part of the regular Bachelor of Arts and Bachelor of Arts (Honours) degree Programs, and also specialization degrees: the Bachelor of Music and the Bachelor of Music Theatre. Students who apply to B.A.Honours and B.Mus. programs can also pursue a concurrent Bachelor of Education degree program with Queen's Faculty of Education.

The Bachelor of Music degree program is a four-year direct-entry degree program and is subject to special admission conditions including an audition, music theory and aural skills tests, and an interview. Students must also meet the minimum academic requirements for admission to the University. (See below and Admission

Regulation 12 for details). B.Mus. students achieving a grade of B+ or lower on the music theory test will be expected to do remedial work to strengthen their skills before commencing the program.

Students entering the Bachelor of Music degree program may also apply for the concurrent B.Mus./Music and Digital Media (MDM) Program with St. Lawrence College. Students in this program combine up-to-date skills in sound and digital technology with a high-standard education in music performance and academics, receiving both a Queen's degree and a St. Lawrence diploma.

The Bachelor of Music Theatre degree program is a joint program with St. Lawrence College (Brockville). Students acquire practical skills in singing, dancing, and acting in the first two years of the program hosted by St. Lawrence College. This practical training is then augmented with two years academic study at Queen's to attain the B.M.T. degree.

Departmental Policies

1. Students enrolled in DRAM courses will be expected to attend theatre shows. Cost will vary depending on the venue of each show. Further details can be found in each course syllabus.
2. Students enrolled in MUSC courses will be expected to attend musical performances. Cost will vary depending on the venue of each show. Further details can be found in each course syllabus.
3. Procurement and costs of musical accompaniment are the students' responsibility.
4. Students in the following categories will be able to rent instruments from the School (for \$75 for four months in 2017-18, but subject to change): i) who are enrolled in the secondary instrument courses MUSC 181-187/3.0 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, MUSC 120/6.0, 220/6.0, 320/6.0, 420/6.0, or MUSC 124/6.0, 224/6.0, 324/6.0, 424/6.0); or iii) who require an instrument for participation in a Music program ensemble.

Advice to Students

First Year Courses and Electives

Students who wish to pursue a BAH Drama Plan are advised to take either DRAM 100/6.0 or (if studying at the Bader International Study Centre) BISC 100/3.0 and BISC 101/3.0.

Students who wish to pursue a BAH Music Plan are advised to take MUTH 110/3.0 or MUTH 111/3.0 (Minor/General) and also MUSC191/3.0 (Major/Medial); and MUSC104/3.0 if no previous experience with music rudiments.

Course Load

B.Mus. students may register for a maximum of 37.5 units over the Fall and Winter Terms. All other students must follow the normal course load restrictions as detailed in Academic Regulation 3.

Ensembles

Ensemble courses are open to all students in Arts and Science for credit, upon successful audition. All students wishing to participate in large and medium ensembles must audition in early September. Contact Music (music@queensu.ca) regarding admission procedures for small ensembles.

Access to and Credit for DRAM, MUSC, MUTH courses in other Arts and Science Programs

Most DRAM, MUSC, and MUTH courses may be used to fulfill the elective or Plan requirements of Arts and Science degree Programs. Students interested in Music courses who cannot read music notation may take MUTH 110/3.0, MUTH 111/3.0, MUSC 102/3.0, MUSC 104/3.0, MUSC 114/3.0, MUSC 156/3.0, MUSC 171/3.0, MUSC 289/3.0, or MUSC 255/6.0 without conditions; such students interested in enrolling courses beyond this list should consult with the Dan School regarding music notation requirements.

Admission

Students in Major, Medial or Minor/General Plans follow the standard Arts and Science admission regulations. Admission to the Bachelor of Music and Bachelor of Music Theatre Programs is by direct-entry. Once admitted to these Programs, students will be automatically enrolled in the appropriate Specialization Plan. Admission will generally require an audition. Students seeking admission to the concurrent B.Mus./Music and Digital Media Diploma Program should follow the same admission procedures for the direct-entry B.Mus. Upon receiving an offer of admission from Queen's for the B.Mus., students complete a Program Application Form to St. Lawrence College for part-time study through the concurrent MDM Program. Forms are available through the Dan School Office.

Transfer students from other universities or from any other Faculty at Queen's must also apply through Undergraduate Admission 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. See Admissions Regulation **12** for complete details.

Economics

B.Abbott, R.Clark, C.Cotton, I.Cromb, C.Ferrall, D.Garvie, A.W.Gregory, J.M.Hartwick, A.C.Head, B.Hickman, G.Jenkins, I.Keay, M.Kennedy, T.Koepl, B.Lapham, H.Lloyd-Ellis, J.G.MacKinnon, S.Majumdar, F.Milne, M.Nielsen, G.W.Smith, A.Stewart, H.Sun, M.L.Viero, R.Wang, R.Ware, J.Zabojnik

Departmental Notes

Subject Code for Applied Economics APEC

Subject Code for Economics ECON

Subject Code for Politics-Philosophy-Economics PPEC

World Wide Web Address www.econ.queensu.ca/

Head of Department H. Lloyd-Ellis

Chair of Undergraduate Studies I.Cromb

Undergraduate Office Dunning Hall, Room 221

Undergraduate Telephone 613-533-2296

E-Mail Address ballj@econ.queensu.ca

Academic Advisers www.econ.queensu.ca/academics/undergraduate

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 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.

M.Berg, C.Bongie, S.B.Cameron, G.Dujardin, H.Evans, P.Fachinger, C.Fanning, E.Hanson, M.C.Jones, S.King, R.May, G.McIntire, S.W.McKegney, K.Moriah, R.Morrison, L.Murray, M.Pappano, J.Pierce, P.M.Rae, L.Ritchie, A.G.Ruffo, Y.Schlick, C.Smart, S.Straker, M.Straznicky, A.Varadharajan, M.Wallace, T.Ware, R.C.Wehlau, G.Willmott

Departmental Notes

Subject Code for Language and Literature ENGL

Subject Code for Creative Writing CWRI

World Wide Web Address <http://www.queensu.ca/english/>

Head of Department S. King

Departmental Office Watson Hall, Room 411

Departmental Telephone 613-533-2153

E-Mail Address donnelly@queensu.ca

Chair of Undergraduate Studies R.May

Chair of Graduate Studies M. Wallace

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

Academic Integrity

The Department of English promotes an ethos of academic integrity, based on the values of honesty, trust, fairness, respect, responsibility and courage. 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 <http://www.queensu.ca/english/integrity>. 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. 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. (See the section 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 enroll in ENGL 100/6.0 in their first year. Upper-level students without this prerequisite, but who require an Elective course in English (e.g., for Medical School), may enroll 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 must, in their first year of study, take “Introduction to the Study of Literature” (ENGL 100/6.0, Core course 1.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 1.B.); students in a Major or Medial Plan also take a required seminar (ENGL 290/3.0, Core course 1.C.), which develops students’ writing abilities and introduces them

to the basic research tools of literary studies. ENGL 200/6.0 and ENGL 290/3.0 are prerequisites for coursework at the 300 level and above, so Majors and Medials should be sure to complete them in second year.

In their second year, in addition to ENGL 200/6.0 and 290/3.0, Majors normally take between 9.0 and 12.0 additional units at the 200 level that will count toward their Plan, and Medials normally take between 3.0 and 6.0 additional units at the 200 level. A select number of courses from other departments and programs, including Creative Writing, can also be counted toward an English Plan.

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; students are encouraged to seek advice from the Undergraduate Chair or from their instructors.

Having gained the historical and critical foundations provided, respectively, by ENGL 200/6.0 and 290/3.0, Majors and Medials proceed in third year to 300-level small lecture courses. These in-depth, full-year historical 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 1.D., 1.E., 1.F.), while Medials must take 6.0 units in Group I and 6.0 units in Group II or III (Core courses 1.D., 1.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 1.G.); 3.0 units must be in Groups III or IV (ENGL 460-499; Core course 1.H.); while the remaining 9.0 units are Option courses. Medials take 6.0 units at the 400 level. 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 an array of Queen's English Department courses are offered, including ENGL 100/6.0. (For more on these study abroad opportunities, see the section on International Programs and Study Abroad Options in this *Calendar*, as well as the website for Herstmonceux <http://www.queensu.ca/bisc>).

Queen's students who study abroad frequently do so in their third year. English Majors and Medials normally take a set of core courses in their third year (Core courses 1.D., 1.E., and 1.F. for Majors; 1.D. and 1.E. for Medials), but there is no reason why going on exchange in third year should prevent English Majors and Medials from completing their Plans on time; it merely requires careful planning and consultation. Students who will be away from Queen's for the entire third year should enroll in at least 12.0 units of courses at their exchange institution that can be counted toward the 300-level Core course requirements. Half-year courses in similar chronological periods can be combined to satisfy a year-long 300-level requirement; this option is frequently used by students who are away only for one term during their third year. All students intending to study abroad in their third or fourth year are strongly advised to consult with 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 200/6.0 and ENGL 290/3.0 (Core courses 1.B. and 1.C.), which are prerequisites for doing upper-level work in the Queen's English Department.

Environmental Studies

K.J.Aronson, R.S.Brown, H.Castleden, D.Chen, B.F.Cumming, R.Danby, V.Friesen, A.Goebel, M.Hird, P.V.Hodson, A.Hovorka, H.E.Jamieson, S.C.Lougheed, W.Mabee, T.E.Massey, D.McDonald, D.Orihel, M.F.Smith, J.P.Smol, M.Taylor, R. Upititis, L.Viswanathan, N.Vlachopoulos, V.Walker, M.Wallace, Y.S.Wang, J.Webster, G.Whitelaw, L.M.Winn, B.Zeeb, F.Zeman

Departmental Notes

Subject Code ENSC

World Wide Web Address <http://www.queensu.ca/ensc/>

E-Mail Address envst@queensu.ca

Director A.Hovorka

Office Biosciences Complex, Room 3134

Telephone 613-533-6602

Chair of Undergraduate Studies A.Goebel

Biosciences Complex, Room 3125, 613-533-6000 ext 77660

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

Counsellors

Environmental Studies

A.Goebel, Biosciences Complex, Room 3125, 613-533-6000 ext 77660

Department of Biology

, R.S. Brown, Biosciences Complex, Room 3130, 613-533-2655

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

Department of Geological Sciences and Geological Engineering

H.Jamieson, Biosciences Complex, Room 3131, 613-533-6181

Life Sciences

L.M.Winn, Biosciences Complex, Room 3127, 613-533-6465

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 with an emphasis on sustainability, and ecosystem and human health. The Plan includes core courses in science, integrative courses in science and social science, and environmental courses in the humanities.

Specialization (Science) Plans

These Plans provides 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.

B.Allan, K.Bertrand, A.Guerrero Cortés, G.Kibbins, F.Leeming, S.Lord, S. MacKenzie, D.Naaman, E.Pelstring, K.Zaiontz,

Departmental Notes

Subject Code FILM

Head of Department G.Kibbins

World Wide Web Address <http://www.queensu.ca/filmandmedia/>

Departmental Office 390 King Street West Room 306

Departmental Telephone 613-533-2178

Departmental Fax 613-533-2063

E-Mail Address filmdesk@queensu.ca

Coordinator of Undergraduate Studies S. MacKenzie

Coordinator for Stage and Screen Studies S. MacKenzie

Department Administrator (Acting) D.Arsenault

Undergraduate Administrative Assistant S. Wilson

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.

Enrolment Limitation

Because of student demand for a limited number of spaces, a grade of 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 **2, Enrolment and Registration Priorities**, in the *Calendar*.

R.Anweiler, A.Arauz, S.Aziz, K.Rodgers, K.Sellars, J.Winton

Program Notes

Subject Code for Fine Art (Visual Art): ARTV

Interim Director, Fine Art (Visual Art): G. Smith

Program Telephone: 613-533-6166

Program Fax: 613-533-2834

Program E-Mail Address: fineart@queensu.ca

Chair of Undergraduate Studies: **K. Rodgers**

Queen's Bachelor of Fine Art (Visual Art) Program is a small visual art program admitting 30 students per year. The intensive studio training, taught by instructors that are active in their field, alongside visiting artists from across the country and internationally, is complemented by lecture and seminar courses in Art History. The small class sizes and high professor-to-student ratios create an interactive learning environment focusing on three main areas of fine art: painting, printmaking and sculpture/new media. The Fine Art (Visual Art) Program is well equipped with studios and workshops that create an atmosphere where learning and research can flourish. Optional field trips are made to exhibitions and workshops, including annual trips to New York.

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 Visual Art. Our program combines the technical, theoretical and critical studies required in the practice of visual art in four interrelated areas: painting, drawing, printmaking, and sculpture/new 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 (Visual 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 Plan. Only the courses ARTF 100/6.0; ARTF 101/3.0; ARTF 102/3.0; ARTF 106/3.0; 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 Visual Art Plan.

Material Costs

All courses require the purchase of materials in the production of art works. Students can expect to pay up to \$1200 per year for materials. An optional trip to New York City is scheduled annually for second-year B.F.A. students. Students who participate in this trip should expect to spend approximately \$800 for the cost of accommodation, transportation, meals and gallery entrance fees. A \$250 deposit for this trip is required to be paid in first year.

J.Bénard, C.Dhavernas, M.Dufresne, S.Inkel, M.Reyes, F.Rouget

Departmental Notes

Subject Code for French FREN

Subject Code for French Studies FRST

Head of Department S.Inkel (Interim Head 2017-2019); M.Dufresne (Acting Head Jan 2018-July2018)

Departmental Office Kingston Hall, Room 300

Departmental Telephone 613-533-2090

Departmental Fax 613-533-6522

Chair of Undergraduate Studies M.Dufresne (F.Rouget, Acting Chair Jan 2018-July 2018)

Coordinator of Graduate Studies TBA

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 opportunities to study or work in a francophone context either in Quebec or Europe, through academic exchanges or 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 100-level French courses should take an online French placement test before registering 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 courses below FREN 150 may not be used towards French Plan requirements, though they may be used as electives or partially towards the requirements of the French Certificate of Competence (see below).

Communication and Culture Courses

The Department of French Studies offers a series of Communication and Culture courses, both online and on campus, for students wishing to develop and perfect their French language skills. These include: practical communication skills to engage in a range of everyday situations; learning about various French cultures; vocabulary, grammar, pronunciation; interactive activities & group work. No auditors.

Special Study Opportunities/Cultural Activities

The Department of French Studies offers a range of cultural programs and educational opportunities for faculty, students and the Kingston community.

Learning Resources

Technological resources are available for students taking courses in the Department. These include language laboratories, Room 121 at Stauffer Library.

Credit for Work Taken at a French-Language University

The third year of a four-year program with a French Major, Media or Minor 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 150/6.0, FREN 230/6.0, FREN 241/6.0 and FREN 250/3.0 with a GPA of 1.90 on these three courses. On returning to Queen's for the fourth year, students will be

allowed to transfer credits 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 300 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 includes courses in oral and written French, French literature, business French or French linguistics.

Requirements: 18.0 units in French. Required courses include FREN 150/6.0 or *FREN 100/6.0* or *FREN 110/6.0* or (*FREN 101/3.0* and *FREN 102/3.0*) and (FREN 250/3.0 or *FREN 344/3.0*) and 3.0 units from the Communication and Culture series of courses. All courses taken for the certificate must be at a level equal to or above FREN 150/6.0 (with the exception of FREN 118/3.0) **AND be in good standing**. No more than 6 transferred units can be counted towards the intermediate level certificate.

INTERMEDIATE-ADVANCED LEVEL includes courses in oral and written French and possibly French literature, business French or French linguistics.

Requirements: 24.0 units in French. Required courses include FREN 150/6.0 or *FREN 100/6.0* or *FREN 110/6.0* or (*FREN 101/3.0* and *FREN 102/3.0*) and (FREN 250/3.0 or *FREN 344/3.0*) and FREN 330/3.0 and 3.0 units from the Communication and Culture series of courses at the level of FREN 219/3.0 or above. All courses taken for the certificate must be at a level equal to or above FREN 150/6.0, **AND** be in good standing. Only 6.0 units from Communication and Culture courses (FREN 219/3.0, FREN 320/3.0) credit can be counted towards the certificate. No more than 9 transferred units can be counted towards the intermediate-advanced level certificate.

Applications for the Certificate should be received by the Department of French Studies before the Departmental deadline.

Gender Studies

S.Aziz, B.Baines, A.Burfoot, J.Davidson, J.Davies, K.Dubinsky, G.A.Dumas, A.Goebel, E.Goldberg, L.Hanson, S.J.King, A.L.Kobayashi, K.A.Lahey, C.Levine-Rasky, M.Little, S.Lord, E.MacDonald, G.McIntire, K.McKittrick, S.Morgensen, B.Mullings, D.Naaman, I.Pande, K.Pegley, E.Power, L.M.Ratcliffe, K.Renders, N.Rewa, M.Rivera, D.Robinson, P.Salah, J.Scott, S.Srivastava, P.Thompson, J.Tolmie, A.Varadharajan, L.Viswanathan, B.Walker, P.Dickey Young

Departmental Notes

Subject Code GNDS

World Wide Web Address <http://www.queensu.ca/gnds/home>

Head of Department S.King

Office Mackintosh-Corry Hall, Room D506

Administrative Assistant T.Easter Sheen

Coordinator of Graduate Studies Fall K. McKittrick/Winter S.Morgensen

Graduate Assistant T.Easter Sheen

Chair of Undergraduate Studies J.Tolmie

Sexual and Gender Diversity Certificate Coordinator J.Tolmie

Undergraduate Assistant K.Baer

Departmental Office Mackintosh-Corry Hall, Room D504

Telephone 613-533-6318

Overview

The Department of Gender Studies at Queen's offers courses in politics; feminist, queer and gender theory; anti-racism; transgender studies; settler-colonial studies; social justice; popular culture and the critical analysis of everyday events. This innovative, interdisciplinary program combines the arts, humanities, and social sciences, offering students a unique opportunity to design a degree suited to their interests and career goals, including law, academia, medicine, public service, media and activism.

We offer a practicum for students invested in community engagement and social justice.

The Department also administers a Certificate Program in Sexual and Gender Diversity (SXGD) that is open to undergraduate students in all degree plans.

A.Agarwal, J.Andrew, G.Bevan, L.Cameron, H.Castleden, D.Chen, P.Collins, R.Danby, J.Davidson, B.Donald, A.Godlewski, D.Gordon, A.Hovorka, A.L.Kobayashi, M.Lafrenière, S.F.Lamoureux, W.G.Lovell, W.Mabee, J.Meligrana, B.A.Mullings, M.W.Rosenberg, N.Scott, L.Thomson, P.M.Treitz, L.Viswanathan, G.Whitelaw

Departmental Notes

Subject Code for Geography and Planning GPHY

World Wide Web Address <http://queensu.ca/geographyandplanning/>

Head of Department W.Mabee

Departmental Office Mackintosh-Corry Hall, Room E208

Departmental Telephone 613-533-6030

E-Mail Address geography.info@queensu.ca

Associate Head – Undergraduate Program S.F.Lamoureux

Overview

The Department of Geography and Planning is an integrated department that studies the earth's places, societies, environments and landscapes. The Department is unique in bridging the social sciences and humanities (i.e., human geography) with earth system science (i.e., physical geography). Geography and Planning puts this understanding of social and physical processes within the context of places and regions - recognizing the great differences in cultures, political systems, economies, landscapes and environments across the world, and the links between them. In earth system 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 and Planning 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 and planning 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 and Planning provides an ideal framework for integrating other fields of knowledge. It is not surprising that geographers and planners often contribute substantially to the applied management of urban and regional systems, resources and environments. Students in our program can select from courses in urban, economic, social, historical and cultural geography, urban planning, as well as earth system science. A degree from the Department of Geography and Planning also provides a solid foundation in qualitative and quantitative research methods, remote sensing, and geographic information science. Students will be exposed to teamwork, active learning and real-world projects.

Departmental Policies

Ancillary Fees

Any student who participates in a Geography and Planning course where there are field trips may be required to pay a fee. Any student who participates in a 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). The GIS access fee is fully refundable upon return of the GIS access card.

Advice to Students

Prerequisites

Students majoring in geology may substitute GEOL 104/3.0 and GEOL 106/3.0 for GPHY 101/3.0 and GPHY 102/3.0 as a prerequisite for upper-level physical geography courses, but are expected to prepare themselves for these courses by extra reading.

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 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 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

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, 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 (2) OF: (GPHY 240/3.0 or SOCY 210/3.0); GPHY 242/3.0; GPHY 243/3.0; GPHY 247/3.0
TWO (2) OF: GPHY 227/3.0; GPHY 228/3.0; 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, GEOL 200/3.0; GPHY 247/3.0
ONE (1) OF: GPHY 242/3.0; GPHY 243/3.0
General/Minor (Science) 6.0 units from CHEM or MATH or STAT or PHYS at the 100 level or above
Major (Science) 6.0 units from MATH or STAT at the 100 level or above; 6.0 units from CHEM or PHYS at the 100 level or above

Geological Sciences and Geological Engineering

D.A.Archibald, A.Braun, M.S.Diederichs, G.Fotopoulos, L.Godin, J.A.Hanes, R.Harrap, A.Harrison, D.J.Hutchinson, N.P.James, H.E.Jamieson, T.K.Kyser, D.Layton-Matthews, M.Leybourne, G.M.Narbonne, G.R.Olivo, R.C.Peterson, V.H.Remenda

Departmental Notes

Subject Code GEOL

World Wide Web Address <http://www.queensu.ca/geol/>

Head of Department V.H. Remenda

Departmental Office Bruce Wing, Room 240

Departmental Telephone 613-533-2597

E-Mail Address geolundergradassistant@queensu.ca

Chair of Undergraduate Studies Geological Sciences D. Layton-Matthews

Chair of Undergraduate Studies Geological Engineering M. Diederichs (Fall)/ G. Fotopoulos (Winter)

Coordinator of Graduate Studies H.E.Jamieson

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 marshaled 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.

Students are required to possess basic safety equipment such as a hard hat, safety glasses, reflective vest and appropriate footwear, as specified for each course, and to have reviewed and signed the Departmental Field Safety Form and the OCASP form developed for each field trip or course. Field equipment is available for sale in the Main Office.

The cost of field trips and courses, including transportation, accommodation and food (when it is supplied), will be borne by the student.

A list of the field education costs for each course is provided on the departmental web page. These costs are subject to change, and will be finalized by June 1 each year for the following academic year. These costs will be payable by the due dates listed in the table. Subsidies will be provided by the Department when funding permits.

For students who are not registered in a Plan offered by the Department there will be a charge per field 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 and the OCASP form developed for each field trip or course.

Advice to Students

Students should seek **academic advice** from one of the program consultants listed below

DEPARTMENTAL PROGRAM	CONSULTANT	CONTACT
Environmental Geology	H.E.Jamieson	jamieson@queensu.ca
Structural Geology/Tectonics/Economic Geology	L. Godin	godin@queensu.ca
Paleontology/Sedimentary Geology	N.P.James	jamesn@queensu.ca
Petrology/Geochemistry	D.Layton-Matthews	dlayton@queensu.ca

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 Environmental Studies 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 B.Sc. degree in Geology. 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 B.A. 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 webpage.

<http://www.queensu.ca/geol/undergrad/geological-sciences>

Special Study Opportunities

Specialized graduate courses in some areas of Geology are available to qualified students in their final year, and may be counted for advanced standing in a Master's degree at Queen's University. For details, consult the Chair of Undergraduate Studies.

R.Day, M.Doxtater, K.Dubinsky, M.Epprecht, R.Hall, M.Hostetler, P.Kumar, R.Lovelace, D.A.McDonald, S.Soederberg, M.Taylor, K.Tienhaara

Departmental Notes

Subject Code DEVS

Head of Department M.Taylor

Office Mackintosh-Corry Hall, Room A404

Department Administrator B.Brousseau

Department Office Mackintosh-Corry Hall, Room B401

Telephone 613-533-3301

Fax 613-533-2986

E-Mail Address devs.student@queensu.ca

World Wide Web Address <http://www.queensu.ca/devs/>

Chair of Graduate Studies M.Hostetler

Chair of Undergraduate Studies P.Kumar

Placement Coordinator P.Kumar

Overview

Global Development Studies offers students critical insights into development theory and practice. We explore contested meanings of 'development' and analyze the institutions and practices through which development programmes are implemented at local, national and global levels. Our courses provide students with the analytical perspectives needed to understand how inequality is produced and reproduced, how resources are distributed, and how hierarchical relationships are maintained and challenged over time. Students in Global Development Studies gain a close understanding of how economic and political systems, cultural norms, physical environments, and status differences within and between countries of the North and the South shape development. A focus on issues such as poverty, cultural exchange, environmental sustainability, human rights, social policy, and Canadian indigenous communities help students appreciate 'development' as a relationship rather than as a characteristic of particular places and people.

The Department offers Major, Medial and Minor courses of study. We are an interdisciplinary department, working closely with the Departments of Geography, Economics, Environmental Studies, History, Languages, Literatures, and Cultures, Political Studies, Sociology and Gender Studies as well as the Queen's Aboriginal Council. Students enter the program in second year and follow a set curriculum of core courses, with latitude in choosing option courses around specific development themes and geographical regions.

Special Study Opportunities

DEVS 305 Cuban Society and Culture

Cuban Culture and Society is a 6.0-unit undergraduate course. It is part of an exchange agreement between Queen's and the University of Havana. 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 straddles Winter and Spring semesters. In the winter semester, participant meet intermittently until the exam period. It reconvenes after exams for several more pre-departure sessions, before leaving for Havana for two weeks in May. Queen's on-campus sessions combine readings, film screenings and active classroom discussions. In Havana the instructors are drawn from University of Havana faculty as well as practicing artists, filmmakers and musicians. Enrolment in the DEVS 305/6.0 course is through an application process. Ancillary fee is estimated to be \$3000 for travel costs. Course Application forms are available through the Global Development Studies Department, <https://www.queensu.ca/devs/undergraduate/international-study-program-cuba>.

Independent Work Study Abroad Program: DEVS 410/6.0 and DEVS 411/3.0

One of the most attractive features of the Development Studies program at Queen's is the opportunity it affords students to complete a placement in a development context 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 as diverse as AIDS education, land erosion prevention, human rights, and new immigrants to Canada.

The placement itself (6.0 units) usually takes place over the summer months following completion of the third 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 (3.0 units) is completed in the following Fall Term.

Enrolment in the DEVS 410/6.0 and DEVS 411/3.0 program is through an application process. Application forms are available through Global Development Studies Department, www.queensu.ca/devs. Very limited funds are available through an application process to support internships but in general, students are responsible for all costs.

Courses taken in the Queen's Semester in Shanghai program offered through the International Programs Office are pre-approved as option courses in DEVS Plans.

<http://www.queensu.ca/ipo/outgoing-students/semester-shanghai>

New Certificate Program: Launch date September 2018

Global Action and Engagement Certificate (GAEN)

The Global Action and Engagement certificate is a new program bringing together the Department of Global Development Studies, Arts and Science Online within the Faculty of Arts and Science, and partners in the School of International Development and Global Studies at the University of Ottawa. The program design is flexible to meet the needs of a wide range of learners, from those seeking preparation for work overseas to those who have participated in activities such as global service learning, international experiential learning, volunteer abroad and community-engagement fieldwork and practicums, and seeking formal education or training in global development to better understand the contexts.

The program will comprise 18.0 units of undergraduate courses, including 15.0 units of core courses and 3.0 units selected from a number of option courses. The required courses for the certificate program will be made up of existing Arts and Science online courses along with the development of new online courses (DEVS 260, DEVS 280, DEVS 361, DEVS 362, and LLCU 111). The culminating courses will include a 3.0 course in Global Engagement (DEVS 280), centered on active, collaborative, and self-reflexive modes of learning. It will lead students to reflect upon and unpack previous experiential learning activities that have taken place in the context of global development, while preparing them for future global engagement. The launch date of this online certificate is Fall 2018.

History

H.Adelman, D.H.Akenson, J.Brisson, C.-I.Caron, J.T.Carson, A.Chowdhury, J.R.Collins, R.Currarino, A.F.D'Elia, S.M.den Otter, K.Dubinsky, G.Dueck, A.English, E.J.Errington, R.P.H.Greenfield, M.Hardwick, J. Healey, E.M.Hill, A.Husain, A.Jainchill, R.L.Manley, S.Maynard, J.McNairn, I.Pande, D.S.Parker, L. Pasolli, A.Salzmman, A.Siljak, T.B.Smith, L.Trofimov, N.van Deusen, B.Walker, A.Weldemichael, D.Woolf

Departmental Notes

Subject Code HIST

Chair of Department R.Manley

Departmental Office Watson Hall, Room 212

Departmental Telephone 613-533-2150

Departmental Fax 613-533-6298

Department Manager Matthew Colby

E-Mail Address <matt.colby@queensu.ca>

Chair of Graduate Studies A.Jainchill

Graduate Business hist.grad@queensu.ca

Chair of Undergraduate Studies B.Walker

Undergraduate Business hist.undergrad@queensu.ca

World Wide Web Address <http://www.queensu.ca/history/>

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.

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 are in-class and follow a lecture/tutorial method. HIST 124/6.0 and HIST 125/6.0 are offered as online courses by Continuing and Distance Studies. A grade of C in any one of these courses is the minimum prerequisite for seminar work at the second year 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 333-499). 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 200-level 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.

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.

R. Chaykowski, G. Fisk, R. Hickey, D. Leighton, J. Lilius, B. Weinberg

Program Notes

Subject Codes EMPR (Undergraduate) MIR (Graduate)

Office Faculty of Arts and Science

Professor and Director, MIR Program R. Chaykowski

Office Robert Sutherland Hall 223

Telephone 613-533-6000 ext. 77322

E-Mail Address mir.program@queensu.ca

World Wide Web Address <http://mir.queensu.ca/>

Employment Relations Undergraduate Certificate Coordinator R. Hickey

Coordinator of Graduate Studies G. Fisk

Overview

The study of employment relations in Canada and globally has a long tradition at Queen's. The Queen's **undergraduate Certificate in Employment Relations** focuses on core elements of the field of work and employee-management relations, while taking account of social science perspectives from economics, law, management, and history.

The **undergraduate Certificate in Employment Relations** provides a broad foundation in the field of employment relations, including the areas of labour/employment law, labour-management relations, conflict management and negotiations, human resources management, and labour policy. Taken together, these courses and the resulting Certificate form the basis for a recognized university credential that will support students who are seeking entry level jobs in labour relations and human resources management after leaving Queen's.

Program

Graduates of the *Certificate in Employment Relations* will demonstrate a broad understanding of the major subjects and skills in employment relations. Through lectures, case studies, simulations, group discussions, team projects, and individual assignments, students will develop competencies in the use of appropriate methods to assess workplace challenges and problems. Students who successfully complete the *Certificate in Employment Relations* will be able to devise and sustain persuasive arguments and solve problems using a variety of disciplinary approaches.

The *Certificate in Employment Relations* consists of five (5) courses:

EMPR 200/3.0 Work and Employment Relations in Canada

EMPR 210/3.0 Employment Law

EMPR 220/3.0 Conflict Resolution

EMPR 230/3.0 Managing Human Resources and Employment Relations

EMPR 240/3.0 Labour Policy

The ***Certificate in Employment Relations*** can be completed fully online or through a combination of online and in-class courses.

Advice to Students

The *Certificate in Employment Relations* is open to current undergraduate degree students at Queen's University as well as to current and new part-time students. The Certificate program can be taken either in conjunction with a degree program, in which case the Arts and Science regulations concerning limited double counting of courses apply; or the Certificate can be earned as a stand-alone credential. New part-time students for the *Certificate in Employment Relations* need to meet existing admission criteria for certificates. New part-time student applicants can also enter the Faculty of Arts and Science as non-degree students and, if they meet Arts and Science eligibility criteria for progression to a degree program, can enroll in the Certificate program at a later date.

All students enrolled in the *Certificate in Employment Relations* program need to meet the Faculty of Arts and Science progression criteria.

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.

International Programs Office

Notes

Subject Code INTS

Associate Vice-Principal (International) K. O'Brien

Manager L.Esford

Study Abroad Coordinator M.Marshall

Exchange/Study Abroad Programs Assistant J.Tough

International Programs Assistant H. McCormick

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

H.Adelman

Notes

Subject Code for Jewish Studies JWST

Subject Code for Hebrew HEBR

Director H.Adelman

Office Watson Hall, Room 212

Telephone 613-533-2150

Fax 613-533-6298

E-Mail Address jewish.studies@queensu.ca;

World Wide Web Address www.queensu.ca/jewishstudies; www.queens.ca/history

Academic Advisers H.Adelman

Administrative Assistant C.Fehr

Email Address: fehr@queensu.ca

Overview

Jewish civilization has a recorded global history of 4,000 years. Drawing from texts spanning from the Hebrew Scriptures to post-modern writing, the study of the Jewish diasporas in their transnational historical and cultural contexts provides students with insight into the complexities of global culture, identity, religion, and politics. All Jewish Studies courses are offered in the History Department.

Advice to Students

Students considering a minor in Jewish Studies should consult with the Director of Jewish Studies. Those considering any advanced work related to Jewish Studies or Jewish professional work are encouraged to study Hebrew at Queen's and abroad, especially in Israel, with prior approval of the Director.

No specific background is required to enroll in many Jewish studies courses. Students wishing to take advantage of the opportunity to study Jewish life in the context of the surrounding cultures are urged to consider a degree in History as a major, medial, or minor

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 in Jewish Studies with the prior permission of the Director, toward credit in other departments, or toward general electives. Consult the International Programs Office as well as the Director for more information on Israeli and other universities, programs and scholarships.

One of the special features of the Jewish Studies Program at Queen's is dialogue courses, particularly courses about Jewish-Muslim and Palestinian-Israeli relations. These seminar courses are taught by two instructors with training in parallel fields who engage narratives from different perspectives about historical situations and contemporary situations.

Future Prospects

In addition to providing an undergraduate program, Jewish studies, like History, offers a background for many careers requiring liberal arts training, especially strong writing, research, and speaking skills. These include public service, government, education, law, business, social work, clergy, graduate study, journalism, and communal service. With backgrounds in the humanities, students also go to professional training in scientific fields such as medicine, nursing, physical and occupational therapy.

School of Kinesiology and Health Studies

Faculty Members: M.L.Adams, E.Bisung, P.A.Costigan, J.Côté, S.Fergus, B.Gurd, I.Janssen, S.J.King, A.Latimer-Cheung, E.Y.Lee, L.Lévesque, L.Martin, J.Masuda, E.Power, K.E.Pyke, R.M.Ross, J.Selinger, C.Szto, J.Tomasone, M.E.Tschakovsky

Cross-Appointed Members: M.A.Adams, B.Brouwer, J.T.Bryant, P.Collins, G.A.L.Davies, G.A.Dumas, J.Freeman, E.L.Morin, D.E.O'Donnell, L.Pelland

Departmental Notes

Subject Code for Health Studies HLTH

Subject Code for Kinesiology and Physical Education KNPE

Subject Code for Physical Activity Practicum Course PACT

World Wide Web Address <https://skhs.queensu.ca/>

Director of the School J.Côté

Associate Director of the School L.Lévesque

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

Department Manager and Undergraduate Chair A.van der Meulen

Academic Advisor and Program Coordinator, Undergraduate Studies M.Monte

Coordinator of Graduate Studies L.Lévesque

Overview

The School of Kinesiology and Health Studies offers a range of Program and Plan options to students in Arts and Science:

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 B.Sc.(Hons.) Kinesiology 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** Plan 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., behaviour, lifestyle choices). Major, Media 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 and grade in the foundational social determinants of health course (HLTH 101).

Departmental Policies

Special Fee for the Outdoor Education Course

In addition to tuition, students registering in PACT 338/3.0 will pay a fee (subject to change) of \$400 in order to defray the extraordinary costs involved in offering this outdoor education course. The School will be responsible for providing transportation, accommodation, food, and general equipment for the outdoor education camp

school; 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

Students in a Health Studies Plan may access KNPE 125/3.0, KNPE 225/3.0, KNPE 251/3.0, KNPE 265/3.0, KNPE 335/3.0, KNPE 336/3.0, KNPE 337/3.0, KNPE 365/3.0, KNPE 400/3.0, KNPE 433/3.0, KNPE 436/3.0 and KNPE 450/3.0.

A limited number of seats are available to students in Arts & Science in KNPE 367/3.0. 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 enrol 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 Kinesiology Specialization Plan within the Bachelor of Science (Honours) Program is by direct-entry; students apply from high school directly to the Ontario Universities' Application Centre for access to this program. Once admitted, the student will be automatically enrolled in the Kinesiology Specialization Plan. Admission to the Physical and Health Education Plan, leading to a Bachelor of Physical and Health Education (Honours) degree is closed, effective September 2017. The program closure will not impact students currently enrolled in the BPHEH program, as they will continue to be able to fulfill all of the degree requirements of the program.

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.

V.Altman, K.Aoki, C.Arndt, B.Bachmann, X.Bai, B.Bjorkman, N.Brinklow, D.F.Chamberlain, M.Chamberlain, M. Doxtater, N.Haklai, A.Halabi, M.Holzschuh Sator, J.Hosek, L.Jessop, C.Kani, M.Lizano, J.Luengo-Martinelli, A.Macedo, N.McDermott, D.J.Mennell, A.Nicaso, C.Palomares Salas, D.V.Pugh, C.Reinholtz, J.Rotermundt-de la Parra, D.Santeramo, H.J.Scott, I.St-Amand, P.E.Thompson, C.Zaccagnino

Departmental Notes

Subject Code for Anishinaabe Language ANSH
Subject Code for Arabic Language ARAB
Subject Code for Chinese CHIN
Subject Code for German Language GRMN
Subject Code for German Studies GMST
Subject Code for Hispanic Studies HISP
Subject Code for Indigenous Languages and Cultures INDC
Subject Code for Indigenous Studies INDG
Subject Code for Inuktitut INUK
Subject Code for Italian ITLN
Subject Code for Japanese JAPN
Subject Code for Languages, Literatures and Cultures LLCU
Subject Code for Linguistics LING
Subject Code for Mohawk MOHK
Subject Code for Portuguese PORT
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 <http://www.queensu.ca/llcu/home>
Acting Head of Department TBA
Associate Head of Department TBA
Departmental Office Kingston Hall, Room 416
Departmental Telephone 613-533-2072
Email Address llcu@queensu.ca
Fax 613 533-6496
Chair of Undergraduate Studies TBA
Administrative Assistants M.Maliszewska, L.Young

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 *Anishinaabemowin*, *Arabic*, *Chinese*, *German*, *Hebrew*, *Inuktitut*, *Italian*, *Japanese*, *Mohawk*, *Portuguese* and *Spanish*, Degree Plans in: *German Studies*; *Hispanic Studies*; *Indigenous Studies*; *Italian*; *Languages, Literatures and Cultures*; *Linguistics*, *Spanish and Latin American Studies*; and *World Language Studies*, and a Certificate in *Indigenous Languages and Cultures*. Learning a language prepares students to travel, live, or work internationally and makes them more linguistically competent in Canada's multicultural environment. The Department of Languages, Literatures and Cultures also offers over 40 courses in English as on various cultural and literary topics. These are open to non-LLCU students and can be taken as electives. A degree focusing on languages, literatures and cultures, or focusing on Linguistics, provides students with valuable transferable skills that are increasingly important in our global world, especially intercultural competencies which are becoming ever more relevant in today's global work environment. 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 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 thirteen different languages, other than English. Within the Department of Languages, Literatures and Cultures, language courses are offered in *Anishinaabemowin, Arabic, Chinese, German, Hebrew, Inuktitut, Italian, Japanese, Mohawk, Portuguese* 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 (Hispanic Studies; Languages, Literatures and Cultures), Medial (*German Studies, Hispanic Studies*) and Minor/General (*German Studies, Hispanic Studies, Indigenous Studies, Italian, Spanish and Latin American Studies* and *World Language Studies* [which can include any of the above languages and also *Anishinaabemowin, Arabic, Chinese, French, Ancient Greek, Hebrew, Inuktitut, Japanese, Mohawk, Portuguese, 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/General 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 all our Plans are encouraged to take advantage of the study abroad opportunities, spend their third year abroad, or participate in the Certificate in International Studies. 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 (\$35).

Chinese

INTERMEDIATE LEVEL 6.0 units in CHIN 100/6.0
6.0 units in CHIN 200/6.0
6.0 units in CHIN 300/6.0
With an overall GPA of 2.90 on these courses.

German

INTERMEDIATE LEVEL 6.0 units in GRMN 101/3.0 and GRMN 102/3.0
6.0 units in GRMN 201/3.0 and GRMN 202/3.0
6.0 units from GRMN at the 300 level
With an overall GPA of 2.90 on these courses.

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.

Certificate in Indigenous Languages and Cultures

The Certificate in Indigenous Languages and Cultures is open to current undergraduate degree students at Queen's. The Certificate can be taken in conjunction with a degree program, in which case the Arts and Science regulations about limited double counting of courses apply, or as a stand-alone credential. All students enrolled in the Certificate in Indigenous Languages and Cultures need to meet the Faculty of Arts and Science 1.6 GPA or high school prerequisite and the progression criteria. The Certificate consists of 15.0 units in Mohawk Language and Culture (MOHK 101/3.0; MOHK 102/3.0), Inuktitut Language and Culture (INUK 101/3.0), and Anishinaabe Language and Culture (ANSH 101/3.0, ANSH 102/3.0).

Notes

Subject Code LIBS

Faculty Coordinator J.Carson, Department of History

Email jc35@queensu.ca

Office

Telephone

Overview

Liberal Studies is designed to provide you with an integrated liberal studies education, structured around modes of critical thought, and focused on breadth rather than specialization. The Liberal Studies Minor/General will prepare you for work in the 21st-century, in jobs that may not yet exist but that will require you to have the transferable skills that can be gained through an interdisciplinary approach to intellectual inquiry, argument and analysis.

Advice to Students

The BA in Liberal Studies will start with a required foundational course, LIBS 100/3.0, which will introduce students to approaches, methodologies and fundamental questions in the humanities, social sciences and natural sciences. Students will then be required to select courses from each of the four modes of critical thought: scientific inquiry and reasoning, insights into contemporary society and culture, critical perspectives on history, and academic writing. Finally, a required capstone course, LIBS 300/3.0, will enable students to draw on and synthesize their learning using a collaborative, project-based approach. By fostering an interdisciplinary approach to intellectual inquiry, argument and analysis, the BA in Liberal Studies will prepare students for more in-depth study in a specific field or to enter a professional program such as law, as well as provide them with a strong comprehensive educational foundation and the adaptable skills for any career path or life activity

S.Abraham, M.A.Adams, J.Allingham, R.D.Andrew, A.Baer, B.Banfield, S.Basta, B.M.Bennett, G.Blohm, G.P.Côté, A.Craig, P.L.Davies, Q.Duan, E.C.Dumont, R.Easteal, A.V.Ferguson, J.T.Fisher, C.D.Funk, J. Gallivan, K.Gee, N. Ghasemlou, C.Graham, K.F.Jarrell, Z.Jia, G.Jones, F.Kan, M.D.Kawaja, M.Koti, A.E.Lomax, L.W.MacKenzie, R.J.MacLeod, N.S.Magoski, N.L.Martin, T.E.Massey, D.H.Maurice, C.R.Mueller, D.P.Munoz, R.Oko, M.Ormiston, T.R.S.Ozolins, S.Pang, M.Paré, M.P.Petkovitch, R.K.Poole, L.H.Raptis, J.N.Reynolds, S.H.Scott, S.P.Smith, P.Stroman, M.R.Szewczuk, C.Tayade, C.A.Ward, L.M.Winn, S.Zhang

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 Life Sciences LISC

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

Subject Code for Public Health Sciences EPID

Associate Dean, Life Sciences and Biochemistry L. Winn

Office Botterell Hall, Room 650

World Wide Web Address www.healthsci.queensu.ca/liscbchm/

Telephone 613-533-6527

Email Address lifesci@queensu.ca

Overview

The hallmark of the Life Sciences 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, Public Health Sciences, 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 Sub-plans dedicated to contemporary trans-disciplinary themes in the cardiovascular and respiratory sciences, drug development and human toxicology, cancer biology and genetics, and neuroscience.

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). The Department 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 Sciences Plans.

Program Policies

Laboratory Safety

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.

Access to Third and Fourth Year Courses

Students in the Life Sciences 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 Sciences Specialization and the Life Sciences 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 to complete these Plans. See Academic Regulations **2.4** and **2.6**.

Advice to Students

Students should seek **academic counseling** from staff in the Associate Dean's office:

COURSE PREFIX	COUNSELLOR	CONTACT INFORMATION
BCHM and LISC	L. Winn	lifesci@queensu.ca
BCHM and LISC	K. Rudder	lifesci@queensu.ca
BCHM and LISC	D. Cameron	biochem@queensu.ca

Students may also seek **academic counseling** from one of the counselors listed below.

COURSE PREFIX	COUNSELLOR	CONTACT INFORMATION
ANAT	L. MacKenzie	mackenzl@queensu.ca
BCHM	J. Allingham	allingham@queensu.ca
CANC and PATH	C. Nicol	nicolc@queensu.ca
CRSS	D. Maurice	mauriced@queensu.ca
EPID	A. Johnson	ana.johnson@queensu.ca
DDHT and PHAR	N. Philbrook	nikki.philbrook@queensu.ca
MICR	R. K. Poole	poolek@queensu.ca
NSCI	A. Lomax	lomaxa@queensu.ca
PHGY	A. Lomax	lomaxa@queensu.ca

- 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 Sub-plan is recommended to students who wish to proceed to graduate studies and research in Cancer Biology and Genetics. Students intending to take this sub-plan should consult the list of option courses required for completion of the program, and consider appropriate courses in Year 3.
- The Cardiorespiratory Sub-plan is recommended to students who wish to proceed to graduate studies and research in the cardiovascular and respiratory sciences. Students intending to take this sub-plan should complete PHGY 355/3.0 in Year 3.

- The Drug Discovery and Human Toxicology Sub-plan 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 Sub-plan 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 sub-plan complete both courses.

The Life Sciences Major Plan is recommended to students who wish to pursue a wider range of study than is possible with the Life Sciences Specialization Plan. Access to specialized courses at the 400 level may be limited, with priority given to students in the Life Sciences 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.

A.Ableson, S.G.Akl, F.Alajaji, T.Barthelme, G.Blohm, S.Blostein, O.Bogoyavlenskij, F.Cellarosi, B.E.Chen, T.Day, I.Dimitrov, B.Ghahsifard, M.Green, M.Guay, W.Jiang, E.Kani, B.Levit, A.Lewis, P.Li, D.Lin, T.Linder, F.Magpantay, A.-R.Mansouri, J.McLellan, J.A.Mingo, C.Molson, M.R.Murty, D.C.Offin, P.Peng, C.Pfaff, B.Rodgers, M.Roth, G.G.Smith, G.Takahara, P.D.Taylor, C.Tardif, D.J.Thomson, D.Tu, D.Wehlau, N.Yui, S.Yüksel

Departmental Notes

Subject Code for Biomathematics BIOM

Subject Code for Mathematics MATH

Subject Code for Statistics STAT

World Wide Web Address www.queensu.ca/mathstat

Head of Department J.Mingo

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 D.Lin

Coordinator of Graduate Studies S.Yüksel

Chair for Engineering Mathematics A.-R.Mansouri

Department Manager C. O'Brien

Overview

The Department of Mathematics and Statistics offers degree 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 (science), probability, and statistics. Our instructors include leading researchers and many winners of national and university teaching awards. The Department offers various plans in Mathematics and in Statistics, leading to either a B.A., B.A.(Hons.), B.Sc. or B.Sc.(Hons.) degree. A Plan in Mathematics and Engineering is also offered through 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 refer to 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 examinations 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 a minimum GPA of 3.50 in the mathematics and 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*.

Notes

Subject Code MDVL
Faculty Coordinator S.Straker, Department of English
Email straker@queensu.ca
Office Watson Hall, Room 436
Telephone 613-533-6000 Ext. 74424

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/General 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 coordinator of Medieval Studies. To minimize limitations, students are advised to take the supporting courses ENGL 100/6.0, HIST 121/6.0 or HIST 122/6.0; a first year course in ARTH would also be useful, as would CLST 201/3.0. Up to 6.0 units of approved language courses count towards this Plan.

Counsellors	
<i>Department of Classics</i>	B.Reeves
<i>Department of English</i>	S.Straker
<i>Department of History</i>	R.Greenfield
<i>Department of Philosophy</i>	J.Miller

Philosophy

D.J.Bakhurst, C.Cline, J.M.Davies, P.Fairfield, K.Gordon-Solmon, S.Johnston, D.Knight, R.Kumar, W.Kymlicka, S.R.Leighton, D.Lahoux, A.Lister, A.Mercier, J.Miller, M.Moore, J.M.Mozersky, R.Murty, E.Paul, N.Salay, U.Schüklenk, S.Sismondo, M.C.R.Smith, M.Smith, C.A.Sypnowich

Departmental Notes

Subject Code PHIL

World Wide Web Address <http://www.queensu.ca/philosophy/home>

Head of Department C.Sypnowich

Departmental Office Watson Hall, Room 312

Departmental Telephone 613-533-2182

Chair of Undergraduate Studies P.Fairfield

Coordinator of Graduate Studies D.J.Bakhurst

Overview

Philosophy will help you develop critical reasoning, as well as effective written and oral communication skills. You will be able to read critically so that you can find hidden assumptions, identify core premises, and evaluate arguments. You will study a range of key ideas and look closely at the work of a number of central philosophers from Plato to the present.

Courses become more focused and go into more depth as you move through your upper years of the program. You will be able to choose from a range of types of courses: from historical to contemporary, and from broad, theoretical investigations to more specifically problem-based inquiries.

Our classes create many opportunities for discussion, whether in small break-out groups or in our senior seminars. Students taking our Major or Medial Plans will be well prepared for graduate work in Philosophy or in other professional programs.

Advice to Students

Not all Philosophy courses are offered every year, so it is important to check the course offerings for the upcoming year on the department website at <http://www.queensu.ca/philosophy/students/undergrad-program>.

No more than 6.0 units in PHIL courses at the 100 level may be used toward the requirements of any PHIL Plan.

Upper-level courses in PHIL have prerequisites, including minimum GPA requirements. Please consult the course descriptions in the Faculty of Arts and Science Calendar <http://www.queensu.ca/artsci/students-at-queens/academic-calendar> or our website <http://www.queensu.ca/philosophy/students/undergraduate-program/400-level-courses>

For admission to all 500-level courses, students need the consent of a supervising faculty member of the Department and permission of the Undergraduate Chair based on the submission proposal.

Philosophy Courses as Electives

The department provides several options for students who wish to take one or more courses in Philosophy as electives. Many of our electives have no PHIL prerequisites, but are open to students with second-year or third-year standing. Please consult the course offerings to find courses suitable for you.

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)

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; PHIL 373/3.0; PHIL 374/3.0 (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 Undergraduate Chair.

J.Bramante, A.Braun, T.Carrington, M.Chen, L.Clapham, K.Clark, S.Courteau, M.M.Dignam, P.Di Stefano, J.M.Fraser, J.Gao, G.Gerbier, G.Giroux, R.J.Gooding, D.A.Hanes, S.Hughes, J.A.Irwin, R.G.Knobel, T.Krause, K.W.Lake, H.P.Loock, R.Martin, A.B.McLean, J.Morelli, K.S.Narayanan, A.J.Noble, J.M.Nunzi, B. Shastri, K.Spekkens, J.Stotz, A.Topper, G. van Anders, A.Vincent, G.Wade, L.Widrow, A.Wright

Departmental Notes

Subject Code for Astronomy ASTR

Subject Code for Physics PHYS

World Wide Web Address <http://www.queensu.ca/physics/home>

Head of Department M.M.Dignam

Associate Head of Department J.M. Fraser

Departmental Office Stirling Hall, Room 205

Departmental Telephone 613-533-2707

E-Mail Address 4mjb5@queensu.ca

Chair of Undergraduate Studies J.M. Fraser

Astronomy Advisor S.Courteau

Chair for Engineering Physics R.G.Knobel

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, and jointly with the Department of Mathematics and Statistics, a Specialization Plan in Mathematical Physics.

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 ASTR 101/3.0, ASTR 102/3.0 and PHYS 216/3.0.

First Courses in Physics

PHYS 104/6.0 and PHYS 106/6.0 are intended for students in 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 is 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.

ASTR 101/3.0, ASTR 102/3.0, PHYS P20/3.0, PHYS 260/3.0 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 P20/3.0, ASTR 101/3.0 and ASTR 102/3.0 can count toward a Minor(Arts)/General(Arts) in Physics; but are only electives in other Physics Plans.

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.

Ancillary Fees

Please note that in some courses you may be asked to purchase a lab or course manual containing material(s) specific to the lab/course content. Prices generally range from \$15 to \$25 per manual and are sold through Physics Stores.

PHYS P10 Fundamental Concepts in Physics for Teachers: Students may incur transportation costs to visit local schools, which are expected to be no more than \$50.

G.G.Amyot, C.Conaghan, W.Cox, Z.Csergo, C.Farrelly, E.Goodyear-Grant, J.A.Grant, D.Haglund, O.Haklai, K.Hanniman, J.Hiebert, A.Lister, M.Little, E.MacDonald, S.Martel, J.McGarry, M.Moore, K.R.Nossal, J.Rose, S.Soederberg, S.von Hlatky

Departmental Notes

Subject Code POLS

World Wide Web Address <http://www.queensu.ca/politics/home>

Head of Department Z.Csergo

Departmental Office Mackintosh-Corry Hall, Room C321

Departmental Telephone 613-533-6230

E-Mail Address ugpols@queensu.ca

Chair of Undergraduate Studies A.Grant

Undergraduate Assistant C.MacIntosh

Chair of Graduate Studies A.Lister

Graduate Assistant K. Fennell

Administrative Assistant Michelle Knapp-Hermer

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

Prerequisites

Upper-level courses in Political Studies have prerequisites, including minimum GPA requirements. Please consult the course descriptions in the Faculty of Arts and Science *Calendar* for more details.

Studying in French

With prior permission of the instructor, assignments and examinations may be submitted in French.

Advice to Students

Lecture and Seminar Courses

300-level courses are lecture courses. Most 400-level courses are seminars, but some are lecture courses. For further details, please consult the departmental homepage.

Special Study Opportunities

Third Year Abroad

Political Studies students are encouraged to consider taking part in an exchange program in their third year. Students should note that 400-level 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 that their grades are sufficient to satisfy the 400-level prerequisite before embarking on an exchange program. Those students in Medial or Major Plans must take POLS 384/3.0 in their second or 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.

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).

J. Atkinson, C. Bowie, M. Castelhana, M. Chivers, W. Craig, H.C. Dringenberg, L. Fabrigar, L. Flores, G.C. Fekken, S.A. Fitneva, R. Flanagan, J. Gallivan, K. Harkness, R.R. Holden, T. Hollenstein, D. Hauser, J. Jacobson, L.-J. Ji, E. Kelley, V.A. Kuhlmeier, T. MacDonald, J. Menard, K.G. Munhall, M. Norris, M.C. Olmstead, J. Poppenk, C.F. Pukall, M. Sabbagh, T. Salamons, J. Stewart, D. Tripp, N. Troje, S. van Anders, D. Wilson

Departmental Notes

Subject Code PSYC

World Wide Web Address <http://www.queensu.ca/psychology/>

Head of Department W. Craig

Departmental Office Humphrey Hall, Room 232

Departmental Telephone 613-533-2874

Undergraduate Office Humphrey Hall, Room 225

Undergraduate Telephone 613-533-2493

Undergraduate E-Mail Address ug.psyc@queensu.ca

Chair of Undergraduate Studies M. Norris

Coordinator of Graduate Studies H.C. Dringenberg/T. MacDonald

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 behavior, mechanisms of memory, motor control, and how we solve problems. 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 that will lead to a B.Sc.(Hons.) degree: the Major (Science) in Psychology and two interdisciplinary Plans, the Biology-Psychology Specialization and the Cognitive Science Specialization (see the Computing portion of this *Calendar*). Three Plans are available that lead to a B.A.(Hons.): the Major (Arts), Media (Arts), and Minor/General (Arts). Students in all Honours plan are required to complete courses in both the social and natural science branches for breadth, as well as core courses 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, IB) or college level introductory psychology course. PSYC 100/6.0 must be taken at Queen's for admission into an Honours psychology Plan.

Online Course Examination Requirement

All online courses in Psychology shall have a proctored final examination; student cannot pass an online course without passing the final examination.

Examination Absence

If a student has received instructor permission to defer an examination, they must register with the Undergraduate Office and be available to write the examination on the Department's deferred examination day. Procedures for requesting a deferred examination and the deferred examination 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://www.queensu.ca/psychology/undergraduate/current-students/course-information>

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 Undergraduate office in Psychology.

R.Ascough, E.Goldberg, F.Jahanbakhsh, J.Miller, W.Morrow, S. Mosurinjohn, T.Trothen, P.Dickey Young

Departmental Notes

Subject Code RELS

World Wide Web Address <http://www.queensu.ca/religion/>

Acting Director P. Dickey Young

Chair of Undergraduate Studies W. Morrow

Departmental Office Theological Hall, Room 212

Departmental Telephone 613-533-2106

E-Mail Address school.of.religion@queensu.ca

Fax 613-533-6879

Departmental Assistant TBA

Overview

Religion plays a major role in shaping and influencing various cultures and historical and political movements around the world. Thus, understanding religious traditions and their impact on diverse modern issues is vital preparation for building a career in the global marketplace. Studying religion involves examining the history of religious traditions, comparing the ideas and values of different religious systems, and understanding the place and function of religion in society. Students of Religious Studies investigate why people are religious, where religion comes from, and how it should be defined and understood.

T.Abrams, M.L.Adams, S.W.Baron, R.Beamish, A.Burfoot,, A.Goebel, M.Hand, V.Jefremovas, F.M.Kay, C.Levine-Rasky, D.Lyon, N.Möllers, D.Murakami-Wood, N. Myers, S.Sismondo, S.Soederberg, S.Srivastava, V.Sytsma, M.Taylor

Departmental Notes

Subject Code SOCY

World Wide Web Address <http://www.queensu.ca/sociology/home>

Head of Department A. Burfoot

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 F. Kay

Undergraduate Telephone 613-533-2166

Coordinator of Graduate Studies M. Hand

Overview

In Queen's Sociology Department, you will consider theories about how societies are organized and experienced, use social research methods to critically investigate what is happening, and explore areas such as crime, law and deviance, communications and media, gender and race, culture and consumption. We place a major emphasis on how to study a broad range of social processes, throughout the life course, from global systems to personal life.

Program Notes

Subject Code STSC

Coordinator for Stage and Screen Studies B.Allan

E-Mail Address allanb@queensu.ca

Some Departments/Schools have multiple versions of a Plan, which are dependent on student admission date. Please ensure you are viewing the correct version.

Students admitted to a CLST, ENVS, FREN, GEOL, KINE, or LING Plan prior to May 1st, 2015 should view their Plan in the Archived 2017-18 Academic Calendar.

Art History and Art Conservation

- [ARTH](#) – Art History
- [COCA](#) – Computing and the Creative Arts
- [MDVL](#) – Medieval Studies

Biochemistry

- [BCHM](#) – Biochemistry

Biology

- [BIMA](#) – Biology and Mathematics
- [BIOL](#) – Biology
- [BIPS](#) – Biology and Psychology
- [BTEC](#) – Biotechnology
- [EBIO](#) – Environmental Biology

Chemistry

- [CHEM](#) – Chemistry
- [ECHM](#) – Environmental Chemistry

Classics

- [CLAS](#) – Classics
- [CLST](#) – Classical Studies
- [GREK](#) – Greek
- [LATN](#) – Latin
- [MDVL](#) – Medieval Studies

Computing

- [BMCO](#) – Biomedical Computing
- [COCA](#) – Computing and the Creative Arts
- [COGS](#) – Cognitive Science
- [COMA](#) – Computing and Mathematics
- [COMP](#) – Computing
- [CSCI](#) – Computer Science
- [SODE](#) – Software Design

Drama and Music

- [COCA](#) – Computing and the Creative Arts
- [DRAM](#) – Drama
- [MUSC](#) – Music
- [MUTH](#) – Music Theatre
- [STSC](#) – Stage and Screen Studies

Economics

- [APEC](#) – Applied Economics
- [ECON](#) – Economics
- [PPEC](#) – Politics, Philosophy and Economics

English

- [ENGL](#) – English
- [MDVL](#) – Medieval Studies

Environmental Studies

- [EBIO](#) – Environmental Biology
- [ECHM](#) – Environmental Chemistry
- [EGEO](#) – Environmental Geology
- [EGPY](#) – Earth System Science
- [ELSC](#) – Environmental Life Sciences
- [ENSC](#) – Environmental Science
- [ENVS](#) – Environmental Studies
- [ETOX](#) – Environmental Toxicology

Film and Media

- [COCA](#) – Computing and the Creative Arts
- [FILM](#) – Film and Media
- [STSC](#) – Stage and Screen Studies

Fine Art

- [ARTV](#) – Fine Art (Visual Art)

French Studies

- [FREN](#) – French Studies
- [FRLG](#) – French Linguistics

Gender Studies

- [GNDS](#) – Gender Studies

Geography and Planning

- [EGPY](#) – Earth System Science
- [GPHY](#) – Geography

Geological Sciences and Geological Engineering

- [EGEO](#) – Environmental Geology
- [GEOL](#) – Geology

Global Development Studies

- [DEVS](#) – Global Development Studies

History

- [HIST](#) – History
- [JWST](#) – Jewish Studies
- [LIBS](#) – Liberal Studies
- [MDVL](#) – Medieval Studies

Jewish Studies

- [JWST](#) – Jewish Studies

Kinesiology and Health Studies

- [HLTH](#) – Health Studies
- [KINE](#) – Kinesiology
- [PHED](#) – Physical and Health Education

Languages, Literatures, and Cultures

- [COGS](#) – Cognitive Science
- [GMST](#) – German Studies
- [HISP](#) – Hispanic Studies
- [INDG](#) – Indigenous Studies
- [ITLN](#) – Italian
- [LANG](#) – World Language Studies
- [LING](#) – Linguistics
- [LLCU](#) – Languages, Literatures, and Cultures
- [SLAS](#) – Spanish and Latin American Studies
- [SPAN](#) – Spanish

Liberal Studies

- [LIBS](#) – Liberal Studies

Life Sciences

- [ELSC](#) – Environmental Life Sciences
- [LISC](#) – Life Sciences

Mathematics and Statistics

- [BIMA](#) – Biology and Mathematics
- [COMA](#) – Computing and Mathematics
- [MAPH](#) – Mathematical Physics
- [MATH](#) – Mathematics
- [STAT](#) – Statistics

Medieval Studies

- [MDVL](#) – Medieval Studies

Philosophy

- [COGS](#) – Cognitive Science
- [PHIL](#) – Philosophy
- [PPEC](#) – Politics, Philosophy and Economics

Physics, Engineering Physics, and Astronomy

- [ASPH](#) – Astrophysics
- [MAPH](#) – Mathematical Physics
- [PHYS](#) – Physics

Political Studies

- [POLS](#) – Political Studies
- [PPEC](#) – Politics, Philosophy and Economics

Psychology

- [BIPS](#) – Biology and Psychology
- [COGS](#) – Cognitive Science
- [PSYC](#) – Psychology

Religious Studies

- [RELS](#) – Religious Studies

Sociology

- [SOCY](#) – Sociology

Stage and Screen

- [STSC](#) – Stage and Screen Studies

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 120.0 units (114.0 units for students admitted prior to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(27.0 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 255/3.0
C.	3.0 units	from	ECON 250/3.0 or STAT 263/3.0
D.	6.0 units	in	ECON 310/3.0 and ECON 351/3.0
E.	3.0 units	in	ECON 452/3.0

2. Option	(33.0 units)		
A.	9.0 units	from	Option List 2.A.i. (Seminar) or 2.A.ii. (Thesis)
			<i>i. Seminar Option (9.0 units)</i>
		a.	3.0 units from ECON 480/3.0-499/3.0
		b.	6.0 units from ECON at the 400 level
			<i>ii. Thesis Option (9.0 units)</i>
		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.	3.0 units	from	ECON at any level
E.	9.0 units	from	ECON at any level; CISC 121/3.0; COMM 211/3.0; COMM 221/3.0; COMM 311/3.0; COMM 313/3.0; COMM 322/3.0; COMM 323/3.0; COMM 324/3.0; COMM 325/3.0; COMM 326/3.0; COMM 327/3.0; COMM 329/3.0; MATH 337/3.0; PPEC 200/3.0

3. Supporting	(6.0 units)		
A.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0); MATH 126/6.0

4. Additional Requirements	

5. Substitutions	

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.

Art History – Major (Arts) – Bachelor of Arts (Honours)

ARTH-M-BAH

Subject: Administered by the Department of Art History and Art Conservation.

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 (*114.0 units for students admitted prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(6.0 units)		
A.	6.0 units	from	(ARTH 116/3.0 and ARTH 117/3.0) or ARTH 120/6.0

2. Option	(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 309/3.0; 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	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

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 History and Art Conservation.

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 120.0 units (114.0 units for students admitted prior to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(6.0 units)		
A.	6.0 units	from	(ARTH 116/3.0 and ARTH 117/3.0) or ARTH 120/6.0

2. Option	(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 309/3.0; CLST 404/3.0; CLST 405/3.0; GNDS 350/3.0; GNDS 351/3.0; GNDS 352/3.0

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

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 History and Art Conservation.

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 History and Art Conservation.

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	(6.0 units)		
A.	6.0 units	from	(ARTH 116/3.0 and ARTH 117/3.0) or ARTH 120/6.0
2. Option	(24.0 units)		
A.	24.0 units	from	ARTH at the 100 level or above; CLST 309/3.0; CLST 404/3.0; CLST 405/3.0; GNDS 350/3.0; GNDS 351/3.0; GNDS 352/3.0
3. Supporting	(0.0 units)		
4. Additional Requirements			
5. Substitutions			
6. Notes			

Fine Art (Visual Art) – Major – Bachelor of Fine Art (Honours)

ARTV-M-BFH

Subject: Administered by the Fine Art (Visual Art) Program.

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	(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	(0.0 units)		

3. Supporting	(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			

5. Substitutions			

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-year ARTF courses consist of 12 hours of studio classes plus 15 hours of independent studio activities per week; and fourth-year ARTF courses consist of 24 hours of independent studio activities plus 1 hour of individual instruction per week, and 9 hours of seminars.
B.	(ARTH 226/3.0 and ARTH 228/3.0) or (ARTH 231/3.0 and ARTH 232/3.0) are recommended courses for Supporting Course 3.B .

ARTV-G-BFA

Subject: Administered by the Fine Art (Visual Art) Program.

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	(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	(0.0 units)		

3. Supporting	(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			

5. Substitutions			

6. Notes	
A.	This Plan, unlike most other General Plans, may <u>not</u> 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 12 hours of studio classes plus 15 hours of independent studio activities per week.
C.	(ARTH 226/3.0 and ARTH 228/3.0) or (ARTH 231/3.0 and ARTH 232/3.0) are recommended courses for Supporting Course 3.B .

Plans of study for students who were admitted to an Astrophysics Plan prior to May 2018

Astrophysics – Specialization (Science) – Bachelor of Science (Honours)

ASPH-P-BSH

Subject: Administered by the Department of Physics, Engineering Physics and 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	(93.0 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; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0); <i>MATH 122/6.0</i>
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 225/3.0 or MATH 231/3.0 or <i>MATH 232/3.0</i>
H.	27.0 units	from	PHYS 313/3.0, PHYS 315/3.0, PHYS 316/3.0; PHYS 317/3.0; PHYS 321/3.0, PHYS 344/3.0, PHYS 345/3.0, PHYS 350/3.0, PHYS 372/3.0, <i>PHYS 312/6.0</i>
I.	18.0 units	in	PHYS 414/3.0, PHYS 432/3.0, PHYS 435/3.0, PHYS 453/3.0, PHYS 590/6.0

2. Option	(6.0 units)		
A.	6.0 units	from	PHYS at the 400 level or above

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

6. Notes	

Plans of study for students who were admitted to an Astrophysics Plan after May 2018

Astrophysics – Specialization (Science) – Bachelor of Science (Honours)

ASPH-P-BSH

Subject: Administered by the Department of Physics, Engineering Physics and Astronomy.

Plan: Consists of 102.0 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	(96.0 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; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
E.	21.0 units	in	PHYS 206/3.0, PHYS 212/3.0, PHYS 213/3.0; 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 225/3.0 or MATH 231/3.0 or <i>MATH 232/3.0</i>
H.	27.0 units	in	PHYS 315/3.0, PHYS 316/3.0; PHYS 317/3.0; PHYS 321/3.0, PHYS 344/3.0, PHYS 345/3.0, PHYS 350/6.0, PHYS 372/3.0, <i>PHYS 312/6.0; PHYS 313/3.0</i>
I.	18.0 units	in	PHYS 414/3.0, PHYS 432/3.0, PHYS 435/3.0, PHYS 453/3.0, PHYS 590/6.0

2. Option	(6.0 units)		
A.	6.0 units	from	PHYS at the 400 level or above

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

6. Notes	

Plans of study for students who were admitted to a Biochemistry Plan prior to May 1, 2016

Biochemistry – Major (Science) – Bachelor of Science (Honours)

BCHM-M-BSH

Subject: Administered by the Department of Biomedical and Molecular Sciences.

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			
	(60.0 units)		
A.	6.0 units	in	CHEM 112/6.0
B.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
C.	6.0 units	in	BIOL 205/3.0 and BCHM 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.	15.0 units	in	BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, BCHM 317/6.0
F.	3.0 units	in	BCHM 441/3.0
G.	9.0 units	in	BCHM 410/3.0, BCHM 411/3.0, BCHM 432/3.0
H.	3.0 units	in	STAT 263/3.0

2. Option			
	(0.0 units)		

3. Supporting			
	(12.0 units)		
A.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
B.	6.0 units	from	PHYS 104/6.0; PHYS 106/3.0; PHYS 117/6.0

4. Additional Requirements			

5. Substitutions			

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.

Plans of study for students who were admitted to a Biochemistry Plan prior to May 1, 2016

Biochemistry – Minor (Science)

BCHM-Z

Subject: Administered by the Department of Biomedical and Molecular Sciences.

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.

Biochemistry – General (Science) – Bachelor of Science

BCHM-G-BSC

Subject: Administered by the Department of Biomedical and Molecular Sciences.

Plan: Consists of 48.0 units as described below.

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

1. Core	(42.0 units)		
A.	6.0 units	in	CHEM 112/6.0
B.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
C.	6.0 units	in	BIOL 205/3.0 and BCHM 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.	12.0 units	in	BCHM 315/3.0, BCHM 316/3.0, BCHM 317/6.0

2. Option	(0.0 units)		

3. Supporting	(0.0 units)		

4. Additional Requirements (6.0 units)			
A.	Minimum of an additional 6.0 units in the physical and natural sciences or mathematics, from ASC_Science.		

5. Substitutions			
A.	BCHM 310/9.0 and a further 6.0 units in the natural and physical sciences and mathematics may be substituted for 1.E.		

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.		

Plans of study for students who were admitted to a Biochemistry Plan prior to May 1, 2016

Biochemistry – Specialization (Science) – Bachelor of Science (Honours)

BCHM-P-BSH

Subject: Administered by the Department of Biomedical and Molecular Sciences.

Plan: Consists of 87.0 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		(84.0 units)	
A.	6.0 units	in	CHEM 112/6.0
B.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
C.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0
D.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
E.	6.0 units	in	BIOL 205/3.0 and BCHM 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.	15.0 units	in	BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, BCHM 317/6.0
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

2. Option		(3.0 units)	
A.	3.0 units	from	BCHM_Labs

3. Supporting		(0.0 units)	

4. Additional Requirements			

Plans of study for students who were admitted to a Biochemistry Plan between May 1, 2016 and May 1, 2018

Biochemistry – Major (Science) – Bachelor of Science (Honours)

BCHM-M-BSH

Subject: Administered by the Department of Biomedical and Molecular Sciences.

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		(57.0 units)	
A.	6.0 units	in	CHEM 112/6.0
B.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
C.	3.0 units	in	BCHM 218/3.0 or <i>MBIO 218/3.0</i>
D.	12.0 units	in	CHEM 211/3.0, CHEM 212/3.0, CHEM 222/3.0, CHEM 223/3.0
E.	15.0 units	in	BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, BCHM 317/6.0
F.	3.0 units	in	BCHM 441/3.0
G.	9.0 units	in	BCHM 410/3.0, BCHM 411/3.0, BCHM 432/3.0
H.	3.0 units	in	STAT 263/3.0

2. Option		(3.0 units)	
A.	3.0 units	from	BCHM_List_A

3. Supporting		(12.0 units)	
A.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0); <i>MATH 122/6.0</i>
B.	6.0 units	from	PHYS 104/6.0; PHYS 106/3.0; PHYS 117/6.0

4. Additional Requirements	

5. Substitutions	

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 205/3.0 and BIOL 206/3.0 as electives.
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.

Plans of study for students who were admitted to a Biochemistry Plan between May 1, 2016 and May 1, 2018**Biochemistry – Minor (Science)****BCHM-Z**

Subject: Administered by the Department of Biomedical and Molecular Sciences.

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.

Biochemistry – General (Science) – Bachelor of Science**BCHM-G-BSC**

Subject: Administered by the Department of Biomedical and Molecular Sciences.

Plan: Consists of 48.0 units as described below.

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

1. Core	(42.0 units)		
A.	6.0 units	in	CHEM 112/6.0
B.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
C.	6.0 units	in	BIOL 205/3.0 and (BCHM 218/3.0 or <i>MBIO 218/3.0</i>)
D.	12.0 units	in	CHEM 211/3.0, CHEM 212/3.0, CHEM 222/3.0, CHEM 223/3.0
E.	12.0 units	in	BCHM 315/3.0, BCHM 316/3.0, BCHM 317/6.0

2. Option	(0.0 units)		

3. Supporting	(0.0 units)		

4. Additional Requirements (6.0 units)			
A.	Minimum of an additional 6.0 units in the physical and natural sciences or mathematics, from ASC_Science.		

5. Substitutions			
A.	BCHM 310/9.0 and a further 6.0 units in the natural and physical sciences and mathematics may be substituted for 1.E.		

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.		

Plans of study for students who were admitted to a Biochemistry Plan between May 1, 2016 and May 1, 2018**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	(81.0 units)		
A.	6.0 units	in	CHEM 112/6.0
B.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
C.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0
D.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0); <i>MATH 122/6.0</i>
E.	3.0 units	in	BCHM 218/3.0 or <i>MBIO 218/3.0</i>
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.	15.0 units	in	BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, BCHM 317/6.0
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

2. Option	(3.0 units)		
A.	3.0 units	from	BCHM_Labs

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

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 205/3.0 and BIOL 206/3.0 as electives.

Plans of study for students who were admitted to a Biochemistry Plan after May 1, 2018

Biochemistry – Major (Science) – Bachelor of Science (Honours)

BCHM-M-BSH

Subject: Administered by the Department of Biomedical and Molecular Sciences.

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		(54.0 units)	
A.	6.0 units	in	CHEM 112/6.0
B.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
C.	3.0 units	in	BCHM 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.	15.0 units	in	BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, BCHM 317/6.0
F.	3.0 units	in	BCHM 441/3.0
G.	6.0 units	from	BCHM 410/3.0 or BCHM 411/3.0 or BCHM 432/3.0
H.	3.0 units	in	BIOL 243/3.0

2. Option		(6.0 units)	
A.	6.0 units	from	BCHM_List_A

3. Supporting		(12.0 units)	
A.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
B.	6.0 units	from	PHYS 104/6.0; PHYS 106/3.0; PHYS 117/6.0

4. Additional Requirements	

5. Substitutions	

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 205/3.0 and BIOL 206/3.0 as electives.
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.

Plans of study for students who were admitted to a Biochemistry Plan after May 1, 2018

Biochemistry – Minor (Science)

BCHM-Z

Subject: Administered by the Department of Biomedical and Molecular Sciences.

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.

Biochemistry – General (Science) – Bachelor of Science

BCHM-G-BSC

Subject: Administered by the Department of Biomedical and Molecular Sciences.

Plan: Consists of 48.0 units as described below.

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

1. Core	(42.0 units)		
A.	6.0 units	in	CHEM 112/6.0
B.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
C.	6.0 units	in	BIOL 205/3.0 and BCHM 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.	12.0 units	in	BCHM 315/3.0, BCHM 316/3.0, BCHM 317/6.0

2. Option	(0.0 units)		

3. Supporting	(0.0 units)		

4. Additional Requirements (6.0 units)			
A.	Minimum of an additional 6.0 units in the physical and natural sciences or mathematics, from ASC_Science.		

5. Substitutions			
A.	BCHM 310/9.0 and a further 6.0 units in the natural and physical sciences and mathematics may be substituted for 1.E.		

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.		

Plans of study for students who were admitted to a Biochemistry Plan after May 1, 2018

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	(81.0 units)		
A.	6.0 units	in	CHEM 112/6.0
B.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
C.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0
D.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
E.	3.0 units	in	BCHM 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	BIOL 243/3.0
H.	15.0 units	in	BCHM 313/3.0, BCHM 315/3.0, BCHM 316/3.0, BCHM 317/6.0
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

2. Option	(3.0 units)		
A.	3.0 units	from	BCHM_List_A

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

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 205/3.0 and BIOL 206/3.0 as electives.
C.	Recommended to take a course from the BCHM_Labs Course List.

Biochemistry Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

ASC_Science

Natural and Physical Science Courses

ANAT;
ASTR;
BCHM;
BIOL;
BIOM;
BMED 270/3.0; BMED 370/3.0; BMED 372/3.0; BMED 380/3.0; BMED 381/3.0; BMED 383/3.0; BMED 384/3.0; BMED 470/3.0; BMED 473/3.0; BMED 480/3.0; *BMED 482/3.0*; BMED 483/3.0;
CANC;
CHEE 209/3.0;
CHEM;
CISC;
COGS;
COMM 162/3.0;
COMP;
CRSS;
DDHT;
ECON 250/3.0;
ENSC 201/3.0; ENSC 301/3.0; ENSC 307/3.0; ENSC 320/3.0; ENSC 407/3.0; ENSC 425/3.0; ENSC 471/3.0; ENSC 480/3.0; ENSC 481/3.0;
EPID;
GEOL;
GLPH 472/3.0;
GPHY_Physical;
GPHY_Tech/Methods;
HLTH 230/3.0; HLTH 331/3.0;
KNPE 125/3.0; KNPE 153/3.0; KNPE 225/3.0; KNPE 227/3.0; KNPE 251/3.0; KNPE 254/3.0; KNPE 255/3.0; KNPE 261/3.0; KNPE 327/3.0; KNPE 339/3.0; KNPE 354/3.0; KNPE 355/3.0; KNPE 425/3.0; *KNPE 427/3.0*; KNPE 429/3.0; KNPE 439/3.0; KNPE 450/3.0; KNPE 454/3.0; KNPE 455/3.0; KNPE 459/3.0; KNPE 493/3.0;
LISC;
MATH;
MICR;
NSCI;
NURS 323/3.0; NURS 324/3.0;
PATH;
PHAR;
PHGY;
PHYS;
POLS 385/3.0;
PSYC 100/6.0; PSYC 101/3.0; PSYC 103/3.0; PSYC 202/3.0; PSYC 203/3.0; PSYC 205/3.0; PSYC 215/3.0; PSYC 221/3.0; PSYC 271/3.0, *PSYC 300/6.0*; PSYC 301/3.0; PSYC 302/3.0; PSYC 450/3.0; *PSYC 475/3.0*;
PSYC_Cluster_A;
SOCY 210/3.0; SOCY 211/3.0;
STAT

BCHM_Labs*Biochemistry Laboratory Courses*

ANAT 309/3.0; ANAT 312/3.0; ANAT 315/3.0; ANAT 316/3.0; BIOL 300/3.0; *BIOL 302/3.0*; *BIOL 303/3.0*; BIOL 321/3.0; BIOL 323/3.0; BIOL 335/3.0; *BIOL 338/3.0*; BIOL 403/3.0; BIOL 404/3.0; CHEM 397/6.0; CHEM 398/3.0; CHEM 399/3.0; LISC 390/3.0; LISC 391/3.0; MICR 435/3.0; PHGY 355/3.0

BCHM_List_A*Options in the Biochemistry Major Plan*

ANAT; CANC; CHEM; CRSS; DDHT; EPID; LISC; MICR; NSCI; PATH; PHAR; PHGY *excluding ANAT 270/3.0; BCHM 270/3.0; *CANC 497/3.0*; MICR 270/3.0; PHAR 270/3.0; any course numbered 499.

BCHM 410/3.0; BCHM 411/3.0; BCHM 432/3.0; BCHM 482/3.0; BIOL 205/3.0; BIOL 206/3.0; BIOM 300/3.0; BMED 370/3.0; BMED 373/3.0; BMED 380/3.0; *BMED 482/3.0*; HLTH 323/3.0; MATH 221/3.0; MATH 225/3.0; MATH 228/3.0; MATH 272/3.0; MATH 339/3.0; PHYS 206/3.0; PHYS 216/3.0; PHYS 242/3.0; PSYC 100/6.0; PSYC 205/3.0; PSYC 215/3.0; PSYC 235/6.0; PSYC 236/3.0; PSYC 251/3.0; PSYC 271/3.0; PSYC 323/3.0; PSYC 333/3.0; PSYC 353/3.0; PSYC 355/3.0; PSYC 370/3.0; PSYC 371/3.0; PSYC 420/3.0; PSYC 422/3.0; *PSYC 457/3.0*; PSYC 470/3.0; PSYC 471/3.0; PSYC 473/3.0.

Plans of study for students who were admitted to a Biology and Mathematics Specialization prior to May 1, 2016

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	(63.0 units)		
<i>Biology</i>			
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
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; BIOL 334/3.0; BIOL 341/3.0
F.	3.0 units	from	BIOL 330/3.0 or BCHM 218/3.0
<i>Mathematics</i>			
G.	6.0 units	from	MATH 110/6.0 or MATH 111/6.0
H.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
I.	3.0 units	from	MATH 221/3.0 or MATH 280/3.0
J.	3.0 units	from	MATH 225/3.0 or MATH 231/3.0 or <i>MATH 232/3.0</i>
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	(21.0 units)		
A.	6.0 units	from	BIOL at the 300 level or above; BIOL_Subs_A; BIOL_Subs_B
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	(0.0 units)		

4. Additional Requirements			

5. Substitutions			
A.	BCHM 310/9.0 (or the combination of BCHM 315/3.0 and BCHM 316/3.0) may be substituted for 3.0 units from (BIOL 339/3.0 or BIOL 341/3.0 or BIOL 334/3.0) with the remaining units applied toward Option Course requirements in the degree program.		

6. Notes			

Plans of study for students who were admitted to a Biology and Mathematics Specialization after May 1, 2016

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	(63.0 units)		
<i>Biology</i>			
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
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 300/3.0 or <i>BIOL 302/3.0</i> or <i>BIOL 303/3.0</i>
E.	3.0 units	from	BIOL 339/3.0; BIOL 334/3.0; BIOL 341/3.0
F.	3.0 units	in	BIOL 330/3.0
<i>Mathematics</i>			
G.	6.0 units	from	MATH 110/6.0 or MATH 111/6.0
H.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
I.	3.0 units	from	MATH 221/3.0 or MATH 280/3.0
J.	3.0 units	from	MATH 225/3.0 or MATH 231/3.0 or <i>MATH 232/3.0</i>
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	(21.0 units)		
A.	6.0 units	from	BIOL at the 300 level or above; BIOL_Subs_A; BIOL_Subs_B
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	(0.0 units)		

4. Additional Requirements			

5. Substitutions			
A.	BCHM 310/9.0 (or the combination of BCHM 315/3.0 and BCHM 316/3.0) may be substituted for 3.0 units from (BIOL 339/3.0 or BIOL 341/3.0 or BIOL 334/3.0) with the remaining units applied toward Option Course requirements in the degree program.		
B.	Students registered in a BIOL Plan prior to May 1, 2016 may use BCHM 218/3.0 as an alternative to BIOL 330/3.0 to satisfy requirement 1.F.		

6. Notes			

Biology and Mathematics Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

BIOL_Subs_A

Biology Substitutions List A

ANAT at the 300 level and above;
BCHM at the 300 level and above;
MICR 221/3.0; MICR at the 300 level and above;
LISC at the 300 level and above;
PATH at the 300 level and above;
PHGY at the 300 level and above

BIOL_Subs_B

Biology Substitutions List B

CHEE 400/6.0;
CHEM at the 200 level and above;
ENSC 301/3.0; ENSC 307/3.0; ENSC 320/3.0; ENSC 390/3.0; ENSC 425/3.0; ENSC 471/3.0
EPID 301/3.0;
GEOL 337/3.0; GEOL 466/3.0;
GPHY 304/3.0; GPHY 306/3.0; GPHY 314/3.0; GPHY 318/3.0; GPHY 339/3.0;
PHAR 340/3.0;
PHIL 301/3.0;
PSYC 235/6.0; PSYC 236/3.0; PSYC 271/3.0; PSYC 370/3.0; PSYC 371/3.0; PSYC 470/3.0;
STAT 353/3.0

Plans of study for students who were admitted to a Biology Plan prior to May 1, 2016

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	(30.0 units)		
<i>Biology</i>			
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; BIOL 334/3.0; BIOL 341/3.0
E.	3.0 units	from	BIOL 330/3.0 or BCHM 218/3.0
<i>Other</i>			
F.	3.0 units	from	BIOL 243/3.0 or STAT 269/3.0

2. Option	(30.0 units)		
A.	6.0 units	from	CHEM at the 200 level or above; ENSC 471/3.0; BIOL 334/3.0
B.	24.0 units	from	Option List 2.B.i . or 2.B.ii .
<i>i. Seminar Option (24.0 units)</i>			
a.	6.0 units	from	BIOL at the 400 level or above
b.	12.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A
c.	6.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A; BIOL_Sub_B
<i>ii. Research Option (24.0 units)</i>			
a.	12.0 units	in	BIOL 537/12.0
b.	6.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A
c.	6.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A; BIOL_Sub_B

3. Supporting	(12.0 units)		
A.	6.0 units	in	CHEM 112/6.0
B.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH123/3.0 and MATH 124/3.0)

4. Additional Requirements			

5. Substitutions	
A.	BCHM 310/9.0 (or the combination of BCHM 315/3.0 and BCHM 316/3.0) may be substituted for 3.0 units from (BIOL 339/3.0 or BIOL 341/3.0 or BIOL 334/3.0) with the remaining units applied toward Option Course requirements in the degree program.
B.	MATH 126/6.0 may be substituted for Supporting Courses 3.B. 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 PHYS 106/6.0 or PHYS 118/6.0 or <i>PHYS 107/6.0</i>) is highly recommended but not required.
B.	BIOL 334/3.0 can be used as either a Core Course or an Option course 2.A. , but not both.

Plans of study for students who were admitted to a Biology Plan prior to May 1, 2016

Biology – Minor (Science)

BIOL-Z

Subject: Administered by the Department of Biology.

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

Biology– General (Science) – Bachelor of Science

BIOL-G-BSC

Subject: Administered by the Department of Biology.

Plan: Consists of 48.0 units as described below.

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

1. Core	(6.0 units)		
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0

2. Option	(24.0 units)		
A.	6.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A
B.	6.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A; BIOL_Sub_B
C.	12.0 units	from	BIOL at the 200 level

3. Supporting	(6.0 units)		
A.	6.0 units	in	CHEM 112/6.0

4. Additional Requirements (12.0 units)			
A.	Minimum of an additional 12.0 units in the physical and natural sciences or mathematics, from ASC_Science		

5. Substitutions	

6. Notes	

Plans of study for students who were admitted to a Biology Plan prior to May 1, 2016

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	(24.0 units)		
<i>Biology</i>			
A.	6.0 units	in	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 110/3.0; BIOL 111/3.0; BIOL 205/3.0; BIOL 206/3.0; BIOL 302/3.0; BIOL 303/3.0; BIOL 334/3.0; BIOL 369/3.0

2. Option	(6.0 units)		
A.	6.0 units	from	BIOL at the 300 level; BCHM 218/3.0

3. Supporting	(6.0 units)		
A.	6.0 units	in	CHEM 112/6.0

4. Additional Requirements			

5. Substitutions			
A.	6.0 units from (PHGY 215/3.0 and PHGY 216/3.0) or <i>PHGY 210/6.0</i> or <i>PHGY 212/6.0</i> or <i>PHGY 214/6.0</i> can be substituted for 6.0 units from BIOL 201/3.0; BIOL 202/3.0; BIOL 205/3.0; BIOL 206/3.0. 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

Plans of study for students who were admitted to a Biology Plan prior to May 1, 2016

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	(42.0 units)		
<i>Core Program</i>			
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
C.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 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; BIOL 334/3.0; BIOL 341/3.0
G.	3.0 units	from	BIOL 330/3.0 or BCHM 218/3.0
<i>Core Courses</i>			
H.	3.0 units	from	BIOL 243/3.0 or STAT 269/3.0

2. Option	(54.0 units)		
A.	6.0 units	from	CHEM at the 200 level or above; ENSC 471/3.0; BIOL 334/3.0
B.	48.0 units	from	one of Option List 2.B.i or 2.B.ii .

<i>i. Seminar Option (48.0 units)</i>			
a.	6.0 units	from	BIOL at the 400 level or above
b.	30.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A
c.	12.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A; BIOL_Sub_B
<i>ii. Research Option (48.0 units)</i>			
a.	12.0 units	in	BIOL 537/12.0
b.	24.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A
c.	12.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A; BIOL_Sub_B

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	
A.	BCHM 310/9.0 (or the combination of BCHM 315/3.0 and BCHM 316/3.0) may be substituted for 3.0 units from (BIOL 339/3.0 or BIOL 341/3.0 or BIOL 334/3.0) with the remaining units applied toward Option Course requirements in the degree program.
B.	MATH 126/6.0 may be substituted for MATH 120/6.0 or MATH 121/6.0 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 PHYS 106/6.0 or PHYS 118/6.0 or <i>PHYS 107/6.0</i>) is highly recommended but not required.
B.	BIOL 334/3.0 can be used as either a Core Course or an Option Course 2.A. , but not both.

Plans of study for students who were admitted to a Biology Plan after May 1, 2016

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	(30.0 units)		
<i>Biology</i>			
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 300/3.0 or <i>BIOL 302/3.0</i> or <i>BIOL 303/3.0</i>
D.	3.0 units	from	BIOL 339/3.0; BIOL 334/3.0; BIOL 341/3.0
E.	3.0 units	in	BIOL 330/3.0
<i>Other</i>			
F.	3.0 units	from	BIOL 243/3.0 or STAT 269/3.0

2. Option	(30.0 units)		
A.	3.0 units	from	CHEM at the 200 level or above
B.	27.0 units	from	Option List 2.B.i . or 2.B.ii .
<i>i. Seminar Option (27.0 units)</i>			
a.	6.0 units	from	BIOL at the 400 level or above
b.	12.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A
c.	9.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A; BIOL_Sub_B
<i>ii. Research Option (27.0 units)</i>			
a.	12.0 units	in	BIOL 537/12.0
b.	6.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A
c.	9.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A; BIOL_Sub_B

3. Supporting	(12.0 units)		
A.	6.0 units	in	CHEM 112/6.0
B.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH123/3.0 and MATH 124/3.0)

4. Additional Requirements			

5. Substitutions	
A.	BCHM 310/9.0 (or the combination of BCHM 315/3.0 and BCHM 316/3.0) may be substituted for 3.0 units from (BIOL 339/3.0 or BIOL 341/3.0 or BIOL 334/3.0) with the remaining units applied toward Option Course requirements in the degree program.
B.	MATH 126/6.0 may be substituted for Supporting Courses 3.B. with prior approval from the Chair of Undergraduate Studies in the Department of Biology.
C.	Students registered in a BIOL Plan prior to May 1, 2016 may use BCHM 218/3.0 as an alternative to BIOL 330/3.0 to satisfy requirement 1.E.

6. Notes	
A.	PHYS 117/6.0 (or PHYS 104/6.0 or PHYS 106/6.0 or PHYS 118/6.0 or <i>PHYS 107/6.0</i>) is highly recommended but not required.

Plans of study for students who were admitted to a Biology Plan after May 1, 2016

Biology – Minor (Science)

BIOL-Z

Subject: Administered by the Department of Biology.

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

Biology– General (Science) – Bachelor of Science

BIOL-G-BSC

Subject: Administered by the Department of Biology.

Plan: Consists of 48.0 units as described below.

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

1. Core	(6.0 units)		
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0

2. Option	(24.0 units)		
A.	6.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A
B.	6.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A; BIOL_Sub_B
C.	12.0 units	from	BIOL at the 200 level

3. Supporting	(6.0 units)		
A.	6.0 units	in	CHEM 112/6.0

4. Additional Requirements (12.0 units)	
A.	Minimum of an additional 12.0 units in the physical and natural sciences or mathematics, from ASC_Science
5. Substitutions	
6. Notes	

Plans of study for students who were admitted to a Biology Plan after May 1, 2016

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		(24.0 units)	
<i>Biology</i>			
A.	6.0 units	in	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 110/3.0; BIOL 111/3.0; BIOL 205/3.0; BIOL 206/3.0; BIOL 300/3.0; BIOL 334/3.0; BIOL 369/3.0; <i>BIOL 302/3.0; BIOL 303/3.0</i>
2. Option		(6.0 units)	
A.	6.0 units	from	BIOL at the 300 level
3. Supporting		(6.0 units)	
A.	6.0 units	in	CHEM 112/6.0
4. Additional Requirements			

5. Substitutions	
A.	6.0 units from (PHGY 215/3.0 and PHGY 216/3.0) or <i>PHGY 210/6.0</i> or <i>PHGY 212/6.0</i> or <i>PHGY 214/6.0</i> can be substituted for 6.0 units from BIOL 201/3.0; BIOL 202/3.0; BIOL 205/3.0; BIOL 206/3.0. This substitution is not allowed in any other Biology Plan.
B.	Students registered in a BIOL Plan prior to May 1, 2016 may use BCHM 218/3.0 towards Option requirement 2.A.

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 Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

ASC_Science

Natural and Physical Science Courses

ANAT;
ASTR;
BCHM;
BIOL;
BIOM;
BMED 270/3.0; BMED 370/3.0; BMED 372/3.0; BMED 380/3.0; BMED 381/3.0; BMED 383/3.0; BMED 384/3.0;
BMED 470/3.0; BMED 473/3.0; BMED 480/3.0; *BMED 482/3.0*; BMED 483/3.0;
CANC;
CHEE 209/3.0;
CHEM;
CISC;
COGS;
COMM 162/3.0;
COMP;
CRSS;
DDHT;
ECON 250/3.0;
ENSC 201/3.0; ENSC 301/3.0; ENSC 307/3.0; ENSC 320/3.0; ENSC 407/3.0; ENSC 425/3.0; ENSC 471/3.0; ENSC 480/3.0; ENSC 481/3.0;
EPID;
GEOL;
GLPH 472/3.0;
GPHY_Physical;
GPHY_Tech/Methods;
HLTH 230/3.0; HLTH 331/3.0;
KNPE 125/3.0; KNPE 153/3.0; KNPE 225/3.0; KNPE 227/3.0; KNPE 251/3.0; KNPE 254/3.0; KNPE 255/3.0; KNPE 261/3.0; KNPE 327/3.0; KNPE 339/3.0; KNPE 354/3.0; KNPE 355/3.0; KNPE 425/3.0; *KNPE 427/3.0*; KNPE 429/3.0; KNPE 439/3.0; KNPE 450/3.0; KNPE 454/3.0; KNPE 455/3.0; KNPE 459/3.0; KNPE 493/3.0;
LISC;
MATH;
MICR;
NSCI;
NURS 323/3.0; NURS 324/3.0;
PATH;
PHAR;
PHGY;
PHYS;
POLS 385/3.0;
PSYC 100/6.0; PSYC 101/3.0; PSYC 103/3.0; PSYC 202/3.0; PSYC 203/3.0; PSYC 205/3.0; PSYC 215/3.0; PSYC 221/3.0; PSYC 271/3.0, *PSYC 300/6.0*; PSYC 301/3.0; PSYC 302/3.0; PSYC 450/3.0; PSYC_Cluster_A;
SOCY 210/3.0; SOCY 211/3.0;
STAT

BIOL_Subsub_A***Biology Substitutions List A***

ANAT at the 300 level and above;
BCHM at the 300 level and above;
MICR 221/3.0; MICR at the 300 level and above;
LISC at the 300 level and above;
PATH at the 300 level and above;
PHGY at the 300 level and above

BIOL_Subsub_B***Biology Substitutions List B***

CHEE 400/6.0;
CHEM at the 200 level and above;
ENSC 301/3.0; ENSC 307/3.0; ENSC 320/3.0; ENSC 390/3.0; ENSC 425/3.0; ENSC 471/3.0;
EPID 301/3.0;
GEOL 337/3.0; GEOL 466/3.0;
GPHY 304/3.0; GPHY 306/3.0; GPHY 314/3.0; GPHY 318/3.0; GPHY 339/3.0;
PHAR 340/3.0;
PHIL 301/3.0;
PSYC 235/6.0; PSYC 236/3.0; PSYC 271/3.0; PSYC 370/3.0; PSYC 371/3.0, PSYC 470/3.0
STAT 353/3.0

Plans of study for students who were admitted to a Biology and Psychology Specialization prior to May 1, 2016

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	(45.0 units)		
<i>Biology</i>			
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
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; BIOL 334/3.0; BIOL 341/3.0
F.	3.0 units	from	BCHM 218/3.0 or BIOL 330/3.0
<i>Psychology</i>			
G.	6.0 units	in	PSYC 100/6.0
H.	3.0 units	from	BIOL 243/3.0 or PSYC 202/3.0
I.	3.0 units	in	PSYC 203/3.0

2. Option	(39.0 units)		
<i>Biology</i>			
A.	3.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A
B.	6.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A; BIOL_Sub_B_Excluding_PSYC
<i>Psychology</i>			
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 236/3.0; PSYC 241/3.0; PSYC 251/3.0
E.	3.0 units	from	PSYC_Labs_BIPS
F.	3.0 units	from	PSYC_Cluster_A
G.	6.0 units	from	PSYC_Cluster_B
H.	6.0 units	from	PSYC at the 200 level or above; PSYC_Sub_B_Excluding_BIOL

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Maximum 3.0 units from PSYC_Sub_B_Excluding_BIOL		

5. Substitutions			
A.	BCHM 310/9.0 (or the combination of BCHM 315/3.0 and BCHM 316/3.0) may be substituted for 3.0 units from (BIOL 339/3.0 or BIOL 341/3.0 or BIOL 334/3.0) with the remaining units applied toward Option Course requirements in the degree program.		

6. Notes			
A.	PHYS 117/6.0 (or PHYS 104/6.0 or PHYS 106/6.0 or PHYS 118/6.0) is highly recommended but not required.		

Plans of study for students who were admitted to a Biology and Psychology Specialization after May 1, 2016
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	(45.0 units)		
<i>Biology</i>			
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
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 300/3.0 or <i>BIOL 302/3.0</i> or <i>BIOL 303/3.0</i>
E.	3.0 units	from	BIOL 339/3.0; BIOL 334/3.0; BIOL 341/3.0
F.	3.0 units	in	BIOL 330/3.0
<i>Psychology</i>			
G.	6.0 units	in	PSYC 100/6.0
H.	3.0 units	from	BIOL 243/3.0 or PSYC 202/3.0
I.	3.0 units	in	PSYC 203/3.0

2. Option	(39.0 units)		
<i>Biology</i>			
A.	3.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A
B.	6.0 units	from	BIOL at the 300 level or above; BIOL_Sub_A; BIOL_Sub_B_Excluding_PSYC
<i>Psychology</i>			
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 236/3.0; PSYC 241/3.0; PSYC 251/3.0
E.	3.0 units	from	PSYC_Labs_BIPS
F.	3.0 units	from	PSYC_Cluster_A
G.	6.0 units	from	PSYC_Cluster_B
H.	6.0 units	from	PSYC at the 200 level or above; PSYC_Sub_B_Excluding_BIOL

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Maximum 3.0 units from PSYC_Sub_B_Excluding_BIOL		

5. Substitutions			
A.	BCHM 310/9.0 (or the combination of BCHM 315/3.0 and BCHM 316/3.0) may be substituted for 3.0 units from (BIOL 339/3.0 or BIOL 341/3.0 or BIOL 334/3.0) with the remaining units applied toward Option Course requirements in the degree program.		
B.	Students registered in a BIOL Plan prior to May 1, 2016 may use BCHM 218/3.0 as an alternative to BIOL 330/3.0 to satisfy requirement 1.F.		

6. Notes

A.

PHYS 117/6.0 (or PHYS 104/6.0 or PHYS 106/6.0 or PHYS 118/6.0) is highly recommended but not required.

Biology and Psychology Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

BIOL_Subs_A

Biology Substitutions List A

ANAT at the 300 level and above;
BCHM at the 300 level and above;
MICR 221/3.0; MICR at the 300 level and above;
LISC at the 300 level and above;
PATH at the 300 level and above;
PHGY at the 300 level and above

BIOL_Subs_B_Excluding_PSYC

Biology Substitutions List B Excluding Psychology

CHEE 400/6.0;
CHEM at the 200 level and above;
ENSC 301/3.0; ENSC 307/3.0; ENSC 320/3.0; ENSC 390/3.0; ENSC 425/3.0; ENSC 471/3.0;
EPID 301/3.0;
GEOL 337/3.0; GEOL 466/3.0;
GPHY 304/3.0; GPHY 306/3.0; GPHY 314/3.0; GPHY 318/3.0; GPHY 339/3.0;
PHAR 340/3.0;
PHIL 301/3.0;
STAT 353/3.0

PSYC_Subs_B_Excluding_BIOL

Psychology Substitutions List B excluding BIOL (200-level and above)

ANAT 312/3.0;
CISC 325/3.0; CISC 352/3.0; CISC 452/3.0; CISC 453/3.0;
COGS 201/3.0; COGS 300/3.0; COGS 400/3.0;
COMM 231/3.0; COMM 251/3.0; COMM 333/3.0; COMM 351/3.0; COMM 352/3.0; COMM 355/3.0; COMM 359/3.0;
ECON 261/3.0;
GPHY 336/3.0;
INTS 306/3.0; INTS 307/3.0;
LING 310/3.0;
NSCI 323/3.0; NSCI 324/3.0; NSCI 401/3.0; NSCI 414/3.0;
PHIL 301/3.0; PHIL 311/3.0; PHIL 351/3.0;
POLS 312/3.0; POLS 313/3.0;
SOCY 275/3.0; SOCY 276/3.0; SOCY 387/3.0; SOCY 388/3.0; SOCY 389/3.0;
STAT 460/3.0; STAT 463/3.0; STAT 464/3.0; STAT 471/3.0; STAT 473/3.0; STAT 486/3.0

PSYC_Cluster_A

Brain, Behaviour and Cognitive Science

PSYC 305/6.0; PSYC 315/3.0; PSYC 321/3.0; PSYC 323/3.0; PSYC 350/3.0; PSYC 352/3.0; PSYC 353/3.0; PSYC 355/3.0; PSYC 360/3.0; PSYC 370/3.0; PSYC 371/3.0; *PSYC 372/3.0*; PSYC 375/3.0; PSYC 380/3.0; PSYC 398/3.0; PSYC 420/3.0; PSYC 422/3.0; PSYC 423/3.0; PSYC 450/3.0; PSYC 452/3.0; PSYC 453/3.0; PSYC 456/3.0; *PSYC 457/3.0*; PSYC 470/3.0; PSYC 471/3.0; PSYC 473/3.0; PSYC 485/3.0; PSYC 495/3.0; PSYC 550/3.0; PSYC 555/3.0; PSYC 570/3.0; PSYC 575/3.0

PSYC_Cluster_B***Developmental, Social and Clinical***

PSYC 332/3.0; PSYC 333/3.0; PSYC 334/3.0; PSYC 335/3.0; PSYC 341/3.0; PSYC 342/3.0; PSYC 348/3.0; PSYC 350/3.0; PSYC 351/3.0; PSYC 352/3.0; PSYC 353/3.0; PSYC 355/3.0; PSYC 397/3.0; PSYC 399/3.0; PSYC 400/3.0; PSYC 430/3.0; PSYC 433/3.0; PSYC 434/3.0; PSYC 435/3.0; PSYC 436/3.0; PSYC 437/3.0; *PSYC 439/3.0*; PSYC 440/3.0; PSYC 441/3.0; PSYC 442/3.0; PSYC 443/3.0; PSYC 446/3.0; PSYC 450/3.0; PSYC 452/3.0; PSYC 453/3.0; PSYC 455/3.0; PSYC 456/3.0; *PSYC 457/3.0*; PSYC 480/3.0; PSYC 490/3.0; PSYC 550/3.0; PSYC 555/3.0; PSYC 570/3.0; PSYC 575/3.0

PSYC_Labs_BIPS***Psychology Laboratory Courses***

PSYC 305/6.0; PSYC 315/3.0; PSYC 323/3.0; PSYC 355/3.0 (Winter 2017 onward); PSYC 360/3.0; PSYC 371/3.0; *PSYC 372/3.0*; PSYC 375/3.0; PSYC 380/3.0; PSYC 399/3.0 (**2008-2009**); PSYC 495/3.0; PSYC 570/3.0; PSYC 575/3.0

BMCO-P-BCH (Biomedical Computing)

BMCO-I-BCH (Biomedical Computing with Professional Internship)

Subject: Administered by the School of Computing in cooperation with the Departments of Biology, Chemistry, and Biomedical and Molecular Sciences.

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		(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	(CISC 102/3.0 and MATH 112/3.0) or (CISC 102/3.0 and MATH 111/6.0) or MATH 110/6.0
E.	6.0 units	from	MATH 120/6.0 or MATH 121/6.0 or (MATH 123/3.0 and MATH 124/3.0)
F.	3.0 units	from	STAT 263/3.0 or STAT_Options
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	in	BCHM 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	from	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 and CISC 472/3.0
N.	3.0 units	in	CISC 497/3.0
O.	3.0 units	in	CISC 499/3.0 or CISC 500/6.0

2. Option		(9.0 units)	
A.	9.0 units	from	BMCO_Options

3. Supporting		(0.0 units)	

4. Additional Requirements			

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.(Hons.) 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 <i>Introductory Courses</i> 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.

Biomedical Computing Course List

The following list 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 Open Enrolment period, and then only if space permits.

BMCO_Options

Options in the Biomedical Computing Plan

CHEM 281/3.0; CHEM 282/3.0; CHEM 285/3.0;

PHGY 215/3.0; PHGY 216/3.0; *PHGY 214/6.0*;

(ANAT; BIOL; BCHM; CANC; CISC; CISC_Subs; CRSS; DDHT; EPID; LISC; *MBIO*; MICR; PATH; PHAR; PHGY) at the 300 level or above

CISC_Subs

Courses in other departments usable as CISC options

COMM 365/3.0; ELEC 470/3.0; ELEC 471/3.0; ELEC 476/3.0; ELEC 478/3.0; MATH 272/3.0; MATH 337/3.0; MATH 401/3.0; MATH 402/3.0; MATH 434/3.0; MATH 474/3.0.

STAT_Options

Statistic Course Options

BIOL 243/3.0; CHEE 209/3.0; COMM 162/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0; NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0

Biotechnology –Specialization (Science) – Bachelor of Science (Honours)

BTEC-P-BSH

Subject: Administered by the Department of Biology.

Plan: Consists of 90.0 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	(48.0 units)		
<i>Core Program</i>			
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
B.	6.0 units	in	BIOL 205/3.0 and BIOL 206/3.0
C.	6.0 units	from	BIOL 334/3.0; BIOL 339/3.0; BIOL 341/3.0
D.	6.0 units	in	BIOL 330/3.0 and BCHM 218/3.0
E.	3.0 units	from	BIOL 401/3.0 or BIOL 402/3.0
F.	3.0 units	from	BIOL 403/3.0 or BIOL 404/3.0
G.	3.0 units	from	BIOL 360/3.0; BIOL 503/3.0; BIOL 507/3.0; BCHM 441/3.0
<i>Other Core</i>			
H.	6.0 units	In	CHEM 112/6.0
I.	6.0 units	from	MATH 121/6.0 or MATH 120/6.0 or (MATH 123/3.0 and MATH 124/3.0)
J.	3.0 units	from	BIOL 243/3.0 or STAT 269/3.0

2. Option	(42.0 units)		
A.	6.0 units	from	CHEM at the 200 level or above; BIOL 334/3.0
B.	12.0 units	from	BTEC_Biology
C.	6.0 units	from	Option List 2.C.i. or 2.C.ii.
<i>i. Biology Option (6.0 units)</i>			
a.	6.0 units	in	BIOL 201/3.0 and BIOL 202/3.0
<i>ii. Biomedical and Molecular Science Option (6.0 units)</i>			
a.	6.0 units	from	BCHM 270/3.0; MICR 221/3.0; MICR 270/3.0; PHAR 270/3.0; PHGY 215/3.0; PHGY 216/3.0; PHGY 210/6.0; PHGY 214/6.0
D.	18.0 units	from	Option List 2.D.i. or 2.D.ii.
<i>i. Course Option (18.0 units)</i>			
a.	18.0 units	from	BTEC_Biology; BTEC_Options
<i>ii. Research Option (18.0 units)</i>			
a.	12.0 units	from	BIOL 537/12.0 or BIOL 541/12.0
b.	6.0 units	from	BTEC_Biology; BTEC_Options

3. Supporting			

4. Additional Requirements			

5. Substitutions	
A.	MATH 126/6.0 may be substituted for 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.	Each of BIOL 334/3.0, BIOL 339/3.0, BIOL 341/3.0, BIOL 401/3.0, BIOL 402/3.0, BIOL 403/3.0 and BIOL 404/3.0 can be used as either a Core Course or an Option Course, but not both.
B.	This Plan may be combined with the Biotechnology Diploma Program offered by St. Lawrence College. Students taking the combined degree/diploma must choose the Research Option 2.D.ii . For further details consult the Department of Biology.
C.	BIOL 538/3.0, BIOL 539/3.0 and BIOL 540/6.0 can be used towards elective requirements, but cannot be used towards Option Course requirements.
D.	CHEE courses at the 300 level and above require a course in differential equations such as BIOM 300/3.0 or MATH 225/3.0 or MATH 232/3.0 and permission of the Department.

Biotechnology Course Lists

The following lists contain 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.

BTEC_Biology

Biotechnology Biology Courses

BIOL 315/3.0; BIOL 331/3.0; BIOL 333/3.0; BIOL 334/3.0; BIOL 339/3.0; BIOL 341/3.0; BIOL 360/3.0; BIOL 401/3.0; BIOL 402/3.0; BIOL 403/3.0; BIOL 404/3.0; BIOL 409/3.0; BIOL 430/3.0; BIOL 431/3.0; BIOL 432/3.0; BIOL 441/3.0; BIOL 501/3.0; BIOL 502/3.0; BIOL 503/3.0; BIOL 506/3.0; BIOL 507/3.0; BIOL 508/3.0

BTEC_Options

Biotechnology Option Courses

BCHM 315/3.0; BCHM 316/3.0; BCHM 410/3.0; BCHM 411/3.0; BCHM 432/3.0;
CHEE 229/3.0; CHEE 342/3.0; CHEE 380/3.0; CHEE 400/6.0; CHEE 405/3.0; CHEE 440/3.0; CHEE 450/3.0;
CHEE 484/3.0;
DDHT 459/3.0; DDHT 460/3.0;
MICR 221/3.0; MICR 360/3.0; MICR 435/3.0; MICR 451/3.0; MICR455/6.0; MICR 461/3.0;
PHAR 270/3.0; PHAR 340/3.0; PHAR 416/3.0; PHAR 450/3.0

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	(57.0 units)		
A.	6.0 units	in	CHEM 112/6.0
B.	3.0 units	from	MATH 110/6.0; MATH 111/6.0; 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	(3.0 units)		
A.	3.0 units	from	CHEM at the 400 level

3. Supporting	(12.0 units)		
A.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0
B.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH123/3.0 and MATH 124/3.0)

4. Additional Requirements			

5. Substitutions			

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 will lead to a Bachelor of Science Degree.

1. Core	(27.0 units)		
A.	6.0 units	in	CHEM 112/6.0
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; CHEM 399/3.0; CHEM 397/6.0

2. Option	(9.0 units)		
A.	9.0 units	from	CHEM at the 300 level

3. Supporting	(12.0 units)		
A.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0
B.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH123/3.0 and MATH 124/3.0)

4. Additional Requirements			

5. Substitutions			

6. Notes			

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 units, will lead to a Bachelor of Arts Degree.

1. Core	(6.0 units)		
A.	6.0 units	in	CHEM 112/6.0

2. Option	(24.0 units)		
A.	3.0 units	from	CHEM at the 300 level
B.	21.0 units	from	CHEM

3. Supporting	(6.0 units)		
A.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH123/3.0 and MATH 124/3.0)

4. Additional Requirements			

5. Substitutions			

6. Notes			

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	(69.0 units)		
A.	6.0 units	in	CHEM 112/6.0
B.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0
C.	3.0 units	from	MATH 110/6.0; MATH 111/6.0; MATH112/3.0
D.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (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, CHEM 397/6.0
G.	6.0 units	In	CHEM 497/6.0

2. Option	(21.0 units)		
A.	12.0 units	from	CHEM at the 400 level or above; CHEM_Sub
B.	9.0 units	from	CHEM; CHEM_Sub

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	A maximum of 12.0 units may be chosen from CHEM_Sub.		

5. Substitutions			

6. Notes			

Chemistry Course List

The following list 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 Open Enrolment period, and then only if space permits.

CHEM_Subs

Substitutions in the Chemistry Specialization Plan

BCHM at the 300 level or above;

BCHM 218/3.0;

PHYS 424/3.0

Plans of study for students who were admitted to a Classics Plan after May 1, 2015

Classics – Specialization (Arts) – Bachelor of Arts (Honours)

CLAS-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 120.0 units (*114.0 units for students admitted prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(48.0 units)		
A.	6.0 units	in	CLST 102/3.0 and CLST 103/3.0
B.	12.0 units	in	GREK 112/6.0 and LATN 110/6.0
C.	6.0 units	in	CLST 200/3.0 and CLST 201/3.0
D.	12.0 units	in	GREK 208/6.0 and LATN 209/6.0
E.	6.0 units	in	LATN 321/3.0 and LATN 322/3.0
F.	6.0 units	in	GREK 321/3.0 and GREK 322/3.0

2. Option	(36.0 units)		
A.	6.0 units	from	CLST at the 400 level
B.	18.0 units	from	(CLST; GREK; LATN; CLAS_Sub) at the 300 or 400 level
C.	6.0 units	from	(CLST; GREK; LATN; CLAS_Sub) at the 200 level
D.	6.0 units	from	(CLST; GREK; LATN; CLAS_Sub) at the 100 level or above

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	It is recommended that courses numbered at the 100 level be taken early in the program (in first or second year).		

Classics Course List

The following list 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 Open Enrolment period, and then only if space permits.

CLAS_Subs

Classics Substitutions

ARTH 214/3.0; ARTH 215/3.0; GPHY 341/3.0; HIST 215/3.0; HIST 218/3.0; *HIST 250/6.0*; HIST 332/3.0; LLCU 201/3.0; LLCU 210/3.0; RELS 212/3.0; RELS 228/3.0; RELS 321/3.0

Plans of study for students who were admitted to a Classical Studies Plan after May 1, 2015

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 120.0 units (*114.0 units for students admitted prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(12.0 units)		
A.	6.0 units	in	CLST 102/3.0 and CLST 103/3.0
B.	6.0 units	in	CLST 200/3.0 and CLST 201/3.0

2. Option	(48.0 units)		
A.	6.0 units	from	CLST at the 400 level
B.	18.0 units	from	(CLST; GREK; LATN; CLST_Subs) at the 300 or 400 level
C.	6.0 units	from	(CLST; GREK; LATN; CLST_Subs) at the 200 level
D.	18.0 units	from	(CLST; GREK; LATN; CLST_Subs) at the 100 level or above

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	It is recommended that courses numbered at the 100 level be taken early in the program (in first or second year).		

Plans of study for students who were admitted to a Classical Studies Plan after May 1, 2015

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 120.0 units (114.0 units for students admitted prior to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(12.0 units)		
A.	6.0 units	in	CLST 102/3.0 and CLST 103/3.0
B.	6.0 units	in	CLST 200/3.0 and CLST 201/3.0

2. Option	(30.0 units)		
A.	3.0 units	from	CLST at the 400 level
B.	9.0 units	from	(CLST; GREK; LATN; CLST_Sub) at the 300 or 400 level
C.	6.0 units	from	(CLST; GREK; LATN; CLST_Sub) at the 200 level
D.	12.0 units	from	(CLST; GREK; LATN; CLST_Sub) at the 100 level or above

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	It is recommended that courses numbered at the 100 level be taken early in the program (in first or second year).		

Plans of study for students who were admitted to a Classical Studies Plan after May 1, 2015

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	(0.0 units)		

2. Option	(30.0 units)		
A.	12.0 units	from	(CLST; GREK; LATN; CLST_Sub) at the 200 level or above
B.	18.0 units	from	CLST; GREK; LATN; CLST_Sub

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	It is recommended courses numbered at the 100 level be taken early in the program (in first or second year).		

Classical Studies Course List

The following list 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 Open Enrolment period, and then only if space permits.

CLST_Subs

Classical Studies Substitutions

ARTH 212/3.0; ARTH 214/3.0; ARTH 215/3.0; GPHY 341/3.0; HIST 215/3.0; HIST 218/3.0; *HIST 250/6.0*; HIST 332/3.0; LLCU 201/3.0; LLCU 210/3.0; PHIL 233/3.0; PHIL 328/3.0; RELS 212/3.0; RELS 228/3.0; RELS 321/3.0

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 History and Art Conservation, Film and Media, and Dan School of Drama and Music.

Plan: Consists of 45.0 core units and 39.0 units in one Sub-plan, as described below.

Program: The Plan, with sufficient electives to total 120.0 units (*114.0 units for students admitted prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(45.0 units)		
A.	6.0 units	in	CISC 121/3.0 and CISC 124/3.0
B.	3.0 units	from	CISC 102/3.0 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 at the 400 level
G.	3.0 units	from	<i>CISC P82/3.0</i> ; CISC; CISC_Subs at the 200 level or above

2. Sub-Plans	(39.0 units)		
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A. COMPUTING AND ART (COAR) (39.0 units)

i. Core	(6.0 units)		
a.	6.0 units	from	(ARTH 116/3.0 and ARTH 117/3.0) or ARTH 120/6.0
ii. Option	(33.0 units)		
a.	3.0 units	from	ARTH at the 400 level
b.	12.0 units	from	ARTH at the 300 level or above
c.	18.0 units	from	ARTH at the 100 or 200 level

B. COMPUTING AND DRAMA (CODR) (39.0 units)

i. Core	(21.0 units)		
a.	6.0 units	from	DRAM 100/6.0; DRAM 181/6.0; BISC 100/3.0; BISC 101/3.0
b.	9.0 units	in	DRAM 200/6.0 and DRAM 220/3.0
c.	6.0 units	from	DRAM 240/3.0; DRAM 241/3.0; DRAM 242/3.0
ii. Option	(18.0 units)		
a.	12.0 units	from	DRAM at the 300 level or above
b.	6.0 units	from	DRAM; DRAM_Subs

C. COMPUTING AND FILM (COFI) (39.0 units)

i. Core	(21.0 units)		
a.	6.0 units	from	FILM 110/6.0 or (FILM 104/3.0 and FILM 106/3.0) or (BISC 100/3.0 and FILM 104/3.0)
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; FILM 260/3.0
c.	6.0 units	in	FILM 250/6.0

ii. Option	(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

D. COMPUTING AND MUSIC (COMU) (39.0 units)

i. Core	(24.0 units)		
a.	3.0 units	in	MUSC 104/3.0
b.	9.0 units	in	MUSC 156/3.0 and MUSC 255/6.0
c.	9.0 units	from	MUSC 191/6.0; MUTH 110/3.0; MUTH 111/3.0
d.	3.0 units	from	MUSC 210/3.0; MUSC 211/3.0; <i>MUSC 203/3.0; MUSC 204/3.0; MUSC 205/3.0</i>

ii. Option	(15.0 units)		
a.	6.0 units	from	MUSC at the 300-level or above
b.	6.0 units	from	MUSC at the 200-level or above
c.	3.0 units	from	MUSC; MUSC_Subs

iii. Notes

a.	Students in this Sub-plan rank with MUSC Medial students for priority access to Music courses.
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3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	Those students with no programming experience should review first-year course choices based on the Section on <i>Introductory Courses</i> 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 Science.		
C.	Students who have completed a conservatory Advanced Rudiments exam or equivalent with a grade of 80% or higher may request to have a different MUSC course substituted for Core requirement 1.D.i.d. (MUSC 104/3.0)		

Computing and the Creative Arts Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

CISC_Subs

Courses in other departments usable as CISC options

COMM 365/3.0; ELEC 470/3.0; ELEC 471/3.0; ELEC 474/3.0; ELEC 476/3.0; ELEC 478/3.0; MATH 272/3.0; MATH 337/3.0; MATH 401/3.0; MATH 402/3.0; MATH 434/3.0; MATH 474/3.0.

DRAM_Subs

Drama Substitutions

CLST 312/3.0; DEVS 321/3.0; ENGL 256/6.0; ENGL 257/3.0; ENGL 258/3.0; ENGL 259/3.0; ENGL 326/6.0; ENGL 335/6.0; ENIN; *FREN 266/3.0*; FREN 305/3.0; FREN 306/3.0; GRMN 561/3.0; IDIS 210/3.0; IDIS 311/3.0; IDIS 410/3.0; ITLN 357/3.0; LLCU 200/6.0; LLCU 257/3.0; LLCU 301/3.0; LLCU 332/3.0; LLCU 339/3.0; *MUSC 287/3.0*; *MUSC 373/3.0*; MUTH; STSC 300/3.0; STSC 309/3.0; STSC 339/3.0; STSC 381/3.0.

COGS-P-BCH (Cognitive Science)

COGS-I-BCH (Cognitive Science with Professional Internship)

Subject: Administered by the School of Computing in cooperation with the Departments of Languages, Literatures and Cultures, 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	(51.0 units)		
A.	6.0 units	in	CISC 121/3.0 and CISC 124/3.0
B.	6.0 units	from	(CISC 102/3.0 and MATH 112/3.0) or (CISC 102/3.0 and 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	from	STAT 263/3.0 or STAT_Options
G.	3.0 units	in	CISC 352/3.0
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 or CISC 500/6.0

2. Option	(45.0 units)		
A.	30.0 units	from	two of Option Lists 2.A.i. ; 2.A.ii. ; 2.A.iii.
<i>i. Linguistics (15.0 units)</i>			
a.	6.0 units	in	LING 100/6.0
b.	3.0 units	from	LING 310/3.0; LING 320/3.0; LING 330/3.0
c.	3.0 units	in	LING 340/3.0
d.	3.0 units	in	LING 415/3.0
<i>ii. Philosophy (15.0 units)</i>			
a.	6.0 units	from	PHIL 111/6.0 or PHIL 115/6.0
b.	6.0 units	in	PHIL 250/6.0
c.	3.0 units	from	PHIL 154/3.0; PHIL 261/3.0; PHIL 270/3.0; PHIL 311/3.0; PHIL 351/3.0; PHIL 359/3.0; PHIL 381/3.0
<i>iii. Psychology (15.0 units)</i>			
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; PSYC 215/3.0; PSYC 271/3.0

			d.	3.0 units	from	COGS_Psychology at the 300 level or above.
B.	9.0 units	from	COGS_Computing			
C.	6.0 units	from	COGS_Computing; COGS_Linguistics; COGS_Philosophy; COGS_Psychology; NSCI_Options			

3. Supporting	(0.0 units)				

4. Additional Requirements					

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.(Hons.) 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 <i>Introductory Courses</i> 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.

Cognitive Science Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

COGS_Computing

Cognitive Science Computing Options

CISC 220/3.0; CISC 223/3.0; CISC 226/3.0; CISC 271/3.0; CISC 325/3.0; CISC 333/3.0; CISC 340/3.0; CISC 365/3.0; CISC 425/3.0; CISC 454/3.0; CISC 457/3.0; CISC 465/3.0; CISC 481/3.0; CISC 486/3.0; CISC 496/3.0; CISC 500/6.0; COGS 300/3.0

COGS_Linguistics

Cognitive Science Linguistics Options

LING 100/6.0; LING 310/3.0; LING 320/3.0; LING 330/3.0; LING 340/3.0; LING 415/3.0

COGS_Philosophy

Cognitive Science Philosophy Options

PHIL 111/6.0; PHIL 115/6.0; *PHIL 154/3.0*; PHIL 250/3.0; PHIL 260/3.0; PHIL 261/3.0; PHIL 270/3.0; PHIL 311/3.0; PHIL 351/3.0; PHIL 359/3.0; PHIL 381/3.0; PHIL 451/3.0; PHIL 452/3.0; PHIL 464/3.0

COGS_Psychology

Cognitive Science Psychology Options

PSYC 100/6.0; PSYC 203/3.0; PSYC 205/3.0; PSYC 215/3.0; PSYC 251/3.0; PSYC 271/3.0; *PSYC 300/6.0*; PSYC 305/6.0; PSYC 321/3.0; PSYC 323/3.0; PSYC 350/3.0; PSYC 352/3.0; PSYC 353/3.0; PSYC 355/3.0; PSYC 365/3.0; PSYC 370/3.0; PSYC 420/3.0; PSYC 422/3.0; PSYC 423/3.0; PSYC 442/3.0; PSYC 452/3.0; *PSYC 457/3.0*; PSYC 490/3.0

NSCI_Options

Neuroscience Options

NSCI 323/3.0; NSCI 324/3.0; NSCI 401/3.0

STAT_Options

Statistic Course Options

BIOL 243/3.0; CHEE 209/3.0; COMM 162/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0; NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0

Computing and Mathematics – Specialization (Computing) – Bachelor of Computing (Honours)

COMA-P-BCH (Computing and Mathematics)

COMA-I-BCH (Computing and Mathematics with Professional Internship)

Subject: Administered by the School of Computing and the Department of Mathematics and Statistics.

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 Computing (Honours) Degree.

1. Core	(72.0 units)		
<i>Computing</i>			
A.	6.0 units	in	CISC 121/3.0 and CISC 124/3.0
B.	18.0 units	in	CISC 203/3.0, CISC 204/3.0, CISC 221/3.0, CISC 223/3.0, CISC 235/3.0, CISC 260/3.0
C.	3.0 units	from	CISC 322/3.0 or CISC 326/3.0
D.	6.0 units	in	CISC 324/3.0 and CISC 365/3.0
E.	3.0 units	in	CISC 497/3.0
F.	3.0 units	in	CISC 499/3.0 or CISC 500/6.0
<i>Mathematics and Statistics</i>			
G.	6.0 units	from	MATH 110/6.0 or (MATH 111/6.0 and CISC 102/3.0)
H.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
I.	6.0 units	from	MATH 210/3.0; MATH 211/6.0; MATH 310/3.0; MATH 311/3.0; MATH 413/3.0; MATH 414/3.0
J.	3.0 units	from	MATH 225/3.0; MATH 231/3.0; <i>MATH 232/3.0</i>
K.	3.0 units	from	MATH 272/3.0 or CISC 271/3.0
L.	3.0 units	from	MATH 221/3.0 or MATH 280/3.0
M.	3.0 units	from	STAT 263/3.0 or STAT 269/3.0
N.	3.0 units	from	STAT 268/3.0 or STAT 351/3.0

2. Option	(12.0 units)		
A.	12.0 units	from	COMA_Options

3. Supporting	(0.0 units)		

4. Additional Requirements			

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.F. (CISC 499/3.0). In addition, the B.Cmp.(Hons.) 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 <i>Introductory Courses</i> at the start of the chapter on Computing.
B.	Students should select some of their option courses to be focused in a particular area; the following is a list of suggested areas: i. Communications and Coding: MATH 401/3.0; MATH 406/3.0; MATH 418/3.0; MATH 474/3.0; MATH 477/3.0 ii. Data Analysis: CISC 333/3.0; STAT 361/3.0; STAT 456/3.0; STAT 457/3.0; STAT 462/3.0; STAT 463/3.0; STAT 464/3.0; STAT 471/3.0; STAT 473/3.0; STAT 486/3.0 iii. Theory in Computer Science: CISC 422/3.0; CISC 462/3.0; CISC 465/3.0; MATH 401/3.0; MATH 402/3.0; MATH 418/3.0; <i>MATH 481/3.0</i> iv. Discrete Math and Optimization: CISC 466/3.0; MATH 337/3.0; MATH 401/3.0; MATH 402/3.0 v. Biomathematics and Biomedical Computing: BIOM 300/3.0; CISC 330/3.0; CISC 333/3.0; CISC 457/3.0; CISC 472/3.0; MATH 339/3.0
C.	Students may seek approval for a modified selection of courses for COMA_Options; a written rationale is required.
D.	Students interested in pursuing graduate studies in mathematics should take additional mathematics courses.
E.	Some CISC, MATH, STAT and BIOM option courses are offered only in alternate years. The courses to be offered each year are announced on the departmental websites before the course selection period, and students should refer to that information in planning their course selections.

Computing and Mathematics Course List

The following list 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 Open Enrolment period, and then only if space permits.

COMA_Options

Courses in other departments usable as COMA options

BIOM 300/3.0; CISC 330/3.0; CISC 333/3.0; CISC 457/3.0; CISC 422/3.0; CISC 462/3.0; CISC 465/3.0; CISC 466/3.0; CISC 467/3.0; CISC 472/3.0; CISC 500/6.0; MATH 337/3.0; MATH 339/3.0; MATH 401/3.0, MATH 402/3.0, MATH 406/3.0; MATH 413/3.0; MATH 414/3.0; MATH 418/3.0; MATH 474/3.0; MATH 477/3.0; *MATH 481/3.0*; STAT 361/3.0; STAT 456/3.0; STAT 457/3.0; STAT 462/3.0; STAT 463/3.0; STAT 464/3.0; STAT 471/3.0; STAT 473/3.0; STAT 486/3.0

Computing – Major (Computing) – Bachelor of Computing (Honours)

COMP-M-BCH (Computing)

COMP-I-BCH (Computing with Professional Internship)

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	(45.0 units)		
A.	6.0 units	in	CISC 121/3.0 and CISC 124/3.0
B.	3.0 units	from	STAT 263/3.0 or STAT_Options
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 and CISC 365/3.0
F.	3.0 units	in	CISC 497/3.0
G.	3.0 units	in	CISC 499/3.0 or CISC 500/6.0

2. Option	(15.0 units)		
<i>Theory of Computing</i>			
A.	3.0 units	from	CISC 422/3.0; CISC 462/3.0; CISC 465/3.0; CISC 466/3.0; CISC 467/3.0
<i>Applications</i>			
B.	12.0 units	from	one of Option List 2.B.i. or 2.B.ii.
<i>i. Option List 2.B.i.</i>			
a.	3.0 units	from	CISC 332/3.0; CISC 333/3.0; CISC 351/3.0; CISC 352/3.0
b.	9.0 units	from	CISC; CISC_Subs at the 400 level or above
<i>ii. Option List 2.B.ii.</i>			
a.	3.0 units	from	CISC 454/3.0 or CISC 457/3.0
b.	6.0 units	from	CISC; CISC_Subs at the 400 level
c.	3.0 units	from	CISC; CISC_Subs at the 200 level or above

3. Supporting	(12.0 units)		
A.	6.0 units	from	(CISC 102/3.0 and MATH 112/3.0) or (CISC 102/3.0 and MATH 111/6.0) or MATH 110/6.0
B.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)

4. Additional Requirements			

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.(Hons.) 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 <i>Introductory Courses</i> 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 Science.

Computing - Minor (Science)

COMP-Z

Subject: Administered by the School of Computing.

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.

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 will lead to a Bachelor of Computing Degree.

1. Core	(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	(9.0 units)		
A.	3.0 units	from	CISC; CISC_Subs; COCA; COGS at the 300 level or above
B.	6.0 units	from	CISC; CISC_Subs; COCA; COGS at the 200 level or above

3. Supporting	(12.0 units)		
A.	6.0 units	from	(CISC 102/3.0 and MATH 112/3.0) or (CISC 102/3.0 and MATH 111/6.0) or MATH 110/6.0
B.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	Those students with no programming experience should review first-year course choices based on the Section on <i>Introductory Courses</i> at the start of the chapter on Computing.		

Computing – Minor (Arts)

COMP-Y

Subject: Administered by the School of Computing.

Plan: Consists of 33.0 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 – General (Arts)

COMP-G-BA

Subject: Administered by the School of Computing.

Plan: Consists of 33.0 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	(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	(9.0 units)		
A.	3.0 units	from	CISC; CISC_Subs; COCA; COGS at the 300 level or above
B.	6.0 units	from	COGS 100/3.0; (CISC; CISC_Subs; COCA; COGS) at the 200 level or above

3. Supporting	(3.0 units)		
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A.	3.0 units	from	CISC 102/3.0 or MATH 110/6.0
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4. Additional Requirements			

5. Substitutions	

6. Notes	
A.	Those students with no programming experience should review first-year course choices based on the Section on <i>Introductory Courses</i> 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 Course List

The following list 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 Open Enrolment period, and then only if space permits.

CISC_Subs

Courses in other departments usable as CISC options

COMM 365/3.0; ELEC 470/3.0; ELEC 471/3.0; ELEC 476/3.0; ELEC 478/3.0; MATH 272/3.0; MATH 337/3.0; MATH 401/3.0; MATH 402/3.0; MATH 434/3.0; MATH 474/3.0.

STAT_Options

Statistic Course Options

BIOL 243/3.0; CHEE 209/3.0; COMM 162/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0; NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0

Computer Science – Specialization (Computing) – Bachelor of Computing (Honours)

CSCI-P-BCH (Computer Science)

CSCI-I-BCH (Computer Science with Professional Internship)

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	(60.0 units)		
A.	6.0 units	in	CISC 121/3.0 and CISC 124/3.0
B.	6.0 units	from	(CISC 102/3.0 and MATH 112/3.0) or (CISC 102/3.0 and MATH 111/6.0) or MATH 110/6.0
C.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
D.	3.0 units	from	STAT 263/3.0 or STAT_Options
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 or CISC 500/6.0

2. Option	(45.0 units)		
<i>Theory of Computing</i>			
A.	3.0 units	from	CISC 422/3.0; CISC 462/3.0; CISC 465/3.0; CISC 466/3.0; CISC 467/3.0
<i>Applications</i>			
B.	12.0 units	from	One of Option List 2.A.i. or 2.A.ii.
<i>i. Option List 2.A.i.</i>			
a.	3.0 units	from	CISC 332/3.0; CISC 333/3.0; CISC 351/3.0; CISC 352/3.0
b.	9.0 units	from	CISC; CISC_Subs at the 400 level
<i>ii. Option List 2.A.ii.</i>			
a.	3.0 units	from	CISC 454/3.0 or CISC 457/3.0
b.	6.0 units	from	CISC; CISC_Subs at the 400 level
c.	3.0 units	from	CISC; CISC_Subs at the 200 level or above
<i>Complementary Courses</i>			
C.	9.0 units	from	ASC_Humanities_Languages_Social_Sciences
D.	21.0 units	from	any discipline other than CISC, COCA, COGS, MATH, STAT, APSC, ELEC

3. Supporting	(0.0 units)		

4. Additional Requirements			

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.(Hons.) 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 <i>Introductory Courses</i> 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.

Computing and Information Science Course List

The following list 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 Open Enrolment period, and then only if space permits.

CISC_Subs

Courses in other departments usable as CISC options

COMM 365/3.0; ELEC 470/3.0; ELEC 471/3.0; ELEC 474/3.0; ELEC 476/3.0; ELEC 478/3.0; MATH 272/3.0; MATH 337/3.0; MATH 401/3.0; MATH 402/3.0; MATH 434/3.0; MATH 474/3.0.

STAT_Options

Statistic Course Options

BIOL 243/3.0; CHEE 209/3.0; COMM 162/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0; NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0

ASC_Humanities_Languages_Social_Sciences

Humanities, Languages, and Social Sciences Courses

ARTF; ARTH;

BISC;

BMED 373/3.0;

CLST; COCA; CWRI;

DEVS; DRAM;

ECON; EMPR; ENGL; ENGX; ENIN; ENSC;

FILM; FRST;

GLPH 271/3.0; GLPH 471/3.0;

GNDS; GPHY_Human;

HIST;

HLTH 101/3.0; HLTH 102/3.0; HLTH 200/3.0; HLTH 205/3.0; HLTH 235/3.0; HLTH 237/3.0; HLTH 252/3.0; HLTH 270/3.0; HLTH 300/3.0; HLTH 305/3.0; HLTH 315/3.0; HLTH 323/3.0; HLTH 332/3.0; HLTH 333/3.0; HLTH 334/3.0; HLTH 350/3.0; HLTH 352/3.0; HLTH 397/3.0; HLTH 401/3.0; HLTH 402/3.0; HLTH 403/3.0; HLTH 404/3.0; HLTH 415/3.0; HLTH 430/3.0; HLTH 434/3.0; HLTH 435/3.0; HLTH 445/3.0; HLTH 455/3.0; HLTH 456/3.0; HLTH 491/3.0; HLTH 493/3.0; HLTH 495/3.0; HLTH 497/3.0; HLTH 595/6.0;

IDIS; INTS;

JWST;

KINE; KNPE 253/3.0; KNPE 337/3.0; KNPE 353/3.0; KNPE 363/3.0; KNPE 365/3.0; KNPE 367/3.0; KNPE 397/3.0; KNPE 463/3.0; KNPE 465/3.0; KNPE 473/3.0;

LANG; LANG_Languages; LIBS; LING; LLCU;

MUSC; MUTH;

PACT; PHED; PHIL; POLS; PPEC;

PSYC 100/6.0; PSYC 101/3.0; PSYC 102/3.0; PSYC 231/3.0; PSYC 241/3.0; PSYC 235/6.0; PSYC 236/3.0; PSYC 251/3.0; PSYC_Cluster_B;

RELS;

SOCY; STSC;

WRIT

(Note that the GPHY, LANG and PSYC course lists noted here may be found in the Degree Plans and Course Lists section of this *Calendar*.)

**Plans of study for students who were admitted to a Global Development Studies Plan prior to May 1, 2018
(for students who are under the degree requirement of 114 units BAH)**

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	(30.0 units)		
A.	6.0 units	in	DEVS 100/6.0
B.	6.0 units	in	DEVS 230/3.0 and DEVS 240/3.0
C.	6.0 units	in	DEVS 300/3.0 and DEVS 340/3.0
D.	6.0 units	from	DEVS 492-499/3.0
E.	6.0 units	from	DEVS_Languages

2. Option	(30.0 units)		
A.	12.0 units	from	DEVS; DEVS_Eligible at the 300 level and above.
B.	18.0 units	from	DEVS; DEVS_Eligible at the 200 level and above.

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	Note that non-DEVS courses from the DEVS_Eligible and DEVS_Languages 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	(21.0 units)		
A.	6.0 units	in	DEVS 100/6.0
B.	6.0 units	in	DEVS 230/3.0 and 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_Languages

2. Option	(21.0 units)		
A.	6.0 units	from	DEVS; DEVS_Eligible at the 300 level and above.
B.	15.0 units	from	DEVS; DEVS_Eligible at the 200 level and above.

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	Note that non-DEVS courses from the DEVS_Eligible and DEVS_Languages 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	(12.0 units)		
A.	6.0 units	in	DEVS 100/6.0
B.	6.0 units	in	DEVS 230/3.0 and DEVS 240/3.0

2. Option	(18.0 units)		
A.	18.0 units	from	DEVS; DEVS_Eligible at the 200 level and above.

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	Non-DEVS courses from the DEVS_Eligible and DEVS_Languages course lists are offered through other departments and may be subject to availability; DEVS students may not have enrolment priority.		

Plans of study for students who were admitted to a Global Development Studies Plan after May 1, 2018**Global Development Studies – Major (Arts) – Bachelor of Arts (Honours)****DEVS-M-BAH**

Subject: Administered by the Department of Global Development Studies.

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 120.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(24.0 units)		
A.	6.0 units	in	DEVS 100/6.0
B.	6.0 units	in	DEVS 230/3.0 and DEVS 240/3.0
C.	6.0 units	in	DEVS 300/3.0 and DEVS 340/3.0
D.	6.0 units	from	DEVS 492-499/3.0

2. Option	(36.0 units)		
A.	6.0 units	from	DEVS at the 300 level or above
B.	12.0 units	from	DEVS; DEVS_Eligible at the 300 level or above
C.	9.0 units	from	DEVS at the 200 level or above
D.	9.0 units	from	DEVS; DEVS_Eligible at the 200 level or above

3. Supporting	(6.0 units)		
A.	6.0 units	from	DEVS_Languages

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	Note that non-DEVS courses from the DEVS_Eligible and DEVS_Languages course lists are offered through other departments and may be subject to availability; DEVS students may not have enrolment priority.		

DEVS[----]-A or [----]DEVS-A (where [----] is a second subject of study)

Subject: Administered by the Department of Global Development Studies.

Plan: Consists of 45.0 units as described below.

Program: The Plan, in combination with a Medial Plan in another subject, and with sufficient electives to total 120.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(18.0 units)		
A.	6.0 units	in	DEVS 100/6.0
B.	6.0 units	in	DEVS 230/3.0 and DEVS 240/3.0
C.	3.0 units	in	DEVS 340/3.0
D.	3.0 units	from	DEVS 492-499/3.0

2. Option	(24.0 units)		
A.	6.0 units	from	DEVS at the 300 level or above
B.	3.0 units	from	DEVS; DEVS_Eligible at the 300 level or above
C.	6.0 units	from	DEVS at the 200 level or above
D.	9.0 units	from	DEVS; DEVS_Eligible at the 200 level or above

3. Supporting	(3.0 units)		
A.	3.0 units	from	DEVS_Languages

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	Note that non-DEVS courses from the DEVS_Eligible and DEVS_Languages 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	(12.0 units)		
A.	6.0 units	in	DEVS 100/6.0
B.	6.0 units	in	DEVS 230/3.0 and DEVS 240/3.0

2. Option	(18.0 units)		
A.	12.0 units	from	DEVS at the 200 level or above
B.	6.0 units	from	DEVS; DEVS_Eligible at the 200 level or above

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	Non-DEVS courses from the DEVS_Eligible and DEVS_Languages course lists are offered through other departments and may be subject to availability; DEVS students may not have enrolment priority.		

Global Development Studies Course Lists

The following lists contain courses offered through other Departments. Most courses have more than thematic or regional connection to Global Development Studies. Students are encouraged to consult course outlines and course descriptions for more information. 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 be made available during the Open Enrolment period, and then only if space permits.

DEVS_Eligible

Courses Eligible for Global Development Studies Plans

ARTH260/3.0	ENGL 217/3.0	FREN 285/3.0	HIST 200/3.0	HLTH 350/3.0	PHIL 307/3.0	RELS 212/3.0
ARTH 272/3.0	ENGL 259/3.0	FREN 351/3.0	HIST 207/3.0		PHIL 310/3.0	RELS 222/3.0
ARTH 348/3.0	<i>ENGL 282/6.0</i>	<i>FREN 451/3.0</i>	HIST 214/3.0	IDIS 302/3.0	PHIL 324/3.0	RELS 223/3.0
ARTH 372/3.0	ENGL 382/6.0	<i>FREN 477/3.0</i>	HIST 252/3.0	<i>IDIS 307/3.0</i>		RELS 224/3.0
ARTH 383/3.0	ENGL 476/3.0		HIST 258/3.0	INDG 301/3.0	POLS 241/3.0	RELS 226/3.0
		GLPH 271/3.0				
ARTH 420/3.0	ENGL 477/3.0		HIST 267/3.0		POLS 242/3.0	RELS 227/3.0
		GNDS 211/3.0				
ARTH 434/3.0	ENGL 481/3.0	GNDS 212/3.0	HIST 270/3.0	INTS 321/3.0	POLS 261/3.0	RELS 229/3.0
ARTH 472/3.0	ENGL 482/3.0	GNDS 311/3.0	HIST 273/3.0	LAW 202/3.0	POLS 262/3.0	RELS 322/3.0
		GNDS 312/3.0	HIST 285/3.0		POLS 320/3.0	<i>RELS 324/3.0</i>
<i>BMED 271/3.0</i>	<i>ENSC 203/3.0</i>	GNDS 320/3.0	HIST 286/3.0	LLCU 205/3.0	POLS 341/3.0	RELS 326/3.0
CLST 309/3.0	ENSC 290/3.0	GNDS 330/3.0	HIST 288/3.0	LLCU 206/3.0	POLS 342/3.0	<i>RELS 392/3.0</i>
COMM 407/3.0	ENSC 305/3.0	GNDS 340/3.0	HIST 294/3.0	LLCU 209/3.0	POLS 346/3.0	RELS 393/3.0
	ENSC 315/3.0	GNDS 352/3.0	HIST 296/3.0	LLCU 244/3.0	POLS 347/3.0	RELS 394/3.0
DRAM 303/3.0	ENSC 321/3.0	GNDS 365/3.0	HIST 298/3.0	LLCU 248/3.0	POLS 348/3.0	RELS 396/3.0
	ENSC 390/3.0	GNDS 375/5.0	HIST 299/3.0	LLCU 249/3.0	POLS 358/3.0	
ECON 239/3.0	ENSC 407/3.0	GNDS 401/6.0	HIST 310/6.0	LLCU 270/3.0	POLS 361/3.0	SOCY 225/3.0
ECON 244/3.0	ENSC 420/3.0	GNDS 432/3.0	HIST 318/6.0	LLCU 301/3.0	POLS 364/3.0	SOCY 235/3.0
ECON 280/3.0	<i>ENSC 490/3.0</i>	GNDS 465/6.0	HIST 333/4.5	LLCU 302/3.0	POLS 366/3.0	
ECON 290/3.0			HIST 334/4.5	LLCU 316/3.0	POLS 395/3.0	SPAN 306/3.0
ECON 325/3.0	FILM 303/3.0	GPHY 228/3.0	HIST 337/4.5	LLCU 322/3.0	POLS 440/3.0	SPAN 351/3.0
ECON 390/3.0	FILM 310/3.0	GPHY 254/3.0	HIST 344/4.5	LLCU 326/3.0	POLS 442/3.0	SPAN 352/3.0
ECON 425/3.0		<i>GPHY 255/3.0</i>	<i>HIST 366/3.0</i>	LLCU 328/3.0	POLS 443/3.0	SPAN 354/3.0
ECON 426/3.0		GPHY 257/3.0	HIST 410/9.0	LLCU 354/3.0	POLS 445/3.0	SPAN 428/3.0
ECON 435/3.0		GPHY 258/3.0	HIST 425/9.0	LLCU 358/3.0	POLS 457/3.0	<i>SPAN 456/3.0</i>
		GPHY 327/3.0	HIST 442/4.5	LLCU 370/3.0	POLS 461/3.0	SPAN 458/3.0
		GPHY 332/3.0	HIST 446/4.5	LLCU 432/6.0	POLS 466/3.0	SPAN 495/3.0
		GPHY 351/3.0	<i>HIST 452/6.0</i>	<i>LLCU 495/3.0</i>	POLS 467/3.0	<i>SPAN 460/3.0</i>
		GPHY 362/3.0	HIST 460/9.0		POLS 468/3.0	SPAN 496/3.0
		GPHY 365/3.0	HIST 461/4.5	MUSC 289/3.0	POLS 471/3.0	
		GPHY 368/3.0	HIST 462/4.5	<i>MUSC 386/3.0</i>	POLS 484/3.0	
			HIST 467/9.0	MUSC 486/3.0		
			HIST 470/4.5			
			HIST 479/9.0			
			HIST 498/4.5			
			HIST 499/4.5			

DEVS_Languages

Languages Courses Eligible for Global Development Studies Plans

ANSH 101/3.0	FREN 304/3.0	<i>FREN 444/3.0</i>		<i>LANG P10/3.0</i>	
ANSH 102/3.0	FREN 305/3.0	FREN 450/3.0	<i>ITLN 101/6.0</i>	<i>LANG P11/3.0</i>	
	FREN 306/3.0	<i>FREN 451/3.0</i>	ITLN 111/3.0	LANG 101/3.0	
ARAB 100/6.0	FREN 315/3.0	<i>FREN 463/3.0</i>		LANG 102/3.0	
ARAB 200/6.0	FREN 320/3.0	<i>FREN 473/3.0</i>	ITLN 112/3.0	<i>LANG 120/3.0</i>	SPAN 111/3.0
	FREN 323/3.0	<i>FREN 487/3.0</i>		<i>LANG 121/3.0</i>	SPAN 112/3.0
CHIN 100/6.0	FREN 324/3.0	<i>FREN 488/3.0</i>	ITLN 204/3.0	LANG 201/3.0	<i>SPAN 201/6.0</i>
CHIN 200/6.0	FREN 325/3.0	<i>FREN 491/3.0</i>		LANG 202/3.0	SPAN 204/3.0
CHIN 300/6.0	FREN 327/3.0	<i>FREN 493/3.0</i>	ITLN 205/3.0		SPAN 205/3.0
	FREN 330/3.0	<i>FREN 496/3.0</i>	<i>ITLN 230/6.0</i>	MOHK 101/3.0	SPAN 206/3.0
<i>FREN P10/6.0</i>	FREN 331/3.0	FREN 498/3.0		MOHK 102/3.0	<i>SPAN 251/6.0</i>
<i>FREN P11/3.0</i>	<i>FREN 334/3.0</i>	FREN 499/3.0	ITLN 326/3.0		<i>SPAN 261/6.0</i>
<i>FREN P12/3.0</i>	FREN 335/3.0		ITLN 331/3.0		SPAN 301/3.0
<i>FREN P16/3.0</i>	FREN 342/3.0	GRMN 101/3.0	ITLN 332/3.0		SPAN 302/3.0
<i>FREN P17/3.0</i>	FREN 343/3.0	GRMN 102/3.0	<i>ITLN 363/3.0</i>		SPAN 303/3.0
<i>FREN 100/6.0</i>	<i>FREN 344/3.0</i>	GRMN 201/3.0			SPAN 304/3.0
<i>FREN 101/3.0</i>	FREN 351/3.0	GRMN 202/3.0	JAPN 100/6.0	PORT 103/3.0	SPAN 306/3.0
<i>FREN 102/3.0</i>	FREN 353/3.0	GRMN 203/3.0	JAPN 200/6.0	PORT 104/3.0	SPAN 344/3.0
FREN 106/3.0	FREN 363/3.0	GRMN 306/3.0	<i>JAPN 300/6.0</i>		SPAN 351/3.0
FREN 107/3.0	FREN 373/3.0	GRMN 307/3.0	JAPN 301/3.0		SPAN 352/3.0
<i>FREN 110/6.0</i>	<i>FREN 384/3.0</i>	GRMN 308/3.0	JAPN 302/3.0		SPAN 354/3.0
FREN 111/3.0	FREN 387/3.0	GRMN 309/3.0			SPAN 380/3.0
FREN 112/3.0	FREN 388/3.0	<i>GRMN 310/3.0</i>			SPAN 381/3.0
FREN 118/3.0	FREN 390/3.0	GRMN 311/3.0			SPAN 401/3.0
FREN 150/6.0	FREN 391/3.0	GRMN 312/3.0			SPAN 402/3.0
<i>FREN 201/3.0</i>	FREN 393/3.0	GRMN 317/3.0			SPAN 406/3.0
<i>FREN 202/3.0</i>	FREN 394/4.0				<i>SPAN 460/3.0</i>
<i>FREN 212/6.0</i>	FREN 395/3.0	HEBR 190/6.0			SPAN 495/3.0
FREN 215/6.0	<i>FREN 404/3.0</i>	HEBR 294/3.0			SPAN 496/3.0
FREN 219/3.0	<i>FREN 405/3.0</i>	HEBR 295/3.0			
<i>FREN 220/6.0</i>	<i>FREN 417/3.0</i>	HEBR 301/3.0			
<i>FREN 221/6.0</i>	<i>FREN 424/3.0</i>	HEBR 393/3.0			
FREN 227/3.0	<i>FREN 425/3.0</i>	HEBR 502/3.0			
FREN 230/3.0	<i>FREN 427/3.0</i>				
FREN 241/3.0	<i>FREN 433/3.0</i>	INUK 101/3.0			
FREN 250/3.0	<i>FREN 434/3.0</i>	INUK 102/3.0			
<i>FREN 266/3.0</i>	<i>FREN 435/3.0</i>				
FREN 283/3.0					
FREN 285/3.0					

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Drama – Major (Arts) – Bachelor of Arts (Honours)

DRAM-M-BAH

Subject: Administered by Dan School of Drama and 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 120.0 units (114.0 units for students admitted *prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core		(27.0 units)	
A.	6.0 units	from	DRAM 100/6.0; DRAM 181/6.0; BISC 100/3.0; BISC 101/3.0
B.	15.0 units	from	DRAM 200/6.0; DRAM 220/3.0; DRAM 240/3.0; DRAM 246/1.5; DRAM 247/1.5; <i>DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0</i>
C.	6.0 units	in	DRAM 300/6.0

2. Option		(33.0 units)	
A.	9.0 units	from	DRAM or MUTH at the 400 level or above
A.	9.0 units	from	DRAM at the 300 level
B.	15.0 units	from	DRAM; STSC; MUTH; DRAM_ Subs

3. Supporting		(0.0 units)	

4. Additional Requirements	
A.	Maximum 12.0 units from DRAM_ Subs
B.	Maximum 6.0 units from DRAM 100/6.0; DRAM 181/6.0; BISC 100/3.0; BISC 101/3.0

5. Substitutions	

6. Notes	

Drama – Medial (Arts) – Bachelor of Arts (Honours)

DRAM[----]-A or [----]DRAM-A (where [----] is a second subject of study)

Subject: Administered by Dan School of Drama and 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 120.0 units (114.0 units for students admitted *prior* to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(27.0 units)		
A.	6.0 units	from	DRAM 100/6.0; DRAM 181/6.0; BISC 100/3.0; BISC 101/3.0
B.	15.0 units	from	DRAM 200/6.0; DRAM 220/3.0; DRAM 240/3.0; DRAM 246/1.5; DRAM 247/1.5; <i>DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0</i>
C.	6.0 units	in	DRAM 300/6.0

2. Option	(15.0 units)		
A.	9.0 units	from	DRAM at the 300 level
B.	6.0 units	from	DRAM; STSC; MUTH; DRAM_Sub

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Maximum 6.0 units from DRAM_Sub		
B.	Maximum 6.0 units from DRAM 100/6.0; DRAM 181/6.0; BISC 100/3.0; BISC 101/3.0		

5. Substitutions			

6. Notes			

Plans of study for students who were admitted to a Drama Minor Plan prior to May 1, 2016

Drama – Minor (Arts)

DRAM-Y

Subject: Administered by the School of Drama and 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.

Drama – General (Arts) – Bachelor of Arts

DRAM-G-BA

Subject: Administered by the School of Drama and 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	(6.0 units)		
A.	6.0 units	from	DRAM 100/6.0; DRAM 181/6.0; BISC 100/3.0; BISC 101/3.0

2. Option	(24.0 units)		
A.	24.0 units	from	DRAM; IDIS 210/3.0; DRAM_Sub

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Maximum 6.0 units from DRAM_Sub		
B.	Maximum 6.0 units from DRAM 100/6.0; DRAM 181/6.0; BISC 100/3.0; BISC 101/3.0		

5. Substitutions			

6. Notes			
A.	Minors are not required to take 300- or 400-level courses.		

Plans of study for students who were admitted to a Drama Minor Plan after May 1, 2016

Drama – Minor (Arts)

DRAM-Y

Subject: Administered by the School of Drama and 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.

Drama – General (Arts) – Bachelor of Arts

DRAM-G-BA

Subject: Administered by the School of Drama and 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	(12.0 units)		
A.	6.0 units	from	DRAM 100/6.0; DRAM 181/6.0; BISC 100/3.0; BISC 101/3.0
B.	6.0 units	in	DRAM 200/6.0

2. Option	(18.0 units)		
A.	18.0 units	from	DRAM; MUTH; DRAM_Subs

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Maximum 6.0 units from DRAM_Subs		
B.	Maximum 6.0 units from DRAM 100/6.0; DRAM 181/6.0; BISC 100/3.0; BISC 101/3.0		

5. Substitutions			

6. Notes			
A.	Minors are not required to take 300- or 400-level courses.		

Drama Course List

The following list 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 Open Enrolment period, and then only if space permits.

DRAM_Sub

Drama Substitutions

CLST 312/3.0; DEVS 321/3.0; ENGL 256/6.0; ENGL 257/3.0; ENGL 258/3.0; ENGL 259/3.0; ENGL 326/6.0; ENGL 335/6.0; ENIN; *FREN 266/3.0*; FREN 305/3.0; FREN 306/3.0; GRMN 561/3.0; IDIS 210/3.0; IDIS 311/3.0; IDIS 410/3.0; ITLN 357/3.0; LLCU 200/6.0; LLCU 257/3.0; LLCU 301/3.0; LLCU 332/3.0; LLCU 339/3.0; *MUSC 287/3.0*; *MUSC 373/3.0*; MUTH; STSC 300/3.0; STSC 309/3.0; STSC 339/3.0; STSC 381/3.0.

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 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	(57.0 units)		
<i>Core Science</i>			
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
C.	6.0 units	in	GPHY 101/3.0 and GPHY 102/3.0
D.	3.0 units	from	GEOL 104/3.0 or GEOL 107/3.0
E.	6.0 units	from	MATH 111/6.0; MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
<i>Environmental Biology Core</i>			
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 or STAT 269/3.0)
G.	3.0 units	from	BCHM 310/9.0; BIOL 334/3.0; BIOL 339/3.0; BIOL 341/3.0
H.	3.0 units	from	BIOL 300/3.0 or <i>BIOL 302/3.0</i> or <i>BIOL 303/3.0</i>
I.	3.0 units	from	BCHM 218/3.0 or BIOL 330/3.0
<i>Core Social Sciences and Humanities</i>			
J.	3.0 units	from	ENSC 103/3.0 or <i>ENSC 203/3.0</i>
K.	3.0 units	in	ENSC 390/3.0

2. Option	(45.0 units)		
A.	3.0 units	from	GEOL
B.	3.0 units	from	ENSC_Specialization_Options_B
C.	3.0 units	from	ENSC_Interdisciplinary_SocSci/Huma
D.	3.0 units	from	ENSC_Interdisciplinary_Humanities
E.	6.0 units	from	BIOL 334/3.0; CHEM at the 200 level or above; ENSC 471/3.0
F.	27.0 units	from	Option List 2.E.i. or 2.E.ii. (27.0 units)

i. Environmental Biology Research Thesis Option

a.	12.0 units	From	BIOL 537/12.0 or ENSC 502/12.0
b.	6.0 units	from	BIOL at the 300 level or above; ENSC_Specialization_Options_B; BIOL_Sub_B
c..	9.0 units	from	BIOL at the 300-level or above

<i>ii. Environmental Biology Non-thesis Option (27.0 units)</i>			
<i>a.</i>	6.0 units	from	ENSC 430/6.0 or ENSC 501/6.0
<i>b.</i>	12.0 units	from	BIOL at the 300 level or above; ENSC_Specialization_Options_B
<i>c.</i>	9.0 units	from	BIOL at the 300 level or above

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions	
A.	ENSC 502/12.0 may be substituted for requirement 2.F.ii.a. and a further 6.0 units in electives and/or Plan requirements as approved by the Chair of Undergraduate Studies.
B.	BCHM 310/9.0 (or the combination of BCHM 315/3.0 and BCHM 316/3.0) may be substituted for 3.0 units from (BIOL 334/3.0 or BIOL 339/3.0 or BIOL 341/3.0) with the remaining 6.0 units applied toward Option Course requirements in the degree program.

6. Notes	

Environmental Biology Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

BIOL_Subsub_B

Biology Substitutions List B

CHEE 400/6.0;

CHEM at the 200 level and above;

ENSC 301/3.0; ENSC 307/3.0; ENSC 320/3.0; ENSC 390/3.0; ENSC 425/3.0; ENSC 471/3.0;

EPID 301/3.0;

GEOL 337/3.0; GEOL 466/3.0;

GPHY 304/3.0; GPHY 306/3.0; GPHY 314/3.0; GPHY 318/3.0; GPHY 339/3.0;

PHAR 340/3.0;

PHIL 301/3.0;

PSYC 235/6.0; PSYC 236/3.0; PSYC 271/3.0; PSYC 370/3.0; PSYC 371/3.0, PSYC 470/3.0

STAT 353/3.0

ENSC_Specialization_Options_B

Options in the Environmental Science Specialization Plans, List B

BIOL 335/3.0; ENSC 307/3.0; ENSC 201/3.0; ENSC 301/3.0; ENSC 320/3.0; ENSC 407/3.0; ENSC 425/3.0; ENSC 471/3.0; ENSC 480/3.0; ENSC 481/3.0; GEOL 106/3.0; GEOL 107/3.0; GEOL 200/3.0; GPHY 207/3.0; GPHY 209/3.0; GPHY 304/3.0; GPHY 306/3.0; GPHY 312/3.0; GPHY 314/3.0; GPHY 317/3.0; GPHY 318/3.0; GPHY 319/3.0; *GPHY 418/3.0*

ENSC_Interdisciplinary_Humanities

Environmental Science/Studies Interdisciplinary Humanities Options

CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

ENSC_Interdisciplinary_SocSci/Huma

Environmental Science/Studies Interdisciplinary Social Science and Humanities Options

CHEE 342/3.0; CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; DEVS 250/3.0; ECON 290/3.0; ENSC 200/3.0; ENSC 290/3.0; ENSC 301/3.0; ENSC 305/3.0; ENSC 307/3.0; ENSC 310/3.0; ENSC 311/3.0; ENSC 315/3.0; ENSC 320/3.0; ENSC 321/3.0; ENSC 391/3.0; ENSC 407/3.0; ENSC 420/3.0; ENSC 482/3.0; ENSC 483/3.0; *ENSC 490/3.0*; GPHY 336/3.0; GPHY 339/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

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	(87.0 units)		
<i>Core Science</i>			
A.	3.0 units	from	BIOL 111/3.0 or BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
C.	6.0 units	in	GPHY 101/3.0 and GPHY 102/3.0
D.	3.0 units	from	GEOL 104/3.0 or GEOL 107/3.0
E.	6.0 units	from	MATH 111/6.0; MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
<i>Environmental Chemistry Core</i>			
F.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0
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
<i>Core Social Sciences and Humanities</i>			
L.	3.0 units	from	ENSC 103/3.0 or ENSC 203/3.0
M.	3.0 units	in	ENSC 390/3.0
N.	6.0 units	from	ENSC 430/6.0 or ENSC 501/6.0
2. Option	(15.0 units)		
A.	3.0 units	from	ENSC_Specialization_Options_A
B.	3.0 units	from	GEOL
C.	3.0 units	from	BIOL 201/3.0; BIOL 202/3.0; ENSC_Specialization_Options_B
D.	3.0 units	from	ENSC_Interdisciplinary_SocSci/Huma
E.	3.0 units	from	ENSC_Interdisciplinary_Humanities
3. Supporting	(0.0 units)		
4. Additional Requirements			
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			

Environmental Chemistry Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

ENSC_Interdisciplinary_Humanities

Environmental Science/Studies Interdisciplinary Humanities Options

CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

ENSC_Interdisciplinary_SocSci/Huma

Environmental Science/Studies Interdisciplinary Social Science and Humanities Options

CHEE 342/3.0; CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; DEVS 250/3.0; ECON 290/3.0; ENSC 200/3.0; ENSC 290/3.0; ENSC 301/3.0; ENSC 305/3.0; ENSC 307/3.0; ENSC 310/3.0; ENSC 311/3.0; ENSC 315/3.0; ENSC 320/3.0; ENSC 321/3.0; ENSC 391/3.0; ENSC 407/3.0; ENSC 420/3.0; ENSC 482/3.0; ENSC 483/3.0; *ENSC 490/3.0*; GPHY 336/3.0; GPHY 339/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

ENSC_Specialization_Options_A

Options in the Environmental Science Specialization Plans, List A

BIOL 102/3.0; BIOL 103/3.0; BIOL 335/3.0; ENSC 301/3.0; ENSC 320/3.0; GPHY 318/3.0

ENSC_Specialization_Options_B

Options in the Environmental Science Specialization Plans, List B

BIOL 335/3.0; ENSC 307/3.0; ENSC 201/3.0; ENSC 301/3.0; ENSC 320/3.0; ENSC 407/3.0; ENSC 425/3.0; ENSC 471/3.0; ENSC 480/3.0; ENSC 481/3.0; GEOL 106/3.0; GEOL 107/3.0; GEOL 200/3.0; GPHY 207/3.0; GPHY 209/3.0; GPHY 304/3.0; GPHY 306/3.0; GPHY 312/3.0; GPHY 314/3.0; GPHY 317/3.0; GPHY 318/3.0; GPHY 319/3.0; *GPHY 418/3.0*

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 120.0 units (114.0 units for students admitted prior to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(27.0 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 255/3.0
C.	3.0 units	from	ECON 250/3.0 or STAT 263/3.0
D.	9.0 units	in	ECON 310/3.0, ECON 320/3.0, ECON 351/3.0

2. Option	(33.0 units)		
A.	15.0 units	from	Option List 2.A.i. or 2.A.ii.
			<i>i. Seminar Option (15.0 units)</i>
			<i>a.</i> 3.0 units from ECON 480/3.0-499/3.0
			<i>b.</i> 12.0 units from ECON at the 400 level
			<i>ii. Thesis Option (15.0 units)</i>
			<i>a.</i> 6.0 units in ECON 590/6.0
			<i>b.</i> 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.	6.0 units	from	ECON at any level
D.	6.0 units	from	ECON at any level; COMM 211/3.0; COMM 221/3.0; PPEC 200/3.0

3. Supporting	(6.0 units)		
A.	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

4. Additional Requirements			

5. Substitutions			

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 120.0 units (114.0 units for students admitted prior to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(18.0 units)		
A.	6.0 units	from	ECON 110/6.0 or (ECON 111/3.0 and ECON 112/3.0)
B.	6.0 units	in	ECON 212/3.0 and ECON 222/3.0
C.	3.0 units	from	ECON 250/3.0 or STAT 263/3.0
D.	3.0 units	from	ECON 310/3.0; ECON 320/3.0; ECON 351/3.0

2. Option	(24.0 units)		
A.	3.0 units	from	ECON 480/3.0-499/3.0
B.	6.0 units	from	ECON at the 300 level or above
C.	12.0 units	from	ECON at any level
D.	3.0 units	from	ECON at any level; COMM 211/3.0; COMM 221/3.0; PPEC 200/3.0

3. Supporting	(6.0 units)		
A.	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

4. Additional Requirements			

5. Substitutions			

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	(15.0 units)		
A.	6.0 units	from	ECON 110/6.0 or (ECON 111/3.0 and ECON 112/3.0)
B.	6.0 units	in	ECON 212/3.0 and ECON 222/3.0
C.	3.0 units	from	ECON 250/3.0 or STAT 263/3.0

2. Option	(15.0 units)		
A.	12.0 units	from	ECON at any level
B.	3.0 units	from	ECON at any level; COMM 211/3.0; COMM 221/3.0; PPEC 200/3.0

3. Supporting	(6.0 units)		
A.	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

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.			For Dual Degree students: 3.0 units from STAT 267/3.0 or STAT 367/3.0 or COMM 162/3.0 may be used in place of ECON 250/3.0 or STAT 263/3.0.
B.			For Dual Degree students: 7.0 units from (APSC 171/3.5 and APSC 172/3.5) may be used in place of: MATH 120/6.0 or MATH 121/6.0 or (MATH 123/3.0 and MATH 124/3.0) or MATH 126/6.0.

Environmental Geology – Specialization (Science) – Bachelor of Science (Honours)

EGEO-P-BSH

Subject: Administered by the School of Environmental Studies in partnership with the Department of Geological Sciences and Geological Engineering.

Plan: Consists of 99.0 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	(81.0 units)		
<i>Core Science</i>			
A.	3.0 units	from	BIOL 111/3.0 or BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
C.	6.0 units	in	GPHY 101/3.0 and GPHY 102/3.0
D.	6.0 units	in	GEOL 104/3.0 and GEOL 107/3.0
E.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
<i>Geology Core</i>			
F.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0; PHYS 118/6.0
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	from	GEOL at the 300 level or above
<i>Core Social Sciences and Humanities</i>			
J.	3.0 units	from	ENSC 103/3.0 or <i>ENSC 203/3.0</i>
K.	3.0 units	in	ENSC 390/3.0
L.	6.0 units	from	ENSC 430/6.0 or ENSC 501/6.0

2. Option	(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_Interdisciplinary_SocSci/Huma
D.	3.0 units	from	ENSC_Interdisciplinary_Humanities
E.	6.0 units	from	CISC 101/3.0; CISC 121/3.0; CISC 124/3.0; (WRIT 120/3.0 or WRIT 125/3.0); (BIOL; CHEM; CISC; MATH; PHYS; STAT; GPHY_Physical; GPHY_Tech/Methods) at the 200 level or above.

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions	
A.	Up to 3.0 units of Geology may be substituted for 3.0 units of the courses listed in item 2.E above.
B.	ENSC 502/12.0 may be substituted for requirement 1.L. and a further 6.0 units in electives and/or Plan requirements as approved by the Chair of Undergraduate Studies.

6. Notes	

Environmental Geology Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

ENSC_Interdisciplinary_Humanities

Environmental Science/Studies Interdisciplinary Humanities Options

CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

ENSC_Interdisciplinary_SocSci/Huma

Environmental Science/Studies Interdisciplinary and Social Science and Humanities Options

CHEE 342/3.0; CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; DEVS 250/3.0; ECON 290/3.0; ENSC 200/3.0; ENSC 290/3.0; ENSC 301/3.0; ENSC 305/3.0; ENSC 307/3.0; ENSC 310/3.0; ENSC 311/3.0; ENSC 315/3.0; ENSC 320/3.0; ENSC 321/3.0; ENSC 391/3.0; ENSC 407/3.0; ENSC 420/3.0; ENSC 482/3.0; ENSC 483/3.0; *ENSC 490/3.0*; GPHY 336/3.0; GPHY 339/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

ENSC_Specialization_Options_A

Options in the Environmental Science Specialization Plans, List A

BIOL 102/3.0; BIOL 103/3.0; BIOL 335/3.0; ENSC 301/3.0; ENSC 320/3.0; GPHY 318/3.0

ENSC_Specialization_Options_B

Options in the Environmental Science Specialization Plans, List B

BIOL 335/3.0; ENSC 307/3.0; ENSC 201/3.0; ENSC 301/3.0; ENSC 320/3.0; ENSC 407/3.0; ENSC 425/3.0; ENSC 471/3.0; ENSC 480/3.0; ENSC 481/3.0; GEOL 106/3.0; GEOL 107/3.0; GEOL 200/3.0; GPHY 207/3.0; GPHY 209/3.0; GPHY 304/3.0; GPHY 306/3.0; GPHY 312/3.0; GPHY 314/3.0; GPHY 317/3.0; GPHY 318/3.0; GPHY 319/3.0; *GPHY 418/3.0*

GPHY_Physical

Physical Geography

GPHY 102/3.0; *GPHY 103/3.0*; *GPHY 104/3.0*; GPHY 203/3.0; GPHY 204/3.0; GPHY 207/3.0; GPHY 208/3.0; GPHY 209/3.0; *GPHY 303/3.0*; GPHY 304/3.0; GPHY 306/3.0; GPHY 307/3.0; GPHY 309/3.0; GPHY 311/3.0; GPHY 312/3.0; GPHY 314/3.0; GPHY 315/3.0; GPHY 317/3.0; GPHY 318/3.0; GPHY 319/3.0; GPHY 371/3.0; *GPHY 411/3.0*; GPHY 413/3.0; GPHY 415/6.0; GPHY 417/3.0; *GPHY 418/3.0*; GPHY 501/3.0; GPHY 502/3.0; GPHY 503/6.0

GPHY_Tech/Methods

Techniques, Research Methods and Geographic Information Science

GPHY 105/3.0; GPHY 240/3.0; GPHY 242/3.0; GPHY 243/3.0; *GPHY 244/3.0*; GPHY 247/3.0; *GPHY 249/3.0*; GPHY 307/3.0; GPHY 315/3.0; GPHY 341/3.0; GPHY 342/3.0; GPHY 343/3.0; GPHY 344/3.0; GPHY 345/3.0; GPHY 346/3.0; GPHY 347/3.0; GPHY 348/3.0; GPHY 349/3.0; GPHY 372/3.0; GPHY 501/3.0; GPHY 502/3.0; GPHY 503/6.0

EGPY-P-BSH

Subject: Administered by the School of Environmental Studies in partnership with the Department of Geography.

Plan: Consists of 99.0 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	(48.0 units)		
<i>Core Science</i>			
A.	3.0 units	from	BIOL 111/3.0 or BIOL 103/3.0
B.	6.0 units	in	GPHY 101/3.0 and GPHY 102/3.0
C.	3.0 units	in	GEOLOGY 200/3.0
<i>Earth System Science Core</i>			
D.	12.0 units	from	GPHY 207/3.0; GPHY 208/3.0; GPHY 209/3.0; GPHY 247/3.0
E.	3.0 units	from	GPHY 227/3.0; GPHY 228/3.0; GPHY 229/3.0
F.	3.0 units	from	GPHY 242/3.0; GPHY 243/3.0; GPHY 342/3.0
G.	6.0 units	in	GPHY 415/6.0
<i>Core Social Sciences and Humanities</i>			
H.	3.0 units	from	ENSC 103/3.0 or <i>ENSC 203/3.0</i>
I.	3.0 units	in	ENSC 390/3.0
J.	6.0 units	from	ENSC 430/6.0 or ENSC 501/6.0

2. Option	(39.0 units)		
A.	3.0 units	in	GEOLOGY
B.	6.0 units	from	ENSC_Specialization_Options_A
C.	6.0 units	from	ENSC_Interdisciplinary_SocSci/Huma
D.	3.0 units	from	ENSC_Interdisciplinary_Humanities
E.	15.0 units	from	EGPY_Options_A
F.	6.0 units	from	EGPY_Options_B

3. Supporting	(12.0 units)		
A.	6.0 units	from	CHEM or PHYS at the 100 level or above
B.	6.0 units	from	MATH or STAT at the 100 level or above

4. Additional Requirements	

5. Substitutions	
A.	ENSC 502/12.0 may be substituted for requirement 1.J. 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 2.E. , above

6. Notes	

Earth System Science Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

EGPY_Options_A

Options in the Earth System Science Plan, List A

GPHY 304/3.0; GPHY 306/3.0; GPHY 311/3.0; GPHY 312/3.0; GPHY 314/3.0; GPHY 317/3.0; GPHY 318/3.0; *GPHY 411/3.0*; GPHY 413/3.0; GPHY 417/3.0; *GPHY 418/3.0*

EGPY_Options_B

Options in the Earth Systems Science Plan, List B

BIOL 300/3.0; *BIOL 302/3.0*; *BIOL 303/3.0*; BIOL 335/3.0; CIVL 282/3.0; CIVL 283/3.0; CHEM 211/3.0; CHEM 212/3.0; CHEM 213/3.0; CHEM 221/3.0; CHEM 223/3.0; CHEM 240/3.0; CHEM 271/3.0; CHEM 281/3.0; CHEM 282/3.0; CHEM 326/3.0; GEOL 232/3.0; GEOL 238/3.0; GEOL 323/3.0; GEOL 333/3.0; GEOL 343/3.0; GEOL 365/3.0; GEOL 423/3.0; GEOL 433/3.0; GEOL 475/3.0; MICR 221/3.0

ENSC_Specialization_Options_A

Options in the Environmental Science Specialization Plans, List A

BIOL 102/3.0; BIOL 103/3.0; BIOL 335/3.0; ENSC 301/3.0; ENSC 320/3.0; GPHY 318/3.0

ENSC_Interdisciplinary_Humanities

Environmental Science/Studies Interdisciplinary Humanities Options

CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

ENSC_Interdisciplinary_SocSci/Huma

Environmental Science/Studies Interdisciplinary and Social Science and Humanities Options

CHEE 342/3.0; CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; DEVS 250/3.0; ECON 290/3.0; ENSC 200/3.0; ENSC 290/3.0; ENSC 301/3.0; ENSC 305/3.0; ENSC 307/3.0; ENSC 310/3.0; ENSC 311/3.0; ENSC 315/3.0; ENSC 320/3.0; ENSC 321/3.0; ENSC 391/3.0; ENSC 407/3.0; ENSC 420/3.0; ENSC 482/3.0; ENSC 483/3.0; *ENSC 490/3.0*; GPHY 336/3.0; GPHY 339/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

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 Sciences.

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	(75.0 units)		
<i>Core Science</i>			
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
C.	6.0 units	in	GPHY 101/3.0 and GPHY 102/3.0
D.	3.0 units	from	GEOL 104/3.0 or GEOL 107/3.0
E.	3.0 units	from	MATH at the 100 level; STAT at the 200 or 300 level
F.	3.0 units	from	STAT at the 200 or 300 level
<i>Environmental Life Sciences Core</i>			
G.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0; PHYS 118/6.0
H.	3.0 units	in	BIOL 205/3.0
I.	6.0 units	from	PHGY 215/3.0 or PHGY 216/3.0 or <i>PHGY 212/6.0</i> or <i>PHGY 214/.6.0</i>
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.	3.0 units	in	BCHM 218/3.0
M.	6.0 units	in	BCHM 315/3.0 and BCHM 316/3.0
N.	3.0 units	in	PHAR 416/3.0
<i>Core Social Sciences and Humanities</i>			
O.	3.0 units	from	ENSC 103/3.0 or <i>ENSC 203/3.0</i>
P.	3.0 units	in	ENSC 390/3.0
Q.	6.0 units	from	ENSC 430/6.0 or ENSC 501/6.0
2. Option	(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_Interdisciplinary_SocSci/Huma
D.	3.0 units	from	ENSC_Interdisciplinary_Humanities
E.	18.0 units	from	ELSC_Options
3. Supporting	(0.0 units)		
4. Additional Requirements			

5. Substitutions

A.	ENSC 502/12.0 may be substituted for requirement 1.Q. and a further 6.0 units in electives and/or Plan requirements as approved by the Chair of Undergraduate Studies.
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6. Notes

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Environmental Life Science Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

ELSC_Options

Options in the Environmental Life Science Plan

ANAT 215/3.0; ANAT 216/3.0; ANAT 416/3.0; CHEE 342/3.0; CHEE 484/3.0; CIVL 283/3.0; EPID 301/3.0; ENSC 501/6.0; GPHY 339/3.0; HLTH 237/3.0; MICR 320/3.0; MICR 360/3.0; MICR 433/3.0; MICR 435/3.0; MICR 436/3.0; MICR 450/3.0; MICR 451/3.0; MINE 462/3.0; NURS 302/3.0; PATH 410/3.0; PHAR 340/3.0; PHAR 450/3.0; (ANAT 499/12.0 or CANC 499/12.0 or EPID 499/12.0 or LISC 499/12.0 or MICR 499/12.0 or NSCI 499/12.0 or PATH 499/12.0 or PHAR 499/12.0 or PHGY 499/12.0)

ENSC_Interdisciplinary_Humanities

Environmental Science/Studies Interdisciplinary Humanities Options

CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

ENSC_Interdisciplinary_SocSci/Huma

Environmental Science/Studies Interdisciplinary and Social Science and Humanities Options

CHEE 342/3.0; CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; DEVS 250/3.0; ECON 290/3.0; ENSC 200/3.0; ENSC 290/3.0; ENSC 301/3.0; ENSC 305/3.0; ENSC 307/3.0; ENSC 310/3.0; ENSC 311/3.0; ENSC 315/3.0; ENSC 320/3.0; ENSC 321/3.0; ENSC 391/3.0; ENSC 407/3.0; ENSC 420/3.0; ENSC 482/3.0; ENSC 483/3.0; *ENSC 490/3.0*; GPHY 336/3.0; GPHY 339/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

ENSC_Specialization_Options_B

Options in the Environmental Science Specialization Plans, List B

BIOL 335/3.0; ENSC 307/3.0; ENSC 201/3.0; ENSC 301/3.0; ENSC 320/3.0; ENSC 407/3.0; ENSC 425/3.0; ENSC 471/3.0; ENSC 480/3.0; ENSC 481/3.0; GEOL 106/3.0; GEOL 107/3.0; GEOL 200/3.0; GPHY 207/3.0; GPHY 209/3.0; GPHY 304/3.0; GPHY 306/3.0; GPHY 312/3.0; GPHY 314/3.0; GPHY 317/3.0; GPHY 318/3.0; GPHY 319/3.0; *GPHY 418/3.0*

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 120.0 units (114.0 units for students admitted *prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core			
	(39.0 units)		
A.	6.0 units	in	ENGL 100/6.0
B.	6.0 units	in	ENGL 200/6.0
C.	3.0 units	in	ENGL 290/3.0
D.	6.0 units	from	ENGL 305/6.0-339/6.0
E.	6.0 units	from	ENGL 340/6.0-359/6.0
F.	6.0 units	from	ENGL 360/6.0-389/6.0
G.	3.0 units	from	ENGL 405/3.0-459/3.0
H.	3.0 units	from	ENGL 460/3.0-499/3.0

2. Option			
	(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			
	(0.0 units)		

4. Additional Requirements	
A.	Maximum 12.0 units from ENGL_Subs.

5. Substitutions	

6. Notes	
A.	It is recommended that in their second year Majors take at least 18.0 units from ENGL at the 200 level.
B.	ENGL 292/6.0 is recommended for Majors.
C.	Access to courses at the 300 and 400 level is generally restricted to those students who need them to fulfill their core requirements. Students who wish to fulfill Option requirement 2.B. by taking courses at the 300 or 400 level should note that access is extremely limited, and will only be granted subject to availability.

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 120.0 units (114.0 units for students admitted *prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(27.0 units)		
A.	6.0 units	in	ENGL 100/6.0
B.	6.0 units	in	ENGL 200/6.0
C.	3.0 units	in	ENGL 290/3.0
D.	6.0 units	from	ENGL 305/6.0-339/6.0
E.	6.0 units	from	ENGL 340/6.0-389/6.0

2. Option	(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_Sub

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Maximum 6.0 units from ENGL_Sub.		

5. Substitutions			

6. Notes			
A.	ENGL 292/6.0 is recommended for Medials.		
B.	Access to courses at the 300 and 400 level is generally restricted to those students who need them to fulfill their core requirements. Students who wish to fulfill Option requirement 2.B. or 2.C. by taking 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 – 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 to total 114.0 units, 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	(12.0 units)		
A.	6.0 units	in	ENGL 100/6.0
B.	6.0 units	in	ENGL 200/6.0

2. Option	(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_Sub

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Maximum 6.0 units from ENGL_Sub		

5. Substitutions			

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); Theory and Cultural Studies (291-299). It is recommended that students take courses from a range of these categories.		
B.	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.		

English Course List

The following list 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 Open Enrolment period, and then only if space permits.

ENGL_Sub

English Substitutions

CLST 203/3.0; CLST 311/3.0; CLST 312/3.0; CWRI 293/3.0; CWRI 294/3.0; CWRI 295/3.0; CWRI 296/3.0; DRAM 303/3.0; DRAM 306/3.0; DRAM 381/3.0; ENGX; FRST 290/3.0; GNDS 335/3.0; GNDS 370/3.0; GNDS 428/6.0; GNDS 432/6.0; *IDIS 290/3.0*; IDIS 304/3.0; IDIS 305/3.0; INTS 301/3.0; INTS 321/3.0; LING 100/6.0; LING 202/3.0; LING 205/3.0; LING 310/3.0; LING 320/3.0; LING 330/3.0; LING 340/3.0; LLCU 200/3.0; LLCU 210/3.0; LLCU 215/3.0; LLCU 226/3.0; LLCU 232/3.0; LLCU 233/3.0; LLCU 234/3.0; LLCU 257/3.0; LLCU 301/3.0; LLCU 316/3.0; LLCU 322/3.0; LLCU 340/3.0; PHIL 271/3.0

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	(30.0 units)		
<i>Core Science</i>			
A.	3.0 units	from	BIOL 111/3.0 or BIOL 103/3.0
B.	6.0 units	in	GPHY 101/3.0 and GPHY 102/3.0
C.	3.0 units	from	GEOL 104/3.0 or GEOL 107/3.0
D.	6.0 units	in	ENSC 201/3.0 and ENSC 301/3.0
<i>Core Social Sciences and Humanities</i>			
E.	3.0 units	from	ENSC 103/3.0 or <i>ENSC 203/3.0</i>
F.	3.0 units	in	ENSC 390/3.0
G.	6.0 units	from	ENSC 430/6.0 or ENSC 501/6.0

2. Option	(30.0 units)		
<i>Integrative Science</i>			
A.	3.0 units	from	GEOL
B.	9.0 units	from	ENSC_Integrative_Science at the 300 level or above
C.	6.0 units	from	ENSC_Integrative_Science
<i>Interdisciplinary Social Sciences and Humanities</i>			
D.	9.0 units	from	ENSC_Interdisciplinary_SocSci/Huma
E.	3.0 units	from	ENSC_Interdisciplinary_Humanities

3. Supporting	(12.0 units)		
A.	6.0 units	from	CHEM 112/6.0 or (CHEM 113/3.0 and CHEM 114/3.0)
B.	6.0 units	from	MATH or STAT

4. Additional Requirements			

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.		
B.	Students choosing Supporting Courses option (CHEM 113/3.0 and CHEM 114/3.0) must note that these are not acceptable as prerequisites for upper-year CHEM courses and some other courses that include labs.		

Environmental Science Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

ENSC_Integrative_Science

Environmental Science/Studies Integrative Science Options

BIOL 103/3.0; BIOL 201/3.0; BIOL 202/3.0; BIOL 335/3.0; ENSC 201/3.0; ENSC 301/3.0; ENSC 307/3.0; ENSC 320/3.0; ENSC 425/3.0; ENSC 471/3.0; ENSC 407/3.0; ENSC 480/3.0; ENSC 481/3.0; GEOL 106/3.0; GEOL 107/3.0; GEOL 200/3.0; GPHY 207/3.0; GPHY 209/3.0; GPHY 304/3.0; GPHY 306/3.0; GPHY 312/3.0; GPHY 314/3.0; GPHY 317/3.0; GPHY 318/3.0; GPHY 319/3.0; *GPHY 418/3.0*

ENSC_Interdisciplinary_Humanities

Environmental Science/Studies Interdisciplinary Humanities Options

CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

ENSC_Interdisciplinary_SocSci/Huma

Environmental Science/Studies Interdisciplinary and Social Science and Humanities Options

CHEE 342/3.0; CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; DEVS 250/3.0; ECON 290/3.0; ENSC 200/3.0; ENSC 290/3.0; ENSC 301/3.0; ENSC 305/3.0; ENSC 307/3.0; ENSC 310/3.0; ENSC 311/3.0; ENSC 315/3.0; ENSC 320/3.0; ENSC 321/3.0; ENSC 391/3.0; ENSC 407/3.0; ENSC 420/3.0; ENSC 482/3.0; ENSC 483/3.0; *ENSC 490/3.0*; GPHY 336/3.0; GPHY 339/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

Plans of study for students who were admitted to an Environmental Studies Plan after May 1, 2015

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 120.0 units (114.0 units for students admitted prior to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(24.0 units)		
<i>Core Science</i>			
A.	3.0 units	from	BIOL 111/3.0 or BIOL 103/3.0
B.	6.0 units	in	GPHY 101/3.0 and GPHY 102/3.0
C.	3.0 units	from	GEOL 104/3.0; GEOL 106/3.0; GEOL 107/3.0
<i>Core Social Sciences and Humanities</i>			
D.	3.0 units	from	ENSC 103/3.0 or <i>ENSC 203/3.0</i>
E.	3.0 units	in	ENSC 390/3.0
F.	6.0 units	from	ENSC 430/6.0 or ENSC 501/6.0

2. Option	(18.0 units)		
<i>Integrative Science</i>			
A.	3.0 units	from	MATH; STAT; CHEM at the 100 level or above
B.	6.0 units	from	ENSC_Integrative_Science
<i>Interdisciplinary Social Sciences and Humanities</i>			
C.	6.0 units	from	ENSC_Interdisciplinary_SocSci/Huma
D.	3.0 units	from	ENSC_Interdisciplinary_Humanities

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			
A.	ENSC 502/12.0 may be substituted for requirement 1.F. 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.		

Plans of study for students who were admitted to an Environmental Studies Plan after May 1, 2015

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	(18.0 units)		
<i>Core Science</i>			
A.	3.0 units	from	BIOL 111/3.0 or BIOL 103/3.0
B.	3.0 units	in	GPHY 102/3.0
C.	3.0 units	from	GEOL 104/3.0; GEOL 106/3.0; GEOL 107/3.0
D.	3.0 units	from	ENSC 103/3.0 or <i>ENSC 203/3.0</i>
E.	3.0 units	in	ENSC 390/3.0
F.	3.0 units	in	ENSC 201/3.0

2. Option	(12.0 units)		
A.	9.0 units	from	ENSC_Interdisciplinary_SocSci/Huma_Gen/Min_Option
B.	3.0 units	from	ENSC_Interdisciplinary_Humanities

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			

Environmental Studies Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

ENSC_Integrative_Science

Environmental Science/Studies Integrative Science Options

BIOL 103/3.0; BIOL 201/3.0; BIOL 202/3.0; BIOL 335/3.0; ENSC 201/3.0; ENSC 301/3.0; ENSC 307/3.0; ENSC 320/3.0; ENSC 425/3.0; ENSC 471/3.0; ENSC 407/3.0; ENSC 480/3.0; ENSC 481/3.0; GEOL 106/3.0; GEOL 107/3.0; GEOL 200/3.0; GPHY 207/3.0; GPHY 209/3.0; GPHY 304/3.0; GPHY 306/3.0; GPHY 312/3.0; GPHY 314/3.0; GPHY 317/3.0; GPHY 318/3.0; GPHY 319/3.0; *GPHY 418/3.0*

ENSC_Interdisciplinary_Humanities

Environmental Science/Studies Interdisciplinary Humanities Options

CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

ENSC_Interdisciplinary_SocSci/Huma

Environmental Science/Studies Interdisciplinary and Social Science and Humanities Options

CHEE 342/3.0; CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; DEVS 250/3.0; ECON 290/3.0; ENSC 200/3.0; ENSC 290/3.0; ENSC 301/3.0; ENSC 305/3.0; ENSC 307/3.0; ENSC 310/3.0; ENSC 311/3.0; ENSC 315/3.0; ENSC 320/3.0; ENSC 321/3.0; ENSC 391/3.0; ENSC 407/3.0; ENSC 420/3.0; ENSC 482/3.0; ENSC 483/3.0; *ENSC 490/3.0*; GPHY 336/3.0; GPHY 339/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

ENSC_Interdisciplinary_SocSci/Huma_Gen/Min_Option

Environmental Studies Interdisciplinary and Social Science and Humanities Gen/Min Options

CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; DEVS 250/3.0; ECON 290/3.0; ENSC 200/3.0; ENSC 290/3.0; ENSC 301/3.0; ENSC 305/3.0; ENSC 307/3.0; ENSC 310/3.0; ENSC 315/3.0; ENSC 320/3.0; ENSC 321/3.0; ENSC 407/3.0; PHIL 154/3.0; PHIL 293/3.0; PHIL 493/3.0; RELS 235/3.0

ETOX-P-BSH

Subject: Administered by the School of Environmental 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	(72.0 units)		
<i>Core Science</i>			
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
C.	6.0 units	in	GPHY 101/3.0 and GPHY 102/3.0
D.	3.0 units	in	GEOL 104/3.0 or GEOL 107/3.0
E.	6.0 units	from	MATH 111/6.0; MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
<i>Environmental Toxicology Core</i>			
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 and (CHEM 282/3.0 or CHEM 285/3.0)
H.	3.0 units	in	ENSC 201/3.0
I.	3.0 units	in	CHEM 326/3.0
J.	3.0 units	in	ENSC 425/3.0
K.	3.0 units	in	PHAR 416/3.0
<i>Core Social Sciences and Humanities</i>			
L.	3.0 units	from	ENSC 103/3.0 or ENSC 203/3.0
M.	3.0 units	in	ENSC 390/3.0
N.	6.0 units	from	ENSC 430/6.0 or ENSC 501/6.0
2. Option	(30.0 units)		
A.	3.0 units	from	GEOL
B.	3.0 units	from	ENSC_Specialization_Options_B
C.	3.0 units	from	ENSC_Interdisciplinary_SocSci/Huma
D.	3.0 units	from	ENSC_Interdisciplinary_Humanities
E.	6.0 units	from	Option List 2.E.i. or 2.E.ii. or 2.E.iii.
<i>i. Biochemistry, Molecular Biology or Cell Biology Option (6.0 units)</i>			
a.	6.0 units	from	ETOX_Molecular and Cell Biology
<i>ii. Physiology Option (6.0 units)</i>			
a.	6.0 units	from	ETOX_Physiology
<i>iii. Ecology Option (6.0 units)</i>			
a.	6.0 units	from	ETOX_Ecology
F.	12.0 units	from	ETOX_Options

3. Supporting	(0.0 units)	

4. Additional Requirements		

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.N. 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 strongly advised to complete all requirements for 100- and 200-level courses in their first and second year, paying special attention to prerequisites and corequisites needed in 300- and 400-level courses.	
B.	BIOL 206/3.0 is highly recommended as it is a prerequisite for upper-year Ecology courses (e.g., BIOL 300, 323).	

Environmental Toxicology Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

ENSC_Specialization_Options_B

Options in the Environmental Science Specialization Plans, List B

BIOL 335/3.0; ENSC 307/3.0; ENSC 201/3.0; ENSC 301/3.0; ENSC 320/3.0; ENSC 407/3.0; ENSC 425/3.0; ENSC 471/3.0; ENSC 480/3.0; ENSC 481/3.0; GEOL 106/3.0; GEOL 107/3.0; GEOL 200/3.0; GPHY 207/3.0; GPHY 209/3.0; GPHY 304/3.0; GPHY 306/3.0; GPHY 312/3.0; GPHY 314/3.0; GPHY 317/3.0; GPHY 318/3.0; GPHY 319/3.0; *GPHY 418/3.0*

ENSC_Interdisciplinary_Humanities

Environmental Science/Studies Interdisciplinary Humanities Options

CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

ENSC_Interdisciplinary_SocSci/Huma

Environmental Science/Studies Interdisciplinary and Social Science and Humanities Options

CHEE 342/3.0; CLST 214/3.0; DEVS 220/3.0; DEVS 221/3.0; DEVS 250/3.0; ECON 290/3.0; ENSC 200/3.0; ENSC 290/3.0; ENSC 301/3.0; ENSC 305/3.0; ENSC 307/3.0; ENSC 310/3.0; ENSC 311/3.0; ENSC 315/3.0; ENSC 320/3.0; ENSC 321/3.0; ENSC 391/3.0; ENSC 407/3.0; ENSC 420/3.0; ENSC 482/3.0; ENSC 483/3.0; *ENSC 490/3.0*; GPHY 336/3.0; GPHY 339/3.0; PHIL 154/3.0; PHIL 203/3.0; PHIL 293/3.0; PHIL 310/3.0; PHIL 493/3.0; RELS 235/3.0

ETOX_Ecology

Environmental Toxicology Ecology Option

BIOL 300/3.0; *BIOL 302/3.0*; *BIOL 303/3.0*; BIOL 323/3.0; BIOL 335/3.0; BIOL 410/3.0; BIOL 416/3.0; BIOL 421/3.0; BIOL 509/3.0; BIOL 510/3.0; BIOL 527/3.0

ETOX_Molecular and Cell Biology

Environmental Toxicology Molecular and Cell Biology Option

BCHM 218/3.0; BIOL 330/3.0; BIOL 334/3.0; BIOL 403/3.0; BIOL 404/3.0; BIOL 430/3.0; BIOL 431/3.0; BIOL 502/3.0; BIOL 506/3.0; BIOL 508/3.0; MICR 360/3.0

ETOX_Options

Options in the Environmental Toxicology Plan

300 level or above from ENSC; BIOL; CHEM; EPID; GPHY; GEOL

ETOX_Physiology

Environmental Toxicology Physiology Option

BIOL 322/3.0; BIOL 339/3.0; BIOL 341/3.0; BIOL 401/3.0; BIOL 402/3.0

Plans of study for students who were admitted to a Film Plan prior to May 1, 2016

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	(36.0 units)		
A.	6.0 units	from	FILM 110/6.0 or (FILM 104/3.0 and FILM 106/3.0) or (BISC 100/3.0 and FILM 104/3.0)
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 260/3.0
C.	6.0 units	in	FILM 250/6.0
D.	6.0 units	in	FILM 400/3.0 and FILM 402/3.0
E.	6.0 units	in	FILM 460/6.0

2. Option	(24.0 units)		
A.	18.0 units	from	FILM at the 300 level or above; IDIS 311/3.0; LLCU 326/3.0; STSC
B.	6.0 units	from	FILM; IDIS 210/3.0; IDIS 410/6.0

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			
A.	Subject to approval, up to 6.0 units at the 100 level or above in courses focussed on study in the arts or media for option 2.B.		
B.	DEVS 305/6.0 may be substituted for 3.0 option units in 2.A. and 3.0 option units in 2.B.		

6. Notes			

Plans of study for students who were admitted to a Film Plan prior to May 1, 2016

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	(24.0 units)		
A.	6.0 units	from	FILM 110/6.0 or (FILM 104/3.0 and FILM 106/3.0) or (BISC 100/3.0 and FILM 104/3.0)
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 260/3.0
C.	6.0 units	in	FILM 250/6.0

2. Option	(18.0 units)		
A.	6.0 units	from	FILM at the 400 level or above; IDIS 410/6.0
B.	12.0 units	from	FILM at the 300 level or above; IDIS 311/3.0; LLCU 326/3.0; STSC

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions	
A.	DEVS 305/6.0 may be substituted for 3.0 option units in 2.A. and 3.0 option units in 2.B.

6. Notes	

Plans of study for students who were admitted to a Film Plan prior to May 1, 2016

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	(12.0 units)		
A.	6.0 units	from	FILM 110/6.0 or (FILM 104/3.0 and FILM 106/3.0) or (BISC 100/3.0 and FILM 104/3.0)
B.	6.0 units	in	FILM 236/3.0 and FILM 240/3.0

2. Option	(18.0 units)		
A.	6.0 units	from	FILM 216/3.0; FILM 226/3.0; FILM 260/3.0
B.	12.0 units	from	FILM at the 300 level; DEVS 305/6.0; IDIS 311/3.0; LLCU 326/3.0; STSC

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			

Plans of study for students who were admitted to a Film Plan after May 1, 2016

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 120.0 units (*114.0 units for students admitted prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(27.0 units)		
A.	6.0 units	from	FILM 110/6.0 or (FILM 104/3.0 and FILM 106/3.0) or (BISC 100/3.0 and FILM 104/3.0)
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 260/3.0)
C.	6.0 units	in	FILM 250/6.0
D.	6.0 units	in	FILM 460/6.0

2. Option	(33.0 units)		
A.	6.0 units	from	FILM at the 400 level
B.	15.0 units	from	FILM at the 300 level or above; DEVS 305/6.0; IDIS 311/3.0; IDIS 410/3.0; STSC
C.	12.0 units	from	FILM; IDIS 210/3.0; FILM_Centric_Options

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	A maximum of 6.0 units may be taken from FILM_Centric_Options		

5. Substitutions			

6. Notes			

Plans of study for students who were admitted to a Film Plan after May 1, 2016

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 120.0 units (114.0 units for students admitted prior to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(21.0 units)		
A.	6.0 units	from	FILM 110/6.0 or (FILM 104/3.0 and FILM 106/3.0) or (BISC 100/3.0 and FILM 104/3.0)
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 260/3.0)
C.	6.0 units	in	FILM 250/6.0

2. Option	(21.0 units)		
A.	9.0 units	from	FILM at the 400 level or above; IDIS 410/3.0
B.	9.0 units	from	FILM at the 300 level or above; DEVS 305/6.0; IDIS 311/3.0; STSC; FILM_Centric_Options
C.	3.0 units	in	FILM at the 200 level or above

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	A maximum of 6.0 units may be taken from FILM_Centric_Options		

5. Substitutions			

6. Notes			

Plans of study for students who were admitted to a Film Plan after May 1, 2016

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	(12.0 units)		
A.	6.0 units	from	FILM 110/6.0 or (FILM 104/3.0 and FILM 106/3.0) or (BISC 100/3.0 and FILM 104/3.0)
B.	6.0 units	in	FILM 236/3.0 and FILM 240/3.0

2. Option	(18.0 units)		
A.	6.0 units	from	FILM 204/3.0; FILM 216/3.0; FILM 226/3.0; (FILM 210/3.0 or FILM 215/3.0 or FILM 220/3.0 or FILM 225/3.0)
B.	12.0 units	from	FILM at the 300 level; DEVS 305/6.0; IDIS 311/3.0; STSC; FILM_Centric_Options

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	A maximum of 6.0 units may be taken from FILM_Centric_Options		

5. Substitutions			

6. Notes			

Film and Media Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

FILM_Centric_Options

Cinema Focused Options

LLCU 206/3.0; LLCU 209/3.0; LLCU 226; LLCU 249/3.0; LLCU 308/3.0; LLCU 326/3.0; LLCU 328/3.0; RELS 237/3.0; SPAN 458/3.0

Plans of study for students who were admitted to a French Studies Plan after May 1, 2015

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 120.0 units (*114.0 units for students admitted prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(42.0 units)		
A.	6.0 units	in	FREN 150/6.0; FREN 100/6.0; (FREN 101/3.0 and FREN 102/3.0); FREN 110/6.0
B.	12.0 units	in	FREN 219/3.0, FREN 230/3.0, FREN 241/3.0, (FREN 250/3.0 or FREN 344/3.0)
C.	15.0 units	in	FREN 320/3.0, (FREN 330/3.0; FREN 201/3.0; FREN 202/3.0), FREN 331/3.0, FREN 342/3.0, FREN 343/3.0
D.	9.0 units	in	(FREN 450/3.0 or FREN 444/3.0), FREN 498/6.0

2. Options	(18.0 units)		
A.	18.0 units	from	FREN_Options

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			
A.	Those students who spend their third-year on exchange at a French-speaking university or 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.	Students should note that FREN 106/3.0 (formerly <i>FREN P16/3.0</i>); FREN 107/3.0 (formerly <i>FREN P17/3.0</i>); FREN 111/3.0 (formerly <i>FREN P11/3.0</i>); FREN 112/3.0 (formerly <i>FREN P12/3.0</i>) and FREN 118/3.0 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 100-level course sequence that contains One-Way Exclusions. The following courses should be taken in this sequence: FREN 106/3.0 (formerly <i>FREN P16/3.0</i>); FREN 107/3.0 (formerly <i>FREN P17/3.0</i>); FREN 111/3.0 (formerly <i>FREN P11/3.0</i>); FREN 112/3.0 (formerly <i>FREN P12/3.0</i>) and FREN 118/3.0.		

Plans of study for students who were admitted to a French Studies Plan after May 1, 2015

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 120.0 units (114.0 units for students admitted prior to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(33.0 units)		
A.	6.0 units	in	FREN 150/6.0; FREN 100/6.0; (FREN 101/3.0 and FREN 102/3.0); FREN 110/6.0
B.	12.0 units	in	FREN 219/3.0, FREN 230/3.0, FREN 241/3.0, (FREN 250/3.0 or FREN 344/3.0)
C.	12.0 units	in	FREN 320/3.0, (FREN 330/3.0; FREN 201/3.0; FREN 202/3.0), FREN 342/3.0, FREN 343/3.0
D.	3.0 units	in	FREN 450/3.0 or FREN 444/3.0

2. Options	(9.0 units)		
A.	9.0 units	from	FREN_Options

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			
A.	Those students who spend their third-year on exchange at a French-speaking university or 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.	Students should note that FREN 106/3.0 (formerly FREN P16/3.0); FREN 107/3.0 (formerly FREN P17/3.0); FREN 111/3.0 (formerly FREN P11/3.0); FREN 112/3.0 (formerly FREN P12/3.0) and FREN 118/3.0 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 100-level course sequence that contains One-Way Exclusions. The following courses should be taken in this sequence: FREN 106/3.0 (formerly FREN P16/3.0); FREN 107/3.0 (formerly FREN P17/3.0); FREN 111/3.0 (formerly FREN P11/3.0); FREN 112/3.0 (formerly FREN P12/3.0) and FREN 118/3.0.		

Plans of study for students who were admitted to a French Studies Plan after May 1, 2015

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	(24.0 units)		
A.	6.0 units	in	FREN 150/6.0; FREN 100/6.0; (FREN 101/3.0 and FREN 102/3.0); FREN 110/6.0
B.	12.0 units	in	FREN 219/3.0, FREN 230/3.0, FREN 241/3.0, (FREN 250/3.0 or FREN 344/3.0)
C.	6.0 units	from	(FREN 330/3.0; FREN 201/3.0; FREN 202/3.0) and (FREN 342/3.0 or FREN 343/3.0)

2. Options	(6.0 units)		
A.	6.0 units	from	FREN_Gen_Options

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	Students should note that FREN 106/3.0 (formerly FREN P16/3.0); FREN 107/3.0 (formerly FREN P17/3.0); FREN 111/3.0 (formerly FREN P11/3.0); FREN 112/3.0 (formerly FREN P12/3.0) and FREN 118/3.0 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 100-level course sequence that contains One-Way Exclusions. The following courses should be taken in this sequence: FREN 106/3.0 (formerly FREN P16/3.0); FREN 107/3.0 (formerly FREN P17/3.0); FREN 111/3.0 (formerly FREN P11/3.0); FREN 112/3.0 (formerly FREN P12/3.0) and FREN 118/3.0.		

French Studies Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

FREN_Options

Options in the FREN Major and Medial Plans

FREN 290/3.0 (IDIS 290/3.0); FREN 304/3.0; FREN 305/3.0; FREN 306/3.0; FREN 315/3.0; FREN 323/3.0; FREN 324/3.0; FREN 325/3.0; FREN 327/3.0; FREN 335/3.0; FREN 350/3.0; FREN 351/3.0; FREN 352/3.0; FREN 353/3.0; FREN 363/3.0; FREN 373/3.0; FREN 387/3.0; FREN 388/3.0; FREN 390/3.0; FREN 391/3.0; FREN 392/3.0; FREN 393/3.0; FREN 394/3.0; FREN 395/3.0; FREN 396/3.0; FREN 498/6.0; FREN 499/6.0

FREN_Gen_Options

Options in the FREN General and Minor Plans

FREN 290/3.0 (IDIS 290/3.0); FREN 304/3.0; FREN 305/3.0; FREN 306/3.0; FREN 315/3.0; FREN 320/3.0; FREN 323/3.0; FREN 324/3.0; FREN 325/3.0; FREN 327/3.0; FREN 331/3.0; FREN 335/3.0; FREN 342/3.0; FREN 343/3.0; FREN 350/3.0; FREN 351/3.0; FREN 352/3.0; FREN 353/3.0; FREN 363/3.0; FREN 373/3.0; FREN 387/3.0; FREN 388/3.0; FREN 390/3.0; FREN 391/3.0; FREN 392/3.0; FREN 393/3.0; FREN 394/3.0; FREN 395/3.0; FREN 396/3.0; FREN 450/3.0 (FREN 444/3.0); FREN 499/6.0

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 120.0 units (*114.0 units for students admitted prior to September 2017*), 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. Please see the 2014-15 Arts and Science *Calendar* for details of this Plan.

Plans of study for students who were admitted to a Geology Plan between May 2015 and May 2017

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	(42.0 units)		
A.	6.0 units	in	GEOL 104/3.0 and 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.	10.5 units	in	GEOL 300/3.0, (GEOL 301/1.5 or GEOL 302/1.5); GEOL 321/3.0, GEOL 365/3.0
E.	4.5 units	from	(GEOL 401/1.5 or GEOL 402/1.5); GEOL 488/3.0

2. Option	(18.0 units)		
A.	12.0 units	from	GEOL
B.	6.0 units	from	CHEM 112/6.0; [MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)]; (PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0; PHYS 118/6.0; <i>PHYS 107/6.0</i>)

3. Supporting	(12.0 units)		
A.	12.0 units	from	CHEM 112/6.0; [MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)]; (PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0; PHYS 118/6.0; <i>PHYS 107/6.0</i>)

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	100- through 300-level geology courses within the core are prerequisites for most 300- and 400-level courses, and should normally be completed before the end of the third year of study.		

Plans of study for students who were admitted to a Geology Plan between May 2015 and May 2017

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 will lead to a Bachelor of Science Degree.

1. Core	(21.0 units)		
A.	6.0 units	in	GEOL 104/3.0 and 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	in	GEOL 249/3.0 or GEOL 365/3.0

2. Option	(15.0 units)		
A.	15.0 units	from	GEOL

3. Supporting	(12.0 units)		
A.	6.0 units	in	MATH 121/6.0
B.	6.0 units	from	CHEM 112/6.0; (PHYS 106/6.0; PHYS 117/6.0; PHYS 118/6.0; <i>PHYS 107/6.0</i>)

4. Additional Requirements	

5. Substitutions	

6. Notes	

Plans of study for students who were admitted to a Geology Plan between May 2015 and May 2017

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 of Geological Sciences and Geological Engineering.

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	(6.0 units)		
A.	6.0 units	in	GEOL 104/3.0 and GEOL 107/3.0

2. Option	(24.0 units)		
A.	24.0 units	from	GEOL

3. Supporting	(6.0 units)		
A.	6.0 units	from	BIOL; CHEM; CISC; MATH; PHYS

4. Additional Requirements			

5. Substitutions			

6. Notes			

Plans of study for students who were admitted to a Geology Plan between May 2015 and May 2017

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		(63.0 units)	
A.	6.0 units	in	GEOL 104/3.0 and GEOL 107/3.0
B.	6.0 units	in	CHEM 112/6.0
C.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
D.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0; PHYS 118/6.0; <i>PHYS 107/6.0</i>
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.	13.5 units	in	GEOL 300/3.0, (GEOL 301/1.5 or GEOL 302/1.5); GEOL 321/3.0, GEOL 337/3.0, GEOL 365/3.0
H.	4.5 units	from	(GEOL 401/1.5 or GEOL 402/1.5); GEOL 488/3.0

2. Option		(33.0 units)	
A.	6.0 units	from	BIOL 102/3.0; BIOL 103/3.0; BIOL 110/3.0; BIOL 111/3.0; MATH 110/6.0; MATH 111/6.0; MATH 112/3.0
B.	15.0 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
<i>Complementary Courses</i>			
E.	6.0 units	from	WRIT 120/3.0; WRIT 125/3.0; <i>WRIT 175/3.0</i> ; 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		(0.0 units)	

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	100- through 300-level geology courses within the core are prerequisites for most 300- and 400-level courses, and should normally be completed before the end of the third year of study.

Plans of study for students who were admitted to a Geology Plan after May 2018

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	(42.0 units)		
A.	6.0 units	in	GEOL 104/3.0 and 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.	10.5 units	in	GEOL 300/3.0, (GEOL 301/1.5 or GEOL 302/1.5); GEOL 321/3.0, GEOL 365/3.0
E.	4.5 units	from	(GEOL 401/1.5 or GEOL 402/1.5); GEOL 488/3.0

2. Option	(18.0 units)		
A.	12.0 units	from	GEOL
B.	6.0 units	from	CHEM 112/6.0; [MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)]; (PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0; PHYS 118/6.0; <i>PHYS 107/6.0</i>)

3. Supporting	(12.0 units)		
A.	12.0 units	from	CHEM 112/6.0; [MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)]; (PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0; PHYS 118/6.0; <i>PHYS 107/6.0</i>)

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	100- through 300-level geology courses within the core are prerequisites for most 300- and 400-level courses, and should normally be completed before the end of the third year of study.		

Plans of study for students who were admitted to a Geology Plan after May 2018

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 will lead to a Bachelor of Science Degree.

1. Core	(21.0 units)		
A.	6.0 units	in	GEOL 104/3.0 and 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	in	GEOL 249/3.0 or GEOL 365/3.0

2. Option	(15.0 units)		
A.	15.0 units	from	GEOL

3. Supporting	(12.0 units)		
A.	6.0 units	in	MATH 121/6.0
B.	6.0 units	from	CHEM 112/6.0; (PHYS 106/6.0; PHYS 117/6.0; PHYS 118/6.0; <i>PHYS 107/6.0</i>)

4. Additional Requirements			

5. Substitutions			

6. Notes			

Plans of study for students who were admitted to a Geology Plan after May 2018

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 of Geological Sciences and Geological Engineering.

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	(6.0 units)		
A.	6.0 units	in	GEOL 104/3.0 and GEOL 107/3.0

2. Option	(24.0 units)		
A.	24.0 units	from	GEOL

3. Supporting	(6.0 units)		
A.	6.0 units	from	BIOL; CHEM; CISC; MATH; PHYS

4. Additional Requirements			

5. Substitutions			

6. Notes			

Plans of study for students who were admitted to a Geology Plan after May 2018

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		(66.0 units)	
A.	6.0 units	in	GEOL 104/3.0 and GEOL 107/3.0
B.	6.0 units	in	CHEM 112/6.0
C.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
D.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0; PHYS 118/6.0; <i>PHYS 107/6.0</i>
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.	16.5 units	in	GEOL 300/3.0, (GEOL 301/1.5 or GEOL 302/1.5); GEOL 321/3.0, GEOL 333/3.0, GEOL 337/3.0, GEOL 365/3.0
H.	4.5 units	from	(GEOL 401/1.5 or GEOL 402/1.5); GEOL 488/3.0

2. Option		(30.0 units)	
A.	6.0 units	from	BIOL 102/3.0; BIOL 103/3.0; BIOL 110/3.0; BIOL 111/3.0; MATH 110/6.0; MATH 111/6.0; MATH 112/3.0
B.	12.0 units	from	GEOL
C.	3.0 units	from	GEOL 368/3.0 or GEOL 463/3.0
D.	3.0 units	from	GEOL 362/3.0 or GEOL 452/3.0 or GEOL 475/3.0
<i>Complementary Courses</i>			
E.	6.0 units	from	CISC 101/3.0; CISC 121/3.0; CISC 124/3.0; DEVS 220/3.0; WRIT 120/3.0; WRIT 125/3.0; <i>WRIT 175/3.0</i> ; BIOL; CHEM; CISC; MATH; PHYS; STAT; GPHY_Physical; GPHY_Tech/Methods at the 200 level or above.

3. Supporting		(0.0 units)	

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	100- through 300-level geology courses within the core are prerequisites for most 300- and 400-level courses, and should normally be completed before the end of the third year of study.

Geology Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

GPHY_Physical

Physical Geography

GPHY 102/3.0; *GPHY 103/3.0*; *GPHY 104/3.0*; GPHY 203/3.0; GPHY 204/3.0; GPHY 207/3.0; GPHY 208/3.0; GPHY 209/3.0; GPHY 304/3.0; GPHY 306/3.0; GPHY 307/3.0; GPHY 309/3.0; GPHY 311/3.0; GPHY 312/3.0; GPHY 314/3.0; GPHY 315/3.0; GPHY 317/3.0; GPHY 318/3.0; GPHY 319/3.0; GPHY 371/3.0; *GPHY 411/3.0*; GPHY 413/3.0; GPHY 415/6.0; GPHY 417/3.0; *GPHY 418/3.0*; GPHY 501/3.0; GPHY 502/3.0; GPHY 503/6.0

GPHY_Tech/Methods

Techniques, Research Methods and Geographic Information Science

GPHY 105/3.0; GPHY 240/3.0; GPHY 242/3.0; GPHY 243/3.0; *GPHY 244/3.0*; GPHY 247/3.0; *GPHY 249/3.0*; GPHY 307/3.0; GPHY 315/3.0; GPHY 341/3.0; GPHY 342/3.0; GPHY 343/3.0; GPHY 344/3.0; GPHY 345/3.0; GPHY 346/3.0; GPHY 347/3.0; GPHY 348/3.0; GPHY 349/3.0; GPHY 372/3.0; GPHY 501/3.0; GPHY 502/3.0; GPHY 503/6.0

German Studies – Medial (Arts) – Bachelor of Arts (Honours)

GMST[----]-A or [----]GMST-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 120.0 units (114.0 units for students admitted prior to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(24.0 units)		
A.	6.0 units	in	GRMN 101/3.0 and GRMN 102/3.0
B.	6.0 units	in	GRMN 201/3.0 and GRMN 202/3.0
C.	12.0 units	from	GRMN at the 300 level

2. Option	(18.0 units)		
A.	18.0 units	from	GRMN at the 300 level or above; ARTH 306/3.0; GMST_Sub

3. Supporting	(0.0 units)		

4. Additional Requirements	

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 GMST_Sub.

6. Notes	
A.	See <i>First-Year Courses and Acceleration</i> in the Departmental Information section of this Calendar for guidance in selecting first-year German courses.

German Studies Minor (Arts)

GMST-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 Studies – General (Arts) – Bachelor of Arts

GMST-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	(24.0 units)		
A.	6.0 units	in	GRMN 101/3.0 and GRMN 102/3.0
B.	6.0 units	in	GRMN 201/3.0 and GRMN 202/3.0
C.	12.0 units	from	GRMN at the 300 level

2. Option	(6.0 units)		
A.	6.0 units	from	GRMN at the 300 level or above; ARTH 306/3.0; GMST_Sub

3. Supporting	(0.0 units)		

4. Additional Requirements			

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 GMST_Sub.		

6. Notes			
A.	See <i>First-Year Courses and Acceleration</i> in the Departmental Information section of this Calendar for guidance in selecting first-year German courses.		

German Studies Course List

The following list 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 Open Enrolment period, and then only if space permits.

GMST_Substitutions

German Studies Substitutions

FRST 290/3.0 (formerly *IDIS 290/3.0*); HIST 121/6.0; *HIST 250/6.0*; HIST 255/3.0; *HIST 277/3.0*; HIST 281/3.0; HIST 295/3.0; IDIS 290/3.0; IDIS 303/3.0; *INTS 320/3.0*; INTS 321/3.0; LING 100/6.0; LING 310/3.0; LING 320/3.0; LING 330/3.0; LING 340/3.0; LLCU 110/3.0; LLCU 111/3.0; LLCU 200/3.0; LLCU 206/3.0; LLCU 322/3.0; PHIL 256/3.0

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 120.0 units (114.0 units for students admitted *prior* to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(18.0 units)		
A.	3.0 units	in	GNDS 120/3.0
B.	3.0 units	in	GNDS 125/3.0
C.	6.0 units	in	GNDS 212/3.0 and GNDS 215/3.0
D.	3.0 units	in	GNDS 311/3.0
E.	3.0 units	in	GNDS 345/3.0

2. Option	(42.0 units)		
A.	12.0 units	from	GNDS at the 300 level
B.	6.0 units	from	GNDS at the 400 level or above
C.	24.0 units	from	GNDS; GNDS_Options

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	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 120.0 units (114.0 units for students admitted *prior* to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core		(18.0 units)	
A.	3.0 units	in	GNDS 120/3.0
B.	3.0 units	in	GNDS 125/3.0
C.	6.0 units	in	GNDS 212/3.0 and GNDS 215/3.0
D.	3.0 units	in	GNDS 311/3.0
E.	3.0 units	in	GNDS 345/3.0

2. Option		(24.0 units)	
A.	12.0 units	from	GNDS at the 300 level
B.	12.0 units	from	GNDS; GNDS_Options

3. Supporting		(0.0 units)	

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	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	(12.0 units)		
A.	3.0 units	in	GNDS 120/3.0
B.	3.0 units	in	GNDS 125/3.0
C.	6.0 units	in	GNDS 212/3.0 and GNDS 215/3.0

2. Option	(18.0 units)		
A.	18.0 units	from	GNDS; GNDS_Options

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	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 Course Lists

The following list 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 Open Enrolment period, and then only if space permits.

GNDS_Options

Gender Studies Options

ARTH 310/3.0; ARTH 311/3.0;

BIOL 369/3.0;

BISC 101/3.0;

DEVS 305/6.0;

DRAM 375/3.0; *DRAM 475/3.0*;

ECON 262/3.0;

ENGL 222/3.0; ENGL 223/3.0; ENGL 277/3.0;

ENSC 321/3.0; ENSC 420/3.0;

FILM 331/3.0;

FREN 390/3.0;

GPHY 352/3.0;

HIST 210/3.0; HIST 280/6.0; HIST 281/3.0; HIST 446/4.5; HIST 447/4.5; HIST 464/9.0; HIST 465/9.0; *HIST 480/3.0*;

IDIS 302/3.0;

INTS 321/3.0;

ITLN 363/3.0;

LAW 516/3.0; LAW 533/3.0; LAW 534/3.0;

LLCU 244/3.0; LLCU 326/3.0; LLCU 328/3.0; LLCU 330/3.0; LLCU 331/3.0; LLCU 333/3.0;

MECH 333/3.0;

MUSC 286/3.0;

MUTH 201/3.0;

NURS 240/3.0;

PHIL 275/3.0; PHIL 276/3.0; PHIL 376/3.0; PHIL 454/3.0;

POLS 280/3.0; POLS 318/3.0; POLS 352/3.0; POLS 382/3.0; POLS 443/3.0; POLS 456/3.0; POLS 483/3.0;

RELS 236/3.0; *RELS 254/6.0*; *RELS 259/3.0*; RELS 312/3.0; *RELS 332/3.0*;

SOCY 232/3.0; SOCY 303/3.0; *SOCY 331/6.0*; SOCY 384/3.0; SOCY 389/3.0; SOCY 403/3.0; SOCY 431/3.0;

SPAN 354/3.0; SPAN 428/3.0;

Plans of study for students who were admitted to a Geography Plan prior to May 1, 2016

Geography – Major (Science) – Bachelor of Science (Honours)

GPHY-M-BSH

Subject: Administered by the Department of Geography and Planning.

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	(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	in	GEOL 200/3.0
D.	3.0 units	in	GPHY 247/3.0
E.	3.0 units	from	GPHY 242/3.0; GPHY 243/3.0

2. Option	(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 at the 400 level
C.	12.0 units	from	GPHY_Physical; GPHY_Tech/Methods at the 300 level or above
D.	6.0 units	from	GPHY_Physical; GPHY_Tech/Methods
E.	6.0 units	from	ASC_Sciences_Excluding_GPHY at the 200 level or above

3. Supporting	(12.0 units)		
A.	12.0 units	from	CHEM or MATH or STAT or PHYS at the 100 level or above

4. Additional Requirements			

5. Substitutions			

6. Notes			

Plans of study for students who were admitted to a Geography Plan prior to May 1, 2016

Geography – Minor (Science)

GPHY-Z

Subject: Administered by the Department of Geography and Planning.

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.

Geography – General (Science) – Bachelor of Science

GPHY-G-BSC

Subject: Administered by the Department of Geography and Planning.

Plan: Consists of 48.0 units as described below.

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

1. Core	(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 243/3.0

2. Option	(15.0 units)		
A.	9.0 units	from	GPHY_Physical; GPHY_Tech/Methods at the 300 level or above
B.	6.0 units	from	GPHY_Human at the 200 level or above

3. Supporting	(6.0 units)		
A.	6.0 units	from	CHEM or MATH or STAT or PHYS at the 100 level or above

4. Additional Requirements			
A.	Minimum of an additional 6.0 units in the physical and natural sciences or mathematics, from ASC_Science.		

5. Substitutions			

6. Notes			

Plans of study for students who were admitted to a Geography Plan prior to May 1, 2016

Geography – Major (Arts) – Bachelor of Arts (Honours)

GPHY-M-BAH

Subject: Administered by the Department of Geography and Planning.

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	(21.0 units)		
A.	6.0 units	in	GPHY 101/3.0 and GPHY 102/3.0
B.	6.0 units	from	(GPHY 240/3.0 or SOCY 210/3.0); GPHY 242/3.0; GPHY 243/3.0; GPHY 247/3.0
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

2. Option	(39.0 units)		
A.	6.0 units	from	GPHY_Physical at the 200 level or above
B.	21.0 units	from	GPHY at the 300 level or above; IDIS 302/3.0
C.	12.0 units	from	GPHY; IDIS 302/3.0

3. Supporting			

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	Students are strongly recommended to take core requirement 1.B. in their second year.
B.	Courses in GPHY at the 300 level or above are normally restricted to students at Level 3.

Plans of study for students who were admitted to a Geography Plan prior to May 1, 2016

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 and Planning.

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	(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 or SOCY 210/3.0); GPHY 242/3.0; GPHY 243/3.0; GPHY 247/3.0
C.	6.0 units	from	GPHY 227/3.0; GPHY 228/3.0; GPHY 229/3.0

2. Option	(24.0 units)		
A.	6.0 units	from	GPHY_Physical at the 200 level or above
B.	3.0 units	from	GPHY at the 400 level
C.	9.0 units	from	GPHY at the 300 level or above; IDIS 302/3.0
D.	6.0 units	from	GPHY; IDIS 302/3.0

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	Courses in GPHY at the 300 level or above are normally restricted to students at Level 3.

Plans of study for students who were admitted to a Geography Plan prior to May 1, 2016

Geography – Minor (Arts)

GPHY-Y

Subject: Administered by the Department of Geography and Planning.

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 and Planning.

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	(6.0 units)		
A.	6.0 units	in	GPHY 101/3.0 and GPHY 102/3.0

2. Option	(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 at the 300 level or above; IDIS 302/3.0
D.	6.0 units	from	GPHY; IDIS 302/3.0

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			

Plans of study for students who were admitted to a Geography Plan after May 1, 2016

Geography – Major (Science) – Bachelor of Science (Honours)

GPHY-M-BSH

Subject: Administered by the Department of Geography and Planning.

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		(30.0 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	GEOL 200/3.0
D.	3.0 units	in	GPHY 247/3.0
E.	3.0 units	from	GPHY 242/3.0; GPHY 243/3.0
F.	6.0 units	in	GPHY 415/6.0

2. Option		(30.0 units)	
A.	6.0 units	from	GPHY_Human at the 200 level or above
B.	12.0 units	from	GPHY_Physical; GPHY_Tech/Methods at the 300 level or above
C.	6.0 units	from	GPHY_Physical; GPHY_Tech/Methods
D.	6.0 units	from	ASC_Sciences_Excluding_GPHY at the 200 level or above

3. Supporting		(12.0 units)	
A.	6.0 units	from	MATH or STAT at the 100 level or above
B.	6.0 units	from	CHEM or PHYS at the 100 level or above

4. Additional Requirements	

5. Substitutions	

6. Notes	

Plans of study for students who were admitted to a Geography Plan after May 1, 2016

Geography – Minor (Science)

GPHY-Z

Subject: Administered by the Department of Geography and Planning.

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.

Geography – General (Science) – Bachelor of Science

GPHY-G-BSC

Subject: Administered by the Department of Geography and Planning.

Plan: Consists of 48.0 units as described below.

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

1. Core	(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 243/3.0

2. Option	(15.0 units)		
A.	9.0 units	from	GPHY_Physical; GPHY_Tech/Methods at the 300 level or above
B.	6.0 units	from	GPHY_Human at the 200 level or above

3. Supporting	(6.0 units)		
A.	6.0 units	from	CHEM or MATH or STAT or PHYS at the 100 level or above

4. Additional Requirements			
A.	Minimum of an additional 6.0 units in the physical and natural sciences or mathematics, from ASC_Science.		

5. Substitutions			

6. Notes			

Plans of study for students who were admitted to a Geography Plan after May 1, 2016

Geography – Major (Arts) – Bachelor of Arts (Honours)

GPHY-M-BAH

Subject: Administered by the Department of Geography and Planning.

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 (*114.0 units for students admitted prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(21.0 units)		
A.	6.0 units	in	GPHY 101/3.0 and GPHY 102/3.0
B.	6.0 units	from	(GPHY 240/3.0 or SOCY 210/3.0); GPHY 242/3.0; GPHY 243/3.0; GPHY 247/3.0
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

2. Option	(39.0 units)		
A.	6.0 units	from	GPHY_Physical at the 200 level or above
B.	21.0 units	from	GPHY at the 300 level or above; IDIS 302/3.0
C.	12.0 units	from	GPHY; IDIS 302/3.0

3. Supporting			

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	Students are strongly recommended to take core requirement 1.B. in their second year.
B.	Courses in GPHY at the 300 level or above are normally restricted to students at Level 3.

Plans of study for students who were admitted to a Geography Plan after May 1, 2016

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 and Planning.

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 120.0 units (114.0 units for students admitted *prior* to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(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 or SOCY 210/3.0); GPHY 242/3.0; GPHY 243/3.0; GPHY 247/3.0
C.	6.0 units	from	GPHY 227/3.0; GPHY 228/3.0; GPHY 229/3.0

2. Option	(24.0 units)		
A.	6.0 units	from	GPHY_Physical at the 200 level or above
B.	3.0 units	from	GPHY at the 400 level
C.	9.0 units	from	GPHY at the 300 level or above; IDIS 302/3.0
D.	6.0 units	from	GPHY; IDIS 302/3.0

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	Courses in GPHY at the 300 level or above are normally restricted to students at Level 3.

Plans of study for students who were admitted to a Geography Plan after May 1, 2016

Geography – Minor (Arts)

GPHY-Y

Subject: Administered by the Department of Geography and Planning.

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 and Planning.

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	(6.0 units)		
A.	6.0 units	in	GPHY 101/3.0 and GPHY 102/3.0

2. Option	(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 at the 300 level or above; IDIS 302/3.0
D.	6.0 units	from	GPHY; IDIS 302/3.0

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			

Geography Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

ASC_Science

Natural and Physical Science Courses

ANAT;
ASTR;
BCHM;
BIOL;
BIOM;
BMED 270/3.0; BMED 370/3.0; BMED 372/3.0; BMED 380/3.0; BMED 381/3.0; BMED 383/3.0; BMED 384/3.0;
BMED 470/3.0; BMED 473/3.0; BMED 480/3.0; *BMED 482/3.0*; BMED 483/3.0;
CANC;
CHEE 209/3.0;
CHEM;
CISC;
COGS;
COMM 162/3.0;
COMP;
CRSS;
DDHT;
ECON 250/3.0;
ENSC 201/3.0; ENSC 301/3.0; ENSC 307/3.0; ENSC 320/3.0; ENSC 407/3.0; ENSC 425/3.0; ENSC 471/3.0; EN
480/3.0; ENSC 481/3.0;
EPID;
GEOL;
GLPH 472/3.0;
GPHY_Physical;
GPHY_Tech/Methods;
HLTH 230/3.0; HLTH 331/3.0;
KNPE 125/3.0; KNPE 153/3.0; KNPE 225/3.0; KNPE 227/3.0; KNPE 251/3.0; KNPE 254/3.0; KNPE 255/3.0; KN
261/3.0; KNPE 327/3.0; KNPE 339/3.0; KNPE 354/3.0; KNPE 355/3.0; KNPE 425/3.0; *KNPE 427/3.0*; KNPE 429/3
KNPE 439/3.0; KNPE 450/3.0; KNPE 454/3.0; KNPE 455/3.0; KNPE 459/3.0; KNPE 493/3.0;
LISC;
MATH;
MICR;
NSCI;
NURS 323/3.0; NURS 324/3.0;
PATH;
PHAR;
PHGY;
PHYS;
POLS 385/3.0;
PSYC 100/6.0; PSYC 101/3.0; PSYC 103/3.0; PSYC 202/3.0; PSYC 203/3.0; PSYC 205/3.0; PSYC 215/3.0; PSYC 221/3
PSYC 271/3.0, *PSYC 300/6.0*; PSYC 301/3.0; PSYC 302/3.0; PSYC 450/3.0; PSYC_Cluster_A;
SOCY 210/3.0; SOCY 211/3.0;
STAT

ASC_Science_Excluding_GPHY***Natural and Physical Science Courses, no GPHY Courses***

ANAT;

ASTR;

BCHM;

BIOL;

BIOM;

BMED 270/3.0; BMED 370/3.0; BMED 372/3.0; BMED 380/3.0; BMED 381/3.0; BMED 383/3.0; BMED 384/3.0;

BMED 470/3.0; BMED 473/3.0; BMED 480/3.0; *BMED 482/3.0*; BMED 483/3.0;

CANC;

CHEE 209;

CHEM;

CISC;

COGS;

COMM 162/3.0;

COMP;

CRSS;

DDHT;

ECON 250/3.0;

ENSC 201/3.0; ENSC 301/3.0; ENSC 307/3.0; ENSC 320/3.0; ENSC 407/3.0; ENSC 425/3.0; ENSC 471/3.0; ENSC 480/3.0; ENSC 481/3.0;

EPID;

GEOL;

GPHL 472/3.0;

HLTH 230/3.0; HLTH 331/3.0;

KNPE 125/3.0; KNPE 153/3.0; KNPE 225/3.0; KNPE 227/3.0; KNPE 251/3.0; KNPE 254/3.0; KNPE 255/3.0; KNPE

261/3.0; KNPE 327/3.0; KNPE 339/3.0; KNPE 354/3.0; KNPE 355/3.0; KNPE 425/3.0; *KNPE 427/3.0*; KNPE 429/3.0;

KNPE 439/3.0; KNPE 450/3.0; KNPE 454/3.0; KNPE 455/3.0; KNPE 459/3.0; KNPE 493/3.0;

LISC;

MATH;

MICR;

NSCI;

NURS 323/3.0; NURS 324/3.0;

PATH;

PHAR;

PHGY;

PHYS;

POLS 385/3.0;

PSYC 100/6.0; PSYC 101/3.0; PSYC 103/3.0; PSYC 202/3.0; PSYC 203/3.0; PSYC 205/3.0; PSYC 215/3.0; PSYC 271/3.0,

PSYC 300/6.0; PSYC 301/2.0; PSYC 302/3.0; PSYC 450/3.0; PSYC_Cluster_A;

SOCY 210/3.0; SOCY 211/3.0;

STAT

GPHY_Human***Human Geography***

GPHY 101/3.0; GPHY 227/3.0; GPHY 228/3.0; GPHY 229/3.0; GPHY 250/3.0; GPHY 254/3.0; GPHY 257/3.0; GPHY

258/3.0; GPHY 259/3.0; GPHY 309/3.0; GPHY 319/3.0; GPHY 325/3.0; GPHY 327/3.0; GPHY 330/3.0; GPHY 332/3.0;

GPHY 336/3.0; GPHY 337/3.0; GPHY 338/3.0; GPHY 339/3.0; GPHY 351/3.0; GPHY 352/3.0; GPHY 359/3.0; GPHY

362/3.0; GPHY 365/3.0; GPHY 368/3.0; GPHY 370/3.0; GPHY 401/3.0; GPHY 402/3.0; GPHY 403/3.0; GPHY 501/3.0;

GPHY 502/3.0; GPHY 503/6.0; IDIS 302/3.0

GPHY_Physical***Physical Geography***

GPHY 102/3.0; *GPHY 103/3.0*; *GPHY 104/3.0*; GPHY 203/3.0; GPHY 204/3.0; GPHY 207/3.0; GPHY 208/3.0; GPHY 209/3.0; GPHY 304/3.0; GPHY 306/3.0; GPHY 307/3.0; GPHY 309/3.0; GPHY 310/3.0; GPHY 311/3.0; GPHY 312/3.0; GPHY 314/3.0; GPHY 315/3.0; GPHY 317/3.0; GPHY 318/3.0; GPHY 319/3.0; GPHY 371/3.0; *GPHY 411/3.0*; GPHY 413/3.0; GPHY 415/6.0; GPHY 417/3.0; *GPHY 418/3.0*; GPHY 501/3.0; GPHY 502/3.0; GPHY 503/6.0

GPHY_Tech/Methods***Techniques, Research Methods and Geographic Information Science***

GPHY 105/3.0; GPHY 240/3.0; GPHY 242/3.0; GPHY 243/3.0; GPHY 247/3.0; GPHY 307/3.0; GPHY 315/3.0; GPHY 341/3.0; GPHY 342/3.0; GPHY 343/3.0; GPHY 344/3.0; GPHY 345/3.0; GPHY 346/3.0; GPHY 347/3.0; GPHY 348/3.0; GPHY 349/3.0; GPHY 372/3.0; GPHY 501/3.0; GPHY 502/3.0; GPHY 503/6.0

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 120.0 units (*114.0 units for students admitted prior to September 2017*), 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. Please see the 2014-15 Arts and Science *Calendar* for details of this Plan.

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 120.0 units (*114.0 units for students admitted prior to September 2017*), 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. Please see the 2014-15 Arts and Science *Calendar* for details of this Plan.

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.

This Plan is currently under academic review. No new students will be admitted to the Plan. Please see the 2014-15 Arts and Science *Calendar* for details of this Plan.

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.

This Plan is currently under academic review. No new students will be admitted to the Plan. Please see the 2014-15 Arts and Science *Calendar* for details of this Plan.

HISP-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 120.0 units (114.0 units for students admitted *prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(39.0 units)		
A.	6.0 units	from	(SPAN 111/3.0 or <i>SPAN P10/3.0</i>) and SPAN 112/3.0
B.	9.0 units	in	[(SPAN 204/3.0 and SPAN 205/3.0) or <i>SPAN 201/6.0</i>] and SPAN 206/3.0
C.	18.0 units	from	LLCU 247/3.0; LLCU 248/3.0; 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	(21.0 units)		
A.	15.0 units	from	SPAN at the 300 level or above
B.	6.0 units	from	SPAN; HISP_Maj_Med_Options

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	
A.	Up to 6.0 units in ITLN may be substituted if SPAN 111/3.0; SPAN 112/3.0; <i>SPAN P10/3.0</i> 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 1.A. , 1.B. , 1.C. and 1.D. These would be replaced with SPAN options.
B.	To register in SPAN 111/3.0 or ITLN 111/3.0 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.

Hispanic Studies – Medial (Arts) – Bachelor of Arts (Honours)

HISP[----]-A or [----]HISP-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 120.0 units (114.0 units for students admitted *prior* to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(30.0 units)		
A.	6.0 units	from	(SPAN 111/3.0 or <i>SPAN P10/3.0</i>) and SPAN 112/3.0
B.	9.0 units	in	[(SPAN 204/3.0 and SPAN 205/3.0) or <i>SPAN 201/6.0</i>] and SPAN 206/3.0
C.	3.0 units	from	LLCU 247/3.0 or LLCU 248/3.0
D.	6.0 units	from	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	(12.0 units)		
A.	9.0 units	from	SPAN at the 300 level or above
B.	3.0 units	from	SPAN; SPAN_Maj_Med_Options

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	
A.	Up to 6.0 units in ITLN may be substituted if SPAN 111/3.0; SPAN 112/3.0; <i>SPAN P10/3.0</i> 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 1.A. , 1.B. , 1.D. and 1.E. These would be replaced with SPAN options.
B.	To register in SPAN 111/3.0 or ITLN 111/3.0 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.

Hispanic Studies – Minor (Arts)

HISP-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.

Hispanic Studies – General (Arts) – Bachelor of Arts

HISP-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	(27.0 units)		
A.	6.0 units	from	(SPAN 111/3.0 or <i>SPAN P10/3.0</i>) and SPAN 112/3.0
B.	9.0 units	in	[(SPAN 204/3.0 and SPAN 205/3.0) or <i>SPAN 201/6.0</i>] and SPAN 206/3.0
C.	6.0 units	from	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	(3.0 units)		
A.	3.0 units	from	SPAN; HISP_Gen_Options

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

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 1.A. , 1.B. , 1.C. and 1.D. These would be replaced with SPAN options.
B.	To register in SPAN 111/3.0 or ITLN 111/3.0 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.

Hispanic Studies Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

HISP_Maj_Med_Options

Options in the Hispanic Studies Major and Medial Plans

ARTH 272/3.0; DEVS 305/6.0; *IDIS 201/6.0*; LLCU 110/3.0; LLCU 111/3.0; LLCU 200/3.0; LLCU 201/3.0; LLCU 206/3.0; LLCU 244/3.0; LLCU 249/3.0; LLCU 301/3.0; LLCU 354/3.0; LLCU 358/3.0

HISP_Gen_Options

Options in the Hispanic Studies General Plan

LLCU 110/3.0; LLCU 111/3.0; LLCU 200/3.0; LLCU 201/3.0; LLCU 206/3.0; LLCU 244/3.0; LLCU 247/3.0; LLCU 248/3.0; LLCU 249/3.0; LLCU 301/3.0; *IDIS 201/6.0*; LLCU 354/3.0; LLCU 358/3.0

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 120.0 units (114.0 units for students admitted *prior* to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(39.0 units)		
A.	6.0 units	from	HIST 121/6.0; HIST 122/6.0; HIST 124/6.0; HIST 125/6.0; BISC 100/3.0; BISC 101/3.0
B.	6.0 units	from	HIST 300/6.0-329/6.0
C.	27.0 units	from	HIST 333/4.5-499/4.5

2. Option	(21.0 units)		
A.	15.0 units	from	HIST at the 200 level; HIST 330/3.0-332/3.0; HIST at the 500 level
B.	6.0 units	from	HIST at the 100 or 200 level; HIST_Sub

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Minimum 6.0 units from HIST_Canadian		
B.	Maximum 6.0 units from HIST_Sub		

5. Substitutions			

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.		
C.	Students are expected to take courses from HIST 300/6.0-329/6.0 in their second year.		

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 120.0 units (114.0 units for students admitted *prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core		(30.0 units)	
A.	6.0 units	from	HIST 121/6.0; HIST 122/6.0; HIST 124/6.0; HIST 125/6.0; BISC 100/3.0; BISC 101/3.0
B.	6.0 units	from	HIST 300/6.0-329/6.0
C.	18.0 units	from	HIST 333/4.5-499/4.5

2. Option		(12.0 units)	
A.	6.0 units	from	HIST at the 200 level; HIST 330/3.0-332/3.0; HIST at the 500 level
B.	6.0 units	from	HIST at the 100- or 200-level; HIST_Sub

3. Supporting		(0.0 units)	

4. Additional Requirements	
A.	Minimum 6.0 units from HIST_Canadian
B.	Maximum 6.0 units from HIST_Sub

5. Substitutions	

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.
C.	Students are expected to take courses from HIST 300/6.0-329/6.0 in their second year.

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	(6.0 units)		
A.	6.0 units	from	HIST 121/6.0; HIST 122/6.0; HIST 124/6.0; HIST 125/6.0; BISC 100/3.0; BISC 101/3.0

2. Option	(24.0 units)		
A.	18.0 units	from	HIST at the 200 level or above
B.	6.0 units	from	HIST at the 100 or 200 level

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Minimum 6.0 units from HIST_Canadian		

5. Substitutions			

6. Notes			
A.	It is recommended that all Option Courses be at the 200 level or above.		

History Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

HIST_Canadian

Canadian History

HIST 124/6.0; HIST 208/3.0; HIST 209/3.0; HIST 210/3.0; HIST 224/3.0; HIST 242/3.0; HIST 256/3.0; HIST 258/3.0; HIST 260/6.0; HIST 261/3.0; HIST 269/3.0; HIST 279/3.0; HIST 280/6.0; HIST 309/6.0; HIST 312/6.0; HIST 313/6.0; HIST 324/6.0; HIST 340/9.0; HIST 359/9.0; HIST 390/4.5 (FW 2016-17); HIST 391/9.0; *HIST 393/3.0* (Winter 2011); *HIST 394/4.5*; HIST 401/4.5; HIST 416/4.5; HIST 425/9.0; HIST 431/4.5; HIST 433/9.0; HIST 436/4.5; HIST 437/9.0; HIST 458/9.0; HIST 467/9.0; HIST 476/9.0; HIST 481/9.0

HIST_Subs

History Substitutions

CLST 101/6.0; CLST 102/3.0; CLST 103/3.0; CLST 129/6.0; CLST 200/3.0; CLST 201/3.0; CLST 206/3.0; CLST 207/3.0; CLST 208/3.0; CLST 321/3.0; *CLST 330/3.0*; *CLST 331/3.0*; CLST 340/3.0; CLST 341/3.0; CLST 343/3.0; DEVS 305/6.0; IDIS 304/3.0; IDIS 305/3.0; *INTS 320/3.0*; *HLTH 239/3.0*; LLCU 320/3.0; PHIL 201/3.0

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 120.0 units (114.0 units for students admitted prior to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(42.0 units)		
A.	6.0 units	in	HLTH 101/3.0 and HLTH 102/3.0
B.	6.0 units	in	PSYC 100/6.0
C.	6.0 units	in	ANAT 101/3.0 and KNPE 125/3.0
D.	6.0 units	in	HLTH 205/3.0 and HLTH 252/3.0
E.	3.0 units	from	KNPE 251/3.0 or STAT_Options
F.	9.0 units	in	HLTH 305/3.0; HLTH 315/3.0, HLTH 323/3.0
G.	6.0 units	in	HLTH 415/6.0

2. Option	(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	(0.0 units)		

4. Additional Requirements			

5. Substitutions			
A.	ANAT 100/3.0 may be substituted for ANAT 101/3.0.		

6. Notes			
A.			

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 120.0 units (114.0 units for students admitted *prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(27.0 units)		
A.	6.0 units	in	HLTH 101/3.0 and HLTH 102/3.0
B.	6.0 units	in	ANAT 101/3.0 and KNPE 125/3.0
C.	6.0 units	in	HLTH 205/3.0 and HLTH 252/3.0
D.	3.0 units	from	KNPE 251/3.0 or STAT_Options
E.	6.0 units	in	HLTH 305/3.0 and HLTH 315/3.0

2. Option	(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	(6.0 units)		
A.	6.0 units	in	PSYC 100/6.0

4. Additional Requirements			

5. Substitutions			
A.	ANAT 100/3.0 may be substituted for ANAT 101/3.0.		

6. Notes			
A.			

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	(12.0 units)		
A.	6.0 units	in	HLTH 101/3.0 and HLTH 102/3.0
B.	3.0 units	in	ANAT 101/3.0
C.	3.0 units	in	HLTH 205/3.0

2. Option	(18.0 units)		
A.	3.0 units	from	HLTH_Gen/Min_Options at the 300 level or above
B.	15.0 units	from	HLTH_Gen/Min_Options at the 200 level or above

3. Supporting	(6.0 units)		
A.	6.0 units	in	PSYC 100/6.0

4. Additional Requirements			

5. Substitutions			
A.	ANAT 100/3.0 may be substituted for ANAT 101/3.0.		

6. Notes			
A.			

Health Studies Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

HLTH_Major_Options

Option Courses in the Health Major Plan

DEVS 320/3.0;

ECON 243/3.0;

ENSC 420/3.0;

GPHY 225/3.0; GPHY 229/3.0; GPHY 336/3.0; GPHY 339/3.0; GPHY 349/3.0;

HLTH 200/3.0; HLTH 230/3.0; HLTH 235/3.0; HLTH 237/3.0; HLTH 270/3.0; HLTH 300/3.0; *HLTH 325/3.0*; HLTH

331/3.0; HLTH 332/3.0; HLTH 333/3.0; HLTH 334/3.0; HLTH 350/3.0; HLTH 352/3.0; HLTH 397/3.0; HLTH 401/3.0;

HLTH 402/3.0; HLTH 403/3.0; HLTH 404/3.0; HLTH 430/3.0; HLTH 434/3.0; HLTH 435/3.0; HLTH 445/3.0; HLTH

455/3.0; HLTH 456/3.0; HLTH 491/3.0; HLTH 493/3.0; HLTH 495/3.0; HLTH 497/3.0; HLTH 595/6.0;

KNPE 225/3.0; *KNPE 253/3.0*; KNPE 265/3.0; *KNPE 333/3.0*; KNPE 335/3.0; KNPE 336/3.0; KNPE 337/3.0; KNPE

365/3.0; KNPE 400/3.0; KNPE 433/3.0; KNPE 436/3.0

LLCU 327/3.0;

NURS 240/3.0;

PHIL 201/3.0; PHIL 203/3.0; PHIL 301/3.0;

PSYC 332/3.0

HLTH_Medial_Options

Option Courses in the Health Medial Plan

DEVS 320/3.0;

ECON 243/3.0;

ENSC 420/3.0;

GPHY 225/3.0; GPHY 229/3.0; GPHY 336/3.0; GPHY 339/3.0; GPHY 349/3.0;

HLTH 200/3.0; HLTH 230/3.0; HLTH 235/3.0; HLTH 237/3.0; HLTH 270/3.0; HLTH 300/3.0; HLTH 323/3.0; *HLTH*

325/3.0; HLTH 331/3.0; HLTH 332/3.0; HLTH 333/3.0; HLTH 334/3.0; HLTH 350/3.0; HLTH 352/3.0; HLTH 397/3.0;

HLTH 401/3.0; HLTH 402/3.0; HLTH 403/3.0; HLTH 404/3.0; HLTH 445/3.0; HLTH 455/3.0;

KNPE 225/3.0; *KNPE 253/3.0*; KNPE 265/3.0; *KNPE 333/3.0*; KNPE 335/3.0; KNPE 336/3.0; KNPE 337/3.0; KNPE

365/3.0; KNPE 400/3.0; KNPE 433/3.0; KNPE 436/3.0;

LLCU 327/3.0;

NURS 240/3.0;

PHIL 201/3.0; PHIL 203/3.0; PHIL 301/3.0;

PSYC 332/3.0

HLTH_Gen/Min_Options

Option Courses in the Health Minor/General Plan

ECON 243/3.0;

GPHY 225/3.0; GPHY 229/3.0; GPHY 349/3.0;

HLTH 200/3.0; HLTH 230/3.0; HLTH 235/3.0; HLTH 237/3.0; HLTH 270/3.0; HLTH 305/3.0; HLTH 315/3.0; HLTH

323/3.0; *HLTH 325/3.0*; HLTH 331/3.0; HLTH 332/3.0; HLTH 333/3.0; HLTH 334/3.0; HLTH 350/3.0; HLTH 397/3.0;

HLTH 401/3.0; HLTH 402/3.0; HLTH 403/3.0; HLTH 404/3.0;

KNPE 225/3.0; *KNPE 253/3.0*; KNPE 265/3.0; KNPE 335/3.0; KNPE 365/3.0; KNPE 433/3.0;

LLCU 327/3.0;

NURS 240/3.0;

PHIL 201/3.0; PHIL 203/3.0; PHIL 301/3.0;

PSYC 332/3.0

STAT_Options

Statistic Course Options

BIOL 243/3.0; CHEE 209/3.0; COMM 162/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0; NURS 323/3.0; POLS

385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0

Indigenous Studies – Minor (Arts)

INDG-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.

Indigenous Studies – General (Arts) – Bachelor of Arts

INDG-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	(6.0 units)		
A.	6.0 units	in	DEVS 220/3.0 and DEVS 221/3.0
2. Option	(24.0 units)		
A.	12.0 units	from	INDG_Options at the 200-level or above
B.	12.0 units	from	INDG_Options
3. Supporting	(0.0 units)		
4. Additional Requirements			
5. Substitutions			
6. Notes			
A.	Courses with significant Indigenous content may be approved for inclusion in this degree program with permission of the Department of Languages, Literatures, and Cultures.		

Indigenous Studies Course List

The following list contains courses offered through several Departments. Students are encouraged to consult course outlines and course descriptions for more information. In accordance with Academic Regulation 2.5 (Access to Classes), students do not have enrolment priority in all of these courses. Access to courses at the 300 and 400 level may only be available to students who are completing a Major Plan in the corresponding discipline.

INDG_Options

Options in the Indigenous Studies Plan

ANSH 101/3.0; ANSH 102/3.0;
ARTH 231/3.0; ARTH 232/3.0; ARTH 248/3.0; ARTH 272/3.0; ARTH 348/3.0; ARTH 372/3.0;
BIOL 319/3.0; BIOL 421/3.0; BIOL 422/3.0;
DEVS 100/6.0; DEVS 320/3.0;
DRAM 303/3.0; DRAM 319/3.0;
ECON 244/3.0;
ENGL 480/6.0; ENGL 481/3.0; ENGL 482/3.0;
FILM 388/3.0;
GNDS 212/3.0; GNDS 340/3.0; GNDS 375/3.0; GNDS 432/6.0;
GPHY 351/3.0; GPHY 368/3.0;
HIST 124/6.0; HIST 207/3.0; HIST 208/3.0; HIST 256/3.0; HIST 313/6.0; HIST 324/6.0; HIST 335/9.0; HIST 436/4.5;
HIST 442/4.5; HIST 455/9.0; HIST 461/4.5; HIST 467/9.0;
HLTH 101/3.0;
INDG 301/3.0;
INTS 307/3.0;
INUK 101/3.0;
LAW 202/3.0;
LLCU 101/3.0; LLCU 102/3.0; LLCU 270/3.0; LLCU 301/3.0; LLCU 302/3.0; LLCU 332/3.0; LLCU 370/3.0;
MOHK 101/3.0; MOHK 102/3.0;
MUSC 289/3.0;
POLS 320/3.0; POLS 347/3.0;
RELS 227/3.0

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 120.0 units (*114.0 units for students admitted prior to September 2017*), 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 2016-17 academic year. Please see the 2009-10 Arts and 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	(12.0 units)		
A.	6.0 units	from	[(ITLN 111/3.0 or <i>ITLN P10/3.0</i>) and ITLN 112/3.0] or <i>ITLN 101/6.0</i>
B.	6.0 units	in	ITLN 204/3.0 and 205/3.0

2. Option	(18.0 units)		
A.	18.0 units	from	ITLN; ITLN_Sub

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

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 1.A. , 1.B. , and 1.C. These would be replaced with ITLN options.
B.	To register in ITLN 111/3.0 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.
C.	Courses with significant Italian content may be approved for inclusion in this degree program with permission of the Department of Languages, Literatures, and Cultures.

Italian Course List

The following list 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 Open Enrolment period, and then only if space permits.

ITLN_Sub

Italian Substitutions

ARTH 214/3.0; ARTH 215/3.0; ARTH 312/3.0; ARTH 345/3.0; ARTH 347/3.0; ARTH 369/3.0; ARTH 370/3.0; CLST 201/3.0; FILM 305/3.0; FILM 303/3.0; HIST 255/3.0; LLCU 110/3.0; LLCU 111/3.0; LLCU 200/3.0; LLCU 201/3.0; LLCU 214/3.0; LLCU 301/3.0; LLCU 316/3.0; LLCU 320/3.0; LLCU 339/3.0; MUSC 286/3.0; *MUSC 287/3.0*; MUTH 232/3.0

Jewish Studies – Minor (Arts)

JWST-Y

Subject: Administered by the Jewish Studies Program, 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 a Bachelor of Arts Degree (Honours).

Jewish Studies – General (Arts) – Bachelor of Arts

JWST-G-BA

Subject: Administered by the Jewish Studies Program, 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	(6.0 units)		
A.	6.0 units	from	HEBR

2. Option	(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	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	Course choices, including special studies, independent study and study abroad courses must be approved by the Director of the Jewish Studies Program.

Jewish Studies Course List

The following list 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 Open Enrolment period, and then only if space permits.

JWST_Options

Jewish Studies Options

JWST 301/3.0; JWST 302/3.0; JWST 501/3.0; JWST 502/3.0

CLST 208/6.0

GNDS 365/3.0; GNDS 465/6.0

HEBR 190/6.0; *HEBR 191/6.0*; HEBR 192/3.0; HEBR 193/3.0; HEBR 292/3.0; HEBR 294/3.0; HEBR 295/3.0; HEBR 301/3.0; HEBR 393/3.0; HEBR 502/3.0

HIST 221/3.0; HIST 222/3.0; *HIST 293/6.0*; HIST 294/3.0; HIST 295/3.0; HIST 306/6.0; HIST 339/4.5; HIST 344/4.5;

IDIS 308/6.0

PHIL 267/3.0; PHIL 367/3.0; PHIL 441/6.0

RELS 210/3.0; RELS 228/3.0; RELS 234/3.0; RELS 334/3.0; RELS 398/6.0

Plans of study for students who were admitted to a Kinesiology Plan after May 1, 2015

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 will lead to a Bachelor of Science Degree.

1. Core	(33.0 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 254/3.0, KNPE 255/3.0, KNPE 261/3.0, KNPE 265/3.0
C.	3.0 units	from	KNPE 251/3.0 or STAT_Options

2. Option	(3.0 units)		
A.	3.0 units	from	KNPE; HLTH at the 300 level or above

3. Supporting	(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			

5. Substitutions			

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 <u>not</u> be added to a Major to form a Major-Minor Plan combination.		
C.	This Plan, unlike most other General (Science) Plans, may <u>not</u> be requested as a course of study.		

Plans of study for students who were admitted to a Kinesiology Plan after May 1, 2015

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		(51.0 units)	
A.	12.0 units	in	HLTH 101/3.0, KNPE 125/3.0, 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 STAT_Options
D.	18.0 units	in	KNPE 225/3.0, KNPE 227/3.0, KNPE 254/3.0, 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
G.	3.0 units	In	KNPE 400/3.0

2. Option		(51.0 units)	
A.	3.0 units	from	KINE_Exercise_Options
B.	3.0 units	from	KINE_Socio-Cultural_Options
C.	3.0 units	from	KINE_Health_Promo_Options
D.	18.0 units	from	KNPE; HLTH
E.	3.0 units	from	ASC_Science_excluding_KNPE_HLTH at the 300 level or above
F.	9.0 units	from	ASC_Science_excluding_KNPE_HLTH at the 200 level or above
G.	12.0 units	from	ASC_Science_excluding_KNPE_HLTH

3. Supporting		(0.0 units)	

4. Additional Requirements	
A.	6.0 units in the Plan must be selected from KINE_Labs. No more than 3.0 units from KNPE 331/3.0 and KNPE 345/3.0.
B.	6.0 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.	If an approved course is taken in another department in place of HLTH 252/3.0 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.	Students interested in being accepted into the Exercise, Disability and Aging "mini-stream" will apply at the end of second year for the limited number of spaces that are available.
D.	Students in the KINE-P-BSH Plan are permitted to complete only one "mini-stream" towards the requirements for their degree plan.

Kinesiology Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

ASC_Science_excluding_KNPE_HLTH

Natural and Physical Science Courses

ANAT;

BCHM;

BIOL;

BIOM;

BMED 270/3.0; BMED 370/3.0; BMED 372/3.0; BMED 380/3.0; BMED 381/3.0; BMED 383/3.0; BMED 384/3.0;

BMED 470/3.0; BMED 473/3.0; BMED 480/3.0; *BMED 482/3.0*; BMED 483/3.0;

CANC;

CHEE 209/3.0;

CHEM;

CISC;

COGS;

COMM 162/3.0;

COMP;

CRSS;

DDHT;

ECON 250/3.0;

ENSC 201/3.0; ENSC 301/3.0; ENSC 307/3.0; ENSC 320/3.0; ENSC 407/3.0; ENSC 425/3.0; ENSC 471/3.0; ENSC

480/3.0; ENSC 481/3.0;

EPID;

GEOL;

GLPH 472/3.0;

GPHY_Physical;

GPHY_Tech/Methods;

LISC;

MATH;

MICR;

NSCI;

NURS 323/3.0; NURS 324/3.0;

PATH;

PHAR;

PHGY;

PHYS;

POLS 385/3.0;

PSYC 100/6.0; PSYC 101/3.0; PSYC 103/3.0; PSYC 202/3.0; PSYC 203/3.0; PSYC 205/3.0; PSYC 215/3.0; PSYC

221/3.0; PSYC 271/3.0, *PSYC 300/6.0*; PSYC 301/3.0; PSYC 302/3.0; PSYC 450/3.0; *PSYC 475/3.0*;

PSYC_Cluster_A;

SOCY 210/3.0; SOCY 211/3.0;

STAT

KINE_Exercise_Options

Applied Exercise Science Options

KNPE 253/3.0; KNPE 327/3.0; *KNPE 353/3.0*; KNPE 339/3.0; KNPE 354/3.0; KNPE 355/3.0; KNPE 425/3.0; *KNPE 427/3.0*; KNPE 429/3.0; KNPE 439/3.0; KNPE 450/3.0; KNPE 454/3.0; KNPE 455/3.0; KNPE 459/3.0; KNPE 493/3.0

KINE_Health_Promo_Options***Physical Activity, Epidemiology and Health Promotion Options***

HLTH 205/3.0 (before 2016-17); HLTH 230/3.0; HLTH 237/3.0; HLTH 305/3.0; HLTH 323/3.0; HLTH 331/3.0; HLTH 332/3.0; HLTH 350/3.0; HLTH 401/3.0; HLTH 402/3.0; HLTH 403/3.0; HLTH 404/3.0; *HLTH 405/3.0*; HLTH 415/6.0; HLTH 435/3.0; HLTH 445/3.0; HLTH 455/3.0; HLTH 493/3.0; KNPE 335/3.0; KNPE 433/3.0; KNPE 463/6.0; KNPE 495/3.0

KINE_Labs***Kinesiology Laboratory Options***

HLTH 352/3.0; HLTH 595/3.0; KNPE 327/3.0; KNPE 331/3.0; KNPE 345/3.0; KNPE 352/3.0; *KNPE 353/3.0*; KNPE 355/3.0; KNPE 365/3.0; KNPE 450/3.0; KNPE 454/3.0; KNPE 463/6.0; KNPE 595/3.0

KINE_Professional_Options***Professional/Applied Options***

KNPE 300/3.0; KNPE 330/4.5; KNPE 331/3.0; *KNPE 333/3.0*; KNPE 336/3.0; KNPE 337/3.0; *KNPE 343/3.0*; KNPE 345/3.0; KNPE 346/4.5; KNPE 430/4.5; KNPE 436/3.0; KNPE 446/4.5

KINE_Socio-Cultural_Options***Psychology and Socio-Cultural Studies of Physical Activity and Health Options***

HLTH 235/3.0; HLTH 315/3.0; HLTH 333/3.0; HLTH 334/3.0; HLTH 350/3.0; HLTH 402/3.0; HLTH 404/3.0; HLTH 430/3.0; HLTH 434/3.0; HLTH 445/3.0; HLTH 455/3.0; HLTH 495/3.0; KNPE 203/3.0; KNPE 237/3.0; KNPE 363/3.0; KNPE 365/3.0; KNPE 367/3.0; KNPE 465/3.0; *KNPE 469/3.0*; KNPE 473/3.0

STAT_Options***Statistic Course Options***

BIOL 243/3.0; CHEE 209/3.0; COMM 162/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0; NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0

World Language Studies – Minor (Arts)

LANG-Y

Subject: Administered by the Department of Languages, Literatures and Cultures (Arabic, Chinese, German, Hebrew, Italian, Japanese, Spanish languages) in partnership with the Departments of Classics (Greek and Latin languages) and French Studies (French 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 Department of Languages, Literatures and Cultures (Arabic, Chinese, German, Hebrew, Italian, Japanese, Spanish languages) in partnership with the Departments of Classics (Greek and Latin languages) and French Studies (French 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	(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	(6.0 units)		
A.	6.0 units	from	LANG_Languages; LANG_Concepts; LLCU

3. Supporting	(0.0 units)		

4. Additional Requirements	
A.	A maximum 6.0 units may be at the P level.
B.	At least two different languages from the LANG_Languages list must be chosen.

5. Substitutions	

6. Notes	

World Language Studies Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

LANG_Concepts

Conceptual courses meet at least one of the following criteria: Competence in cultural criticism (studies in globalization, diversity and inclusivity), linguistics, psycholinguistics, language acquisition and communicative competence.

CLST 309/3.0; FRST 290/3.0 (Formerly *IDIS 290/3.0*); *HEBR 135/3.0*; IDIS 290/3.0; *IDIS 201/6.0*; INDG 301/3.0; INTS 221/3.0; INTS 306/3.0; INTS 307/3.0; *INTS 320/3.0*; INTS 321/3.0; *LANG P10/3.0*; *LANG P11/3.0*; LANG 101/3.0; LANG 102/3.0; *LANG 120/3.0*; *LANG 121/3.0*; LANG 201/3.0; LANG 202/3.0; LING 100/6.0; LING 202/3.0; LING 205/3.0; PSYC 321/3.0

LANG_Languages

Courses must develop competence in at least one of the following skills: reading, writing, or speaking and listening in a language other than English.

ANSH; ARAB; CHIN; FREN; GRMN; GREK; HEBR; INUK; ITLN; JAPN; LATN; LLCU 101/3.0; LLCU 102/3.0; MOHK; PORT 103/3.0; PORT 104/3.0; SPAN

Except:

GREK 430/6.0; GRMN 181/3.0; GRMN 353/3.0; HEBR 135/3.0

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 120.0 units (*114.0 units for students admitted prior to September 2017*), 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. Please see the 2014-15 Arts and Science *Calendar* for details of this Plan.

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 120.0 units (*114.0 units for students admitted prior to September 2017*), 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. Please see the 2014-15 Arts and Science *Calendar* for details of this Plan.

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.

This Plan is currently under academic review. No new students will be admitted to the Plan. Please see the 2014-15 Arts and Science *Calendar* for details of this Plan.

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.

This Plan is currently under academic review. No new students will be admitted to the Plan. Please see the 2014-15 Arts and Science *Calendar* for details of this Plan.

Liberal Studies – Minor (Arts)

LIBS-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.

Liberal Studies – General (Arts) – Bachelor of Arts

LIBS-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	(9.0 units)		
A.	3.0 units	in	LIBS 100/3.0
B.	6.0 units	in	LIBS 300/6.0

2. Option	(21.0 units)		
A.	6.0 units	from	LIBS_Scientific_Inquiry
B.	6.0 units	from	LIBS_Insights
C.	6.0 units	from	LIBS_Perspectives
D.	3.0 units	from	LIBS_Academic_Writing

3. Supporting	(0.0 units)		

4. Additional Requirements	
A.	A minimum of 12.0 units at the 200 level or above.

5. Substitutions	

6. Notes	

Liberal Studies Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

LIBS_Academic_Writing

Academic Writing

WRIT 120/3.0; WRIT 125/3.0; WRIT 225/3.0; WRIT 265/3.0; WRIT 290/3.0

LIBS_Insights

Insights into Contemporary Society and Culture

DEVS 100/6.0; DEVS 220/3.0; DEVS 221/3.0; DEVS 230/3.0; DEVS 240/3.0; DRAM 205/3.0; DRAM 211/3.0; FILM 240/3.0; FILM 260/3.0; FILM 340/3.0; FRST 290/3.0; GNDS 120/3.0; GNDS 125/3.0; GPHY 101/3.0; LLCU 209/3.0; MUSC 171/3.0; PHIL 111/6.0; PHIL 203/3.0; PHIL 240/3.0; PHIL 259/3.0; SOCY 122/6.0

LIBS_Perspectives

Critical Perspectives on History

ARTH 250/3.0; ARTH 354/3.0; CLST 205/3.0; ENGL 100/6.0; ENGL 223/3.0; ENGL 237/3.0; HIST 124/6.0; HIST 125/6.0; HIST 200/3.0; HIST 207/3.0; HIST 252/3.0; HIST 260/6.0; HIST 272/6.0; HIST 280/6.0; MUSC 102/3.0; RELS 131/6.0

LIBS_Scientific_Inquiry

Scientific Inquiry and Reasoning

ASTR 101/3.0; BIOL 102/3.0; BIOL 103/3.0; BIOL 111/3.0; BIOL 319/3.0; BIOL 330/3.0; CHEM 113/3.0; CHEM 114/3.0; CHEM 281/3.0; CHEM 285/3.0; CISC 101/3.0; CISC 121/3.0; ECON 111/3.0; ECON 112/3.0; ECON 223/3.0; ECON 243/3.0; MATH 121/6.0; PHYS P20/3.0; PHYS 118/6.0; PSYC 100/6.0; PSYC 205/3.0; PSYC 235/6.0; PSYC 236/3.0; PSYC 241/3.0; PSYC 251/3.0; PSYC 271/3.0; PSYC 333/3.0; PSYC 370/3.0; PSYC 397/3.0; STAT 263/3.0

Plans of study for students who were admitted to a Linguistics Plan after May 1, 2014

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 120.0 units (114.0 units for students admitted *prior* to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(24.0 units)		
A.	6.0 units	in	LING 100/6.0
B.	3.0 units	in	LING 202/3.0
C.	6.0 units	in	LING 310/3.0 and LING 320/3.0
D.	6.0 units	in	LING 330/3.0 and LING 340/3.0
E.	3.0 units	in	LING 415/3.0

2. Option	(36.0 units)		
A.	3.0 units	from	LING at the 300 level or above
B.	12.0 units	from	LANG_Languages
C.	21.0 units	from	LING; LANG_Languages; LING_Maj_Options

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Only one of LING 501/3.0 or LING 505/9.0 may be counted towards this Plan.		

5. Substitutions			

6. Notes			
A.	Students should note that many of the LING_Maj_Option courses, particularly in CISC, FREN, PHIL, PSYC, SOCY require prerequisites.		
B.	Course prerequisites for Option Courses should be taken early in the program (in first and second year).		

Plans of study for students who were admitted to a Linguistics Plan after May 1, 2014

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	(21.0 units)		
A.	6.0 units	in	LING 100/6.0
B.	3.0 units	in	LING 202/3.0
C.	6.0 units	in	LING 310/3.0 and LING 320/3.0
D.	6.0 units	in	LING 330/3.0 and LING 340/3.0

2. Option	(9.0 units)		
A.	6.0 units	from	LANG_Languages
B.	3.0 units	from	LING at the 200, 300, or 400 level; LANG_Languages; LING_Min_Options

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	Students should note that many of the LING_Min_Option courses, particularly in CISC, FREN, PHIL, PSYC, SOCY require prerequisites.
B.	Course prerequisites for Option Courses should be taken early in the program (in first and second year).

Linguistics Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

LANG_Languages

Courses must develop competence in at least one of the following skills: reading, writing, or speaking and listening in a language other than English.

ANSH; ARAB; CHIN; FREN; GRMN; GREK; HEBR; INUK; ITLN; JAPN; LATN; LLCU 101/3.0; LLCU 102/3.0; MOHK; PORT 103/3.0; PORT 104/3.0; SPAN

Except:

GREK 430/6.0; *GRMN 181/3.0; GRMN 353/3.0; HEBR 135/3.0*

LING_Maj_Options

Options in the Linguistics Major Plan

CISC 223/3.0; CISC 260/3.0; CISC 465/3.0; CISC 481/3.0; COGS 201/3.0; COGS 300/3.0; ENGL 206/3.0; 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; IDIS 201/6.0; LLCU 110/3.0; LLCU 200/3.0; LLCU 201/3.0; PHIL 359/3.0; PHIL 361/3.0; PHIL 362/3.0; PHIL 459/3.0; PSYC 205/3.0; PSYC 215/3.0; PSYC 221/3.0; PSYC 251/3.0; PSYC 271/3.0; PSYC 305/6.0; PSYC 321/3.0; PSYC 352/3.0; PSYC 353/3.0; PSYC 370/3.0; PSYC 371/3.0; PSYC 452/3.0; *PSYC 457/3.0; PSYC 485/3.0; SPAN 410/3.0**

LING_Min_Options

Options in the Linguistics Minor/General Plan

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; IDIS 201/6.0; LLCU 110/3.0; LLCU 200/3.0; LLCU 201/3.0; PHIL 359/3.0; PSYC 321/3.0; PSYC 353/3.0; PSYC 452/3.0; *PSYC 457/3.0; PSYC 485/3.0; SPAN 410/3.0**

Plans of study for students who were admitted to a Life Sciences Plan prior to May 1, 2016

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	(30.0 units)		
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
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	from	PHGY 215/3.0 or PHGY 216/3.0 or <i>PHGY 210/6.0</i> or <i>PHGY 214/6.0</i>

2. Option	(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	(12.0 units)		
A.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0
B.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)

4. Additional Requirements			
A.	No more than 15.0 units chosen from LISC_List_A may be in PSYC or BIOL.		

5. Substitutions			

6. Notes			
A.	Students wishing to take upper-year PSYC courses as options should take PSYC 100/6.0 as an elective.		
B.	Students in the LISC Specialization Plan will be given priority for all 499 courses (ANAT 499/12.0, CANC 499/12.0, EPID 499/12.0, LISC 499/12.0, MICR 499/12.0, NSCI 499/12.0, PATH 499/12.0, PGHY 499/12.0, and PHAR 499/12.0). Permission to take any of these courses must be approved by the Associate Dean (Life Sciences and Biochemistry).		

Plans of study for students who were admitted to a Life Sciences Plan prior to May 1, 2016

Life Sciences – Minor (Science)

LISC-Z

Subject: Administered by the Associate Dean, Life Sciences and Biochemistry

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.

Life Sciences – General (Science) – Bachelor of Science

LISC-G-BSC

Subject: Administered by the Associate Dean, Life Sciences and Biochemistry

Plan: Consists of 48.0 units as described below.

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

1. Core	(24.0 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 113/3.0 and CHEM 114/3.0)
C.	3.0 units	in	CHEM 281/3.0
D.	3.0 units	from	PHAR 230/3.0 or PHAR 270/3.0
E.	6.0 units	from	PHGY 215/3.0 or PHGY 216/3.0 or <i>PHGY 210/6.0</i> or <i>PHGY 214/6.0</i>

2. Option	(18.0 units)		
A.	12.0 units	from	LISC_List_B at the 200 level or above
B.	6.0 units	from	LISC_List_B

3. Supporting	(0.0 units)		

4. Additional Requirements (6.0 units)			
A.	Minimum of an additional 6.0 units in the physical and natural sciences or mathematics, from ASC_Science.		
B.	No more than 12.0 units in BIOL or 6.0 units in KINE, KNPE, NURS, PHED and 6.0 units in BIOL may be used from LISC_List_B.		

5. Substitutions			

6. Notes			

Plans of study for students who were admitted to a Life Sciences Plan prior to May 1, 2016

Life Sciences – 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 – 39.0 units in one Sub-Plan, 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	(60.0 units)		
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
C.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
D.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0
E.	6.0 units	in	ANAT 215/3.0 and ANAT 216/3.0
F.	6.0 units	in	BIOL 205/3.0 and BCHM 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	from	PHGY 215/3.0 or PHGY 216/3.0 or <i>PHGY 210/6.0</i> or <i>PHGY 214/6.0</i>
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. Sub-Plans	(27.0 - 39.0 units)	
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A. BIOMEDICAL DISCOVERY (BMDS-O) (36.0 units)			
i. Core (21.0 units)			
a.	9.0 units	in	BCHM 310/9.0
b.	3.0 units	in	PHAR 450/3.0
c.	9.0 units	from	ANAT 499/12.0; EPID 499/12.0; LISC 499/12.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHGY 499/12.0; PHAR 499/12.0
ii. Option (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

B. BIOMEDICAL SCIENCES (BMSS-O) (27.0 units)			
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i. Core	(6.0 units)		
a.	6.0 units	from	(BCHM 315/3.0 and BCHM 316/3.0) or BCHM 310/9.0

ii. Option	(21.0 units)		
a.	12.0 units	from	LISC_List_D; LISC_Labs_E at the 400 level or above
b.	9.0 units	from	LISC_List_D; LISC_Labs_E

iii. Additional Requirements			
a.	6.0 units must be from LISC_Labs_E		

C. CANCER RESEARCH (CANC-O) (39.0 units)

i. Core	(27.0 units)		
a.	9.0 units	in	BCHM 310/9.0
b.	6.0 units	in	CANC 440/3.0 and <i>CANC 497/3.0</i>
c.	3.0 units	in	PHAR 450/3.0
d.	9.0 units	in	CANC 499/12.0

ii. Option	(12.0 units)		
a.	6.0 units	from	LISC_List_F at the 400 level
b.	6.0 units	from	LISC_List_F

D. CARDIORESPIRATORY SCIENCE (CRSS-O) (39.0 units)

i. Core	(30.0 units)		
a.	9.0 units	in	BCHM 310/9.0
b.	3.0 units	in	PHGY 355/3.0
c.	6.0 units	from	CRSS 453/3.0 and (CRSS 454/3.0 or <i>LISC 454/3.0</i> or CRSS 456/3.0)
d.	3.0 units	in	PHAR 450/3.0
e.	9.0 units	from	ANAT 499/12.0; PATH 499/12.0; PHAR 499/12.0; PHGY 499/12.0

ii. Option	(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

E. DRUG DEVELOPMENT AND HUMAN TOXICOLOGY (DDHT-O) (39.0 units)

i. Core	(30.0 units)		
a.	9.0 units	in	BCHM 310/9.0
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 499/12.0; EPID 499/12.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHGY 499/12.0; PHAR 499/12.0

ii. Option	(9.0 units)		
a.	3.0 units	from	LISC_List_J
b.	6.0 units	from	LISC_List_K at the 200 level or above

F. NEUROSCIENCE (NSCI-O) (39.0 units)

i. Core	(24.0 units)		
a.	9.0 units	in	BCHM 310/9.0
b.	3.0 units	from	NSCI 323/3.0; NSCI 324/3.0; <i>NSCI 322/3.0</i>
c.	3.0 units	in	PHAR 450/3.0
d.	9.0 units	in	NSCI 499/12.0

ii. Option	(15.0 units)		
a.	6.0 units	from	LISC_List_L at the 400 level
b.	9.0 units	from	LISC_List_L

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Students may take no more than one course from: ANAT 499/12.0 or CANC 499/12.0 or EPID 499/12.0 or LISC 499/12.0 or MICR 499/12.0 or NSCI 499/12.0 or PATH 499/12.0 or PHGY 499/12.0 or PHAR 499/12.0.		

5. Substitutions			

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.		

Plans of study for students who were admitted to a Life Sciences Plan in May, 2016

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	(27.0 units)		
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
C.	3.0 units	in	MICR 221/3.0
D.	6.0 units	in	CHEM 281/3.0 and CHEM 282/3.0
E.	6.0 units	from	PHGY 215/3.0 or PHGY 216/3.0 or <i>PHGY 210/6.0</i> or <i>PHGY 214/6.0</i>

2. Option	(33.0 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.	9.0 units	from	LISC_List_A at the 200 level or above
D.	6.0 units	from	LISC_List_A

3. Supporting	(12.0 units)		
A.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0
B.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)

4. Additional Requirements	
A.	No more than 15.0 units chosen from LISC_List_A may be in PSYC or BIOL.

5. Substitutions	

6. Notes	
A.	Students wishing to take upper-year PSYC courses as options should take PSYC 100/6.0 as an elective.
B.	Students wishing to take 300- and 400- level BIOL courses as options must first take the prerequisite BIOL 205/3.0 as option under 2.C.
C.	Students in the LISC Specialization Plan will be given priority for all 499 courses (ANAT 499/12.0, CANC 499/12.0, EPID 499/12.0, LISC 499/12.0, MICR 499/12.0, NSCI 499/12.0, PATH 499/12.0, PGHY 499/12.0, and PHAR 499/12.0). Permission to take any of these courses must be approved by the Associate Dean (Life Sciences and Biochemistry).

Life Sciences – Minor (Science)

LISC-Z

Subject: Administered by the Associate Dean, Life Sciences and Biochemistry

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.

Life Sciences – General (Science) – Bachelor of Science

LISC-G-BSC

Subject: Administered by the Associate Dean, Life Sciences and Biochemistry

Plan: Consists of 48.0 units as described below.

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

1. Core	(24.0 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 113/3.0 and CHEM 114/3.0)
C.	3.0 units	in	CHEM 281/3.0
D.	3.0 units	from	PHAR 230/3.0 or PHAR 270/3.0
E.	6.0 units	from	PHGY 215/3.0 or PHGY 216/3.0 or <i>PHGY 210/6.0 or PHGY 214/6.0</i>

2. Option	(18.0 units)		
A.	12.0 units	from	LISC_List_B at the 200 level or above
B.	6.0 units	from	LISC_List_B

3. Supporting	(0.0 units)		

4. Additional Requirements (6.0 units)			
A.	Minimum of an additional 6.0 units in the physical and natural sciences or mathematics, from ASC_Science.		
B.	No more than 12.0 units in BIOL or 6.0 units in KINE, KNPE, NURS, PHED and 6.0 units in BIOL may be used from LISC_List_B.		

5. Substitutions			

6. Notes			

Life Sciences – 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 57.0 core units and 27.0 – 42.0 units in one Sub-Plan, 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	(57.0 units)		
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
C.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
D.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0
E.	6.0 units	in	ANAT 215/3.0 and ANAT 216/3.0
F.	3.0 units	in	BCHM 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	from	PHGY 215/3.0 or PHGY 216/3.0 or <i>PHGY 210/6.0</i> or <i>PHGY 214/6.0</i>
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. Sub-Plans	(27.0 - 42.0 units)	

A. BIOMEDICAL DISCOVERY (BMDS-O) (39.0 units)			
i. Core	(24.0 units)		
a.	9.0 units	in	BCHM 310/9.0
b.	3.0 units	in	PHAR 450/3.0
c.	12.0 units	from	ANAT 499/12.0; EPID 499/12.0; LISC 499/12.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHGY 499/12.0; PHAR 499/12.0
ii. Option	(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

B. BIOMEDICAL SCIENCES (BMSS-O) (27.0 units)

i. Core	(6.0 units)		
a.	6.0 units	from	(BCHM 315/3.0 and BCHM 316/3.0) or BCHM 310/9.0

ii. Option	(21.0 units)		
a.	12.0 units	from	LISC_List_D; LISC_Labs_E at the 400 level or above
b.	9.0 units	from	LISC_List_D; LISC_Labs_E

iii. Additional Requirements			
a.	6.0 units must be from LISC_Labs_E		

C. CANCER RESEARCH (CANC-O) (42.0 units)

i. Core	(30.0 units)		
a.	9.0 units	in	BCHM 310/9.0
b.	6.0 units	in	CANC 440/3.0 and <i>CANC 497/3.0</i>
c.	3.0 units	in	PHAR 450/3.0
d.	12.0 units	in	CANC 499/12.0

ii. Option	(12.0 units)		
a.	6.0 units	from	LISC_List_F at the 400 level
b.	6.0 units	from	LISC_List_F

D. CARDIORESPIRATORY SCIENCE (CRSS-O) (42.0 units)

i. Core	(33.0 units)		
a.	9.0 units	in	BCHM 310/9.0
b.	3.0 units	in	PHGY 355/3.0
c.	6.0 units	from	CRSS 453/3.0 and (CRSS 454/3.0 or <i>LISC 454/3.0</i> or CRSS 456/3.0)
d.	3.0 units	in	PHAR 450/3.0
e.	12.0 units	from	ANAT 499/12.0; PATH 499/12.0; PHAR 499/12.0; PHGY 499/12.0

ii. Option	(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

E. DRUG DEVELOPMENT AND HUMAN TOXICOLOGY (DDHT-O) (42.0 units)

i. Core	(33.0 units)		
a.	9.0 units	in	BCHM 310/9.0
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.	12.0 units	from	ANAT 499/12.0; EPID 499/12.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHGY 499/12.0; PHAR 499/12.0

ii. Option	(9.0 units)		
a.	3.0 units	from	LISC_List_J
b.	6.0 units	from	LISC_List_K at the 200 level or above

F. NEUROSCIENCE (NSCI-O) (42.0 units)

i. Core	(27.0 units)		
a.	9.0 units	in	BCHM 310/9.0
b.	3.0 units	from	NSCI 323/3.0; NSCI 324/3.0; NSCI 322/3.0
c.	3.0 units	in	PHAR 450/3.0
d.	12.0 units	in	NSCI 499/12.0

ii. Option	(15.0 units)		
a.	6.0 units	from	LISC_List_L at the 400 level
b.	9.0 units	from	LISC_List_L

3. Supporting	(0.0 units)		

4. Additional Requirements	
A.	Students may take no more than one course from: ANAT 499/12.0 or CANC 499/12.0 or EPID 499/12.0 or LISC 499/12.0 or MICR 499/12.0 or NSCI 499/12.0 or PATH 499/12.0 or PHGY 499/12.0 or PHAR 499/12.0.

5. Substitutions	

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 wishing to take 300- and 400-level BIOL courses as options must first take the prerequisite BIOL 205/3.0 as an option.
C.	Students are able to take up to 9.0 units of approved BMED Options towards their LISC-P-BSH degree.

Plans of study for students who were admitted to a Life Sciences Plan after May 1, 2017

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	(30.0 units)		
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
C.	6.0 units	from	BCHM 218/3.0 and (MICR 221/3.0 or MICR 271/3.0)
D.	6.0 units	in	CHEM 281/3.0 and CHEM 282/3.0
E.	6.0 units	from	(PHGY 215/3.0 and PHGY 216/3.0) or <i>PHGY 210/6.0</i> or <i>PHGY 214/6.0</i>

2. Option	(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	(12.0 units)		
A.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0
B.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)

4. Additional Requirements			
A.	No more than 15.0 units chosen from LISC_List_A may be in PSYC or BIOL.		
B.	No more than 9.0 units from LISC_List_A may be BMED approved option courses.		

5. Substitutions			

6. Notes			
A.	Students wishing to take upper-year PSYC courses as options should take PSYC 100/6.0 as an elective.		
B.	Students wishing to take 300- and 400- level BIOL courses as options must first take the prerequisite BIOL 205/3.0 as option under 2.C.		
C.	Students in the LISC Specialization Plan will be given priority for all 499 courses (ANAT 499/12.0, CANC 499/12.0, EPID 499/12.0, LISC 499/12.0, MICR 499/12.0, NSCI 499/12.0, PATH 499/12.0, PGHY 499/12.0, and PHAR 499/12.0). Permission to take any of these courses must be approved by the Associate Dean (Life Sciences and Biochemistry).		

Plans of study for students who were admitted to a Life Sciences Plan after May 1, 2017

Life Sciences – Minor (Science)

LISC-Z

Subject: Administered by the Associate Dean, Life Sciences and Biochemistry

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.

Life Sciences – General (Science) – Bachelor of Science

LISC-G-BSC

Subject: Administered by the Associate Dean, Life Sciences and Biochemistry

Plan: Consists of 48.0 units as described below.

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

1. Core	(24.0 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 113/3.0 and CHEM 114/3.0)
C.	3.0 units	in	CHEM 281/3.0
D.	3.0 units	from	PHAR 230/3.0 or PHAR 270/3.0
E.	6.0 units	from	(PHGY 215/3.0 and PHGY 216/3.0) or PHGY 210/6.0 or PHGY 214/6.0

2. Option	(18.0 units)		
A.	12.0 units	from	LISC_List_B at the 200 level or above
B.	6.0 units	from	LISC_List_B

3. Supporting	(0.0 units)		

4. Additional Requirements (6.0 units)			
A.	Minimum of an additional 6.0 units in the physical and natural sciences or mathematics, from ASC_Science.		
B.	No more than 12.0 units in BIOL or 6.0 units in KINE, KNPE, NURS, PHED and 6.0 units in BIOL may be used from LISC_List_B.		

5. Substitutions			

6. Notes			

Plans of study for students who were admitted to a Life Sciences Plan after May 1, 2017

Life Sciences – 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 57.0 core units and 27.0 – 42.0 units in one Sub-Plan, 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	(57.0 units)		
A.	6.0 units	in	BIOL 102/3.0 and BIOL 103/3.0
B.	6.0 units	in	CHEM 112/6.0
C.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
D.	6.0 units	from	PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0
E.	6.0 units	in	ANAT 215/3.0 and ANAT 216/3.0
F.	3.0 units	in	BCHM 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	from	(PHGY 215/3.0 and PHGY 216/3.0) or <i>PHGY 210/6.0</i> or <i>PHGY 214/6.0</i>
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. Sub-Plans	(27.0 - 42.0 units)	

A. BIOMEDICAL DISCOVERY (BMDS-O) (39.0 units)			
i. Core	(24.0 units)		
a.	9.0 units	in	BCHM 310/9.0
b.	3.0 units	in	PHAR 450/3.0
c.	12.0 units	from	ANAT 499/12.0; EPID 499/12.0; LISC 499/12.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHGY 499/12.0; PHAR 499/12.0
ii. Option	(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

B. BIOMEDICAL SCIENCES (BMSS-O) (27.0 units)

i. Core	(6.0 units)		
a.	6.0 units	from	(BCHM 315/3.0 and BCHM 316/3.0) or BCHM 310/9.0

ii. Option	(21.0 units)		
a.	12.0 units	from	LISC_List_D; LISC_Labs_E at the 400 level or above
b.	9.0 units	from	LISC_List_D; LISC_Labs_E

iii. Additional Requirements			
a.	6.0 units must be from LISC_Labs_E		

C. CANCER RESEARCH (CANC-O) (39.0 units)

i. Core	(27.0 units)		
a.	9.0 units	in	BCHM 310/9.0
b.	3.0 units	in	CANC 440/3.0
c.	3.0 units	in	PHAR 450/3.0
d.	12.0 units	in	CANC 499/12.0

ii. Option	(12.0 units)		
a.	6.0 units	from	LISC_List_F at the 400 level
b.	6.0 units	from	LISC_List_F

D. CARDIORESPIRATORY SCIENCE (CRSS-O) (42.0 units)

i. Core	(33.0 units)		
a.	9.0 units	in	BCHM 310/9.0
b.	3.0 units	in	PHGY 355/3.0
c.	6.0 units	from	CRSS 453/3.0; CRSS 454/3.0; CRSS 456/3.0; CRSS 498/3.0; <i>LISC 454/3.0</i>
d.	3.0 units	in	PHAR 450/3.0
e.	12.0 units	from	ANAT 499/12.0; PATH 499/12.0; PHAR 499/12.0; PHGY 499/12.0

ii. Option	(9.0 units)		
a.	9.0 units	from	LISC_List_G

E. DRUG DEVELOPMENT AND HUMAN TOXICOLOGY (DDHT-O) (42.0 units)

i. Core	(33.0 units)		
a.	9.0 units	in	BCHM 310/9.0
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.	12.0 units	from	ANAT 499/12.0; EPID 499/12.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHGY 499/12.0; PHAR 499/12.0

ii. Option	(9.0 units)		
a.	3.0 units	from	LISC_List_J
b.	6.0 units	from	LISC_List_K at the 200 level or above

F. NEUROSCIENCE (NSCI-O) (42.0 units)

i. Core	(27.0 units)		
a.	9.0 units	in	BCHM 310/9.0
b.	3.0 units	from	NSCI 323/3.0; NSCI 324/3.0; NSCI 322/3.0
c.	3.0 units	in	PHAR 450/3.0
d.	12.0 units	in	NSCI 499/12.0

ii. Option	(15.0 units)		
a.	6.0 units	from	LISC_List_L at the 400 level
b.	9.0 units	from	LISC_List_L

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Students may take no more than one course from: ANAT 499/12.0 or CANC 499/12.0 or EPID 499/12.0 or LISC 499/12.0 or MICR 499/12.0 or NSCI 499/12.0 or PATH 499/12.0 or PHGY 499/12.0 or PHAR 499/12.0.		

5. Substitutions			

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 wishing to take 300- and 400-level BIOL courses as options must first take the prerequisite BIOL 205/3.0 as an option.		
C.	Students are able to take up to 9.0 units of approved BMED Options towards their LISC-P-BSH degree.		

Life Sciences Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

ASC_Science

Natural and Physical Science Courses

ASTR;
ANAT;
BCHM;
BIOL;
BIOM;
BMED 270/3.0; BMED 370/3.0; BMED 372/3.0; BMED 380/3.0; BMED 381/3.0; BMED 383/3.0; BMED 384/3.0;
BMED 470/3.0; BMED 473/3.0; BMED 480/3.0; *BMED 482/3.0*; BMED 483/3.0;
CANC;
CHEE 209/3.0;
CHEM;
CISC;
COGS;
COMM 162/3.0;
COMP;
CRSS;
DDHT
ECON 250/3.0;
ENSC 201/3.0; ENSC 301/3.0; ENSC 307/3.0; ENSC 320/3.0; ENSC 407/3.0; ENSC 425/3.0; ENSC 471/3.0; ENSC 480/3.0; ENSC 481/3.0;
EPID;
GEOL;
GLPH 472/3.0;
GPHY_Physical;
GPHY_Tech/Methods;
HLTH 230/3.0; HLTH 331/3.0;
KNPE 125/3.0; KNPE 153/3.0; KNPE 225/3.0; KNPE 227/3.0; KNPE 251/3.0; KNPE 254/3.0; KNPE 255/3.0; KNPE 261/3.0; KNPE 327/3.0; KNPE 339/3.0; KNPE 354/3.0; KNPE 355/3.0; KNPE 425/3.0; *KNPE 427/3.0*; KNPE 429/3.0; KNPE 439/3.0; KNPE 450/3.0; KNPE 454/3.0; KNPE 455/3.0; KNPE 459/3.0; KNPE 493/3.0
LISC;
MATH;
MICR;
NSCI;
NURS 323/3.0; NURS 324/3.0;
PATH;
PHAR;
PHGY;
PHYS;
POLS 385/3.0;
PSYC 100/6.0; PSYC 101/3.0; PSYC 103/3.0; PSYC 202/3.0; PSYC 203/3.0; PSYC 205/3.0; PSYC 215/3.0; PSYC 221/3.0; PSYC 271/3.0, *PSYC 300/6.0*; PSYC 301/3.0; PSYC 302/3.0; PSYC 450/3.0; *PSYC 475/3.0*; PSYC_Cluster_A;
SOCY 210/3.0; SOCY 211/3.0;
STAT

LISC_List_A				
Options in the Life Science Major Plan				
ANAT	BIOL 205/3.0		PSYC 100/6.0	STAT 263/3.0
BCHM	BIOL 321/3.0	CHEM 213/3.0	PSYC 205/3.0	STAT 361/3.0
CANC	BIOL 322/3.0	CHEM 221/3.0	PSYC 215/3.0	STAT 460/3.0
CRSS	BIOL 330/3.0	CHEM 222/3.0	PSYC 235/6.0	
DDHT	BIOL 331/3.0	CISC 271/3.0	PSYC 236/3.0	
EPID	BIOL 334/3.0	HLTH 323/3.0	PSYC 251/3.0	
LISC	BIOL 339/3.0		PSYC 271/3.0	
MICR	BIOL 350/3.0	MATH 221/3.0	<i>PSYC 300/6.0</i>	
NSCI	BIOL 369/3.0	MATH 225/3.0	PSYC 305/3.0	
PATH	BIOL 401/3.0	MATH 228/3.0	PSYC 323/3.0	
PHAR	BIOL 403/3.0	<i>MATH 232/3.0</i>	PSYC 333/3.0	
PHGY	BIOL 404/3.0	MATH 272/3.0	PSYC 353/3.0	
	BIOL 430/3.0		PSYC 355/3.0	
*Excluding:	BIOL 441/3.0	PHYS 206/3.0	<i>PSYC 360/3.0</i>	
ANAT 270/3.0;		<i>PHYS 214/3.0</i>	PSYC 370/3.0	
		PHYS 216/3.0	PSYC 371/3.0	
BCHM 270/3.0;	BIOM 300/3.0	PHYS 242/3.0	PSYC 420/3.0	
		PHYS 274/3.0	PSYC 422/3.0	
<i>CANC 497/3.0;</i>			PSYC 435/3.0	
MICR 270/3.0;	BMED 270/3.0		<i>PSYC 457/3.0</i>	
PHAR 270/3.0;	BMED 370/3.0		PSYC 470/3.0	
PHGY 170/3.0	BMED 380/3.0		PSYC 471/3.0	
any course	BMED 383/3.0		PSYC 473/3.0	
numbered 499	<i>BMED 482/3.0</i>		<i>PSYC 475/3.0</i>	

LISC_List_B				
Options in the Life Science General/Minor Plan				
ANAT	BIOL 205/3.0	BIOM 300/3.0	HLTH 102/3.0	
BCHM	BIOL 321/3.0		HLTH 230/3.0	
EPID	BIOL 322/3.0	CHEM 282/3.0	HLTH 237/3.0	NSCI 323/3.0
LISC	BIOL 330/3.0	CHEM 285/3.0	HLTH 331/3.0	NSCI 324/3.0
MICR	BIOL 331/3.0			
PHAR	BIOL 334/3.0	ENSC 201/3.0	KNPE 339/3.0	NURS 100/3.0
PHGY	BIOL 339/3.0		KNPE 353/3.0	
			<i>KNPE 427/3.0</i>	
			KNPE 429/3.0	PATH 310/3.0
			KNPE 459/3.0	
				STAT 263/3.0

LISC_List_C				
Options in the Biomedical Discovery Sub-plan				
ANAT BCHM	PHYS at the 200 level	BIOL 205/3.0 BIOL 321/3.0	BIOM 300/3.0	PSYC 205/3.0 PSYC 215/3.0
CANC	STAT at the 200 level	BIOL 322/3.0	BMED 270/3.0 BMED 370/3.0 BMED 380/3.0 BMED 383/3.0 <i>BMED 482/3.0</i>	PSYC 271/3.0
CHEM at the 200 level CRSS DDHT EPID LISC MATH at the 200 level MICR NSCI PATH PHAR PHGY	*Excluding: ANAT 270/3.0; BCHM 270/3.0; MICR 270/3.0; PHAR 270/3.0	BIOL 330/3.0 BIOL 331/3.0 BIOL 334/3.0 BIOL 339/3.0 BIOL 350/3.0 BIOL 369/3.0 BIOL 401/3.0 BIOL 403/3.0 BIOL 404/3.0 BIOL 430/3.0 BIOL 441/3.0	HLTH 323/3.0	PSYC 300/6.0 PSYC 305/3.0 PSYC 323/3.0 <i>PSYC 326/3.0</i> <i>PSYC 360/3.0</i> PSYC 370/3.0 PSYC 371/3.0 PSYC 470/3.0 PSYC 471/3.0 PSYC 501/9.0

LISC_List_D				
Options in the Biomedical Sciences Sub-plan				
ANAT 416/3.0	BIOL 205/3.0	BMED 270/3.0 BMED 370/3.0 BMED 380/3.0 BMED 383/3.0 <i>BMED 482/3.0</i>	MICR 320/3.0	PATH 310/3.0 PATH 410/3.0 PATH 425/3.0 PATH 430/3.0
ANAT 417/3.0	BIOL 321/3.0 BIOL 322/3.0	CANC 440/3.0	MICR 360/3.0 MICR 450/3.0	PHAR 340/3.0 PHAR 450/3.0 PHAR 416/3.0
BCHM 313/3.0	BIOL 330/3.0	CRSS 453/3.0	MICR 451/3.0	
BCHM 315/3.0	BIOL 331/3.0	CRSS 454/3.0	MICR 452/3.0	
BCHM 316/3.0	BIOL 334/3.0	CRSS 456/3.0	MICR 455/6.0	
BCHM 410/3.0	BIOL 339/3.0	CRSS 498/3.0	MICR 461/3.0	PHGY 350/3.0 PHGY 424/3.0 PHGY 444/3.0 PHGY 494/3.0
BCHM 411/3.0	BIOL 350/3.0		<i>NSCI 322/3.0</i>	
BCHM 432/3.0	BIOL 401/3.0 BIOL 403/3.0	DDHT 459/3.0	NSCI 323/3.0	
BIOM 300/3.0	BIOL 404/3.0 BIOL 430/3.0 BIOL 431/3.0 BIOL 433/3.0 BIOL 441/3.0 BIOL 445/3.0	DDHT 460/3.0 EPID 301/3.0 LISC 300/3.0 LISC 426/3.0 <i>LISC 454/3.0</i>	NSCI 324/3.0 NSCI 401/3.0 NSCI 414/3.0 NSCI 422/3.0 NSCI 429/3.0 NSCI 444/3.0	<i>PSYC 326/3.0</i> PSYC 470/3.0 PSYC 471/3.0 PSYC 473/3.0 <i>PSYC 475/3.0</i> STAT 361/3.0 <i>STAT 460/3.0</i>

LISC_Labs_E				
Laboratory Options in the Biomedical Sciences Sub-plan				
ANAT 309/3.0	BIOL 205/3.0	EPID 401/3.0	<i>PSYC 300/6.0</i>	ANAT 499/12.0
ANAT 312/3.0	BIOL 321/3.0		PSYC 305/3.0	
ANAT 315/3.0	BIOL 322/3.0		PSYC 323/3.0	EPID 499/12.0
ANAT 316/3.0	BIOL 330/3.0	LISC 390/3.0	<i>PSYC 360/3.0</i>	LISC 499/12.0
ANAT 409/3.0	BIOL 331/3.0	LISC 391/3.0	PSYC 371/3.0	MICR 499/12.0
	BIOL 334/3.0			NSCI 499/12.0
	BIOL 401/3.0	MICR 435/3.0		PATH 499/12.0
BCHM 421/3.0	BIOL 403/3.0	MICR 436/3.0		PHAR 499/12.0
BCHM 422/3.0	BIOL 404/3.0	NSCI 433/3.0		PHGY 499/12.0
BCHM 442/3.0	BIOL 441/3.0			

LISC_List_F				
Options in the Cancer Research Sub-plan				
BCHM 410/3.0	CHEM 311/3.0	MICR 360/3.0	PATH 310/3.0	PHAR 416/3.0
BCHM 411/3.0	CISC 333/3.0	MICR 436/3.0	PATH 425/3.0	PHGY 350/3.0
BCHM 432/3.0	EPID 301/3.0	MICR 450/3.0		
BIOL 205/3.0		MICR 451/3.0		PSYC 332/3.0
BIOL 330/3.0		MICR 461/3.0		
BIOL 331/3.0				
BIOL 430/3.0				
BIOL 441/3.0				

LISC_List_G				
Options in the Cardiorespiratory Sub-plan				
BMED 270/3.0	EPID 301/3.0			
CRSS 453/3.0	HLTH 323/3.0			
CRSS 454/3.0	PHGY 350/3.0			

LISC_List_J				
Options in the Drug Development and Human Toxicology Sub-plan				
Some of these courses may also appear on LISC_List_K. They may only be used to fulfill requirements from one list.				
CANC 440/3.0	CRSS 454/3.0		NSCI 414/3.0	
	CRSS 456/3.0	<i>LISC 454/3.0</i>		
CHEM 213/3.0			PATH 430/3.0	
CHEM 222/3.0	EPID 301/3.0			

LISC_List_K				
Options in the Drug Development and Human Toxicology Sub-plan				
Some of these courses may also appear on LISC_List_J. They may only be used to fulfill requirements from one list.				
ANAT	BIOL 205/3.0	BIOM 300/3.0	<i>NSCI 322/3.0</i>	PSYC 205/3.0
BCHM	BIOL 321/3.0		NSCI 323/3.0	PSYC 215/3.0
EPID	BIOL 322/3.0	CHEM 213/3.0	NSCI 324/3.0	PSYC 271/3.0
MICR	BIOL 330/3.0	CHEM 221/3.0	NSCI 422/3.0	<i>PSYC 300/6.0</i>
PATH	BIOL 331/3.0	CHEM 222/3.0		<i>PSYC 326/3.0</i>
PHAR	BIOL 334/3.0		PHYS 206/3.0	PSYC 370/3.0
PHGY	BIOL 339/3.0		<i>PHYS 214/3.0</i>	PSYC 371/3.0
*Excluding:	BIOL 350/3.0		PHYS 216/3.0	<i>PSYC 375/3.0</i>
ANAT 270/3.0;	BIOL 401/3.0	MATH 221/3.0	PHYS 242/3.0	<i>PSYC 390/3.0</i>
BCHM 270/3.0;	BIOL 403/3.0	MATH 225/3.0	<i>PHYS 274/3.0</i>	<i>PSYC 395/3.0</i>
MICR 270/3.0;	BIOL 404/3.0	MATH 228/3.0		PSYC 470/3.0
PHAR 270/3.0	BIOL 430/3.0	<i>MATH 232/3.0</i>		PSYC 471/3.0
PHGY 170/3.0	BIOL 441/3.0	MATH 271/3.0		<i>PSYC 475/3.0</i>
		STAT 268/3.0		PSYC 501/9.0

LISC_List_L				
Options in the Neuroscience Sub-plan				
ANAT 312/3.0	<i>NSCI 322/3.0</i>	PHGY 424/3.0	PSYC 271/3.0	
	(NSCI 323/3.0 or	PHGY 494/3.0	PSYC 370/3.0	
BIOL 445/3.0	NSCI 324/3.0)		PSYC 371/3.0	
	NSCI 401/3.0		PSYC 399/3.0	
	NSCI 403/3.0		PSYC 470/3.0	
LISC 300/3.0	NSCI 414/3.0		PSYC 471/3.0	
LISC 426/3.0	NSCI 422/3.0		PSYC 473/3.0	
	NSCI 429/3.0			
	NSCI 433/3.0			
	NSCI 444/3.0			
	NSCI 491/3.0			

LLCU-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 120.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(6.0 units)		
A.	3.0 units	in	LLCU 111/3.0
B.	3.0 units	in	LLCU 303/3.0

2. Option	(54.0 units)		
A.	3.0 units	from	LLCU 110/3.0; BISC 100/3.0; LLCU_Options A
B.	24.0 units	from	Option List 2.B.i. or 2.B.ii.

i. Two languages, each to the 200 level or above (24.0 units)

<i>a.</i>	12.0 units	from	LLCU_Languages at the 200 level or above
<i>b.</i>	12.0 units	from	LLCU_Languages at the 100 level or above

ii. One language to the 300 level or above, one language at the 100 Level (24.0 units)

<i>a.</i>	6.0 units	from	LLCU_Languages at the 300 level or above
<i>b.</i>	6.0 units	from	LLCU_Languages at the 200 level or above
<i>c.</i>	12.0 units	from	LLCU_Languages at the 100 level or above

C.	15.0 units	from	(LLCU_Options_A; LLCU_Options_B) at the 300 level or above
D.	6.0 units	from	(LLCU_Options_A; LLCU_Options_B) at the 200 level or above
E.	6.0 units	From	LLCU_Languages; LLCU_Options_A; LLCU_Options_B

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Minimum of two different languages from LLCU_Languages to meet Requirement 2.B.		

5. Substitutions			

6. Notes			

Languages, Literatures and Cultures Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

LLCU_Languages

Languages Available in the LLCU Major Plan

ANSH; ARAB; CHIN; FREN; GREK; GRMN; HEBR; INUK; ITLN; JAPN; LATN; LLCU 101/3.0; LLCU 102/3.0; MOHK, PORT; SPAN

LLCU_Options_A

Literature Courses

DRAM 303/3.0;
ENGL 217/3.0;
FREN 230/3.0; FREN 241/3.0; FREN 304/3.0; FREN 305/3.0; FREN 306/3.0; FREN 315/3.0; FREN 323/3.0; FREN 324/3.0;
FREN 325/3.0; FREN 335/3.0; FREN 342/3.0; FREN 343/3.0; FREN 351/3.0; FREN 363/3.0; FREN 387/3.0; FREN 388/3.0;
FREN 390/3.0; FREN 391/3.0; FREN 395/3.0; *FREN 404/3.0; FREN 405/3.0; FREN 417/3.0; FREN 423/3.0; FREN 424/3.0;*
FREN 425/3.0; FREN 435/3.0; FREN 451/3.0; FREN 487/3.0; FREN 490/3.0; FREN 491/3.0;
GRMN 311/3.0; GRMN 312/3.0; GRMN 429/3.0; GRMN 433/3.0;
HEBR 393/3.0;
ITLN 331/3.0; ITLN 332/3.0; ITLN 357/3.0; ITLN 415/3.0; ITLN 432/3.0;
LLCU 215/3.0; LLCU 226/3.0; LLCU 232/3.0; LLCU 233/3.0; LLCU 234/3.0; LLCU 257/3.0; LLCU 301/3.0; LLCU 316/3.0;
LLCU 322/3.0; LLCU 329/3.0; LLCU 330/3.0; LLCU 331/6.0; LLCU 333/3.0; LLCU 339/3.0; LLCU 340/3.0;
SPAN 306/3.0; SPAN 330/3.0; SPAN 331/3.0; SPAN 332/3.0; SPAN 333/3.0; SPAN 351/3.0; SPAN 352/3.0; SPAN 380/3.0; SPAN 381/3.0; SPAN 406/3.0; SPAN 495/3.0; SPAN 496/3.0; SPAN 501/3.0; SPAN 502/3.0; SPAN 504/3.0

LLCU_Options_B

Cultural Courses

ANSH 101/3.0; ANSH 102/3.0;
ARTH 245/3.0; ARTH 248/3.0; ARTH 250/3.0; ARTH 260/3.0; ARTH 272/3.0; ARTH 345/3.0; ARTH 348/3.0; ARTH 372/3.0; ARTH 380/3.0; ARTH 383/3.0;
BISC 100/3.0; BISC 101/3.0;
CLST 203/3.0; CLST 309/3.0; CLST 321/3.0;
DEVS 100/6.0; DEVS 220/3.0; DEVS 221/3.0; DEVS 305/3.0;
ENGL 293/3.0; ENGL 294/3.0;
FILM 110/6.0; FILM 236/3.0; FILM 240/3.0; FILM 308/3.0; FILM 335/3.0; FILM 338/3.0; FILM 340/3.0;
FREN 106/3.0; FREN 107/3.0; FREN 118/3.0; FREN 227/3.0; FREN 219/3.0; FREN 283/3.0; FREN 285/3.0; FREN 320/3.0;
FREN 327/3.0; FREN 392/3.0; FREN 396/3.0; *FREN 496/3.0;*
FRST 290/3.0;
GNDS 125/3.0; GNDS 350/3.0; GNDS 360/3.0;
GPHY 101/3.0; GPHY 227/3.0; GPHY 229/3.0; GPHY 254/3.0; GPHY 351/3.0;
GRMN 203/3.0; GRMN 306/3.0; GRMN 307/3.0; GRMN 308/3.0; GRMN 309/3.0; GRMN 315/3.0; GRMN 317/3.0;
GRMN 419/3.0; GRMN 420/3.0; GRMN 426/3.0; GRMN 427/3.0; GRMN 531/3.0; GRMN 532/3.0;
HEBR 301/3.0;
HIST 274/3.0; HIST 285/3.0; HIST 286/3.0;
IDIS 302/3.0;
INDG 301/3.0;
INTS 221/3.0; INTS 306/3.0; INTS 307/3.0; INTS 321/3.0; INTS 323/3.0; INTS 324/3.0;
ITLN 310/3.0; ITLN 408/3.0;
LING 100/6.0; LING 202/3.0; LING 205/3.0;
LLCU 200/3.0; LLCU 201/3.0; LLCU 205/3.0; LLCU 206/3.0; LLCU 207/3.0; LLCU 209/3.0; LLCU 210/3.0; LLCU 213/3.0;
LLCU 214/3.0; LLCU 244/3.0; LLCU 247/3.0; LLCU 248/3.0; LLCU 249/3.0; LLCU 270/3.0; LLCU 295/3.0; LLCU 302/3.0;
LLCU 308/3.0; LLCU 309/3.0; LLCU 319/3.0; LLCU 320/3.0; LLCU 322/3.0; LLCU 326/3.0; LLCU 327/3.0; LLCU 328/3.0;
LLCU 354/3.0; LLCU 358/3.0; LLCU 370/3.0; LLCU 432/6.0; LLCU 495/3.0; LLCU 501/3.0;
MUSC 289/3.0;
MUTH 110/3.0; MUTH 111/3.0;
PHIL 276/3.0;
RELS 131/6.0; RELS 161/6.0; RELS 226/3.0; RELS 234/3.0;
SOCY 235/3.0; SOCY 273/3.0; SOCY 300/3.0; SOCY 310/3.0; SOCY 362/3.0;
SPAN 310/3.0; SPAN 344/3.0; SPAN 354/3.0; SPAN 408/3.0; SPAN 428/3.0; SPAN 458/3.0

Plans of study for students who were admitted to a Mathematical Physics Plan prior to May 2018

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 102.0 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	(87.0 units)		
<i>Mathematics and Statistics</i>			
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
E.	9.0 units	in	MATH 326/3.0, MATH 328/3.0, MATH 334/3.0
<i>Physics</i>			
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.	9.0 units	in	PHYS 432/3.0 and PHYS 590/6.0
2. Option	(15.0 units)		
<i>Mathematics and Statistics</i>			
A.	3.0 units	from	MATH 341/3.0; MATH 421/3.0; MATH 427/3.0; MATH 436/3.0
B.	9.0 units	from	BIOM, MATH, or STAT at the 300 level or above
<i>Physics</i>			
C.	3.0 units	from	PHYS at the 400 level or above
3. Supporting	(0.0 units)		
4. Additional Requirements			
5. Substitutions			
6. Notes			

Plans of study for students who were admitted to a Mathematical Physics Plan after May 2018

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	(90.0 units)		
<i>Mathematics and Statistics</i>			
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
E.	9.0 units	in	MATH 326/3.0, MATH 328/3.0, MATH 334/3.0
<i>Physics</i>			
F.	6.0 units	from	PHYS 104/6.0 or PHYS 106/6.0
G.	18.0 units	in	PHYS 206/3.0, PHYS 212/3.0, PHYS 213/3.0; PHYS 239/3.0, PHYS 242/3.0, PHYS 250/3.0
H.	18.0 units	in	PHYS 321/3.0, PHYS 344/3.0, PHYS 345/3.0, PHYS 350/6.0, PHYS 372/3.0; <i>PHYS 313/3.0</i>
I.	9.0 units	in	PHYS 432/3.0 and PHYS 590/6.0
2. Option	(15.0 units)		
<i>Mathematics and Statistics</i>			
A.	3.0 units	from	MATH 341/3.0; MATH 421/3.0; MATH 427/3.0; MATH 436/3.0
B.	9.0 units	from	BIOM, MATH, or STAT at the 300 level or above
<i>Physics</i>			
C.	3.0 units	from	PHYS at the 400 level or above
3. Supporting	(0.0 units)		
4. Additional Requirements			
5. Substitutions			
6. Notes			

MATH-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	(30.0 units)		
A.	12.0 units	in	MATH 110/6.0 and MATH 120/6.0
B.	12.0 units	in	MATH 210/3.0, MATH 231/3.0, MATH 280/3.0, MATH 281/3.0
C.	6.0 units	from	(STAT 268/3.0 and STAT 269/3.0) or (STAT 351/3.0 and STAT 269/3.0)

2. Option	(30.0 units)		
A.	24.0 units	from	MATH; STAT; BIOM at the 300 level or above.
B.	6.0 units	from	MATH; STAT; BIOM at the 400 level or above.

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes	
A.	In planning their program, students should keep in mind that some of the 300- and 400-level courses listed are not offered every year and that many 400-level courses may be taken in third year.
B.	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.
C.	Students should select some of their 300-level and 400-level courses to be focused in one area of mathematics or statistics. The following is a list of suggested areas and some of the courses that belong to those areas:

<i>i. Actuarial Focus</i>	MATH 272/3.0, MATH 337/3.0, MATH 384/3.0, MATH 385/3.0, MATH 434/3.0, STAT 353/3.0, STAT 361/3.0, STAT 455/3.0, STAT 462/3.0, STAT 463/3.0, STAT 464/3.0, STAT 465/3.0, COMM 211/3.0, COMM 221/3.0, ECON 110/6.0, ECON 111/3.0, ECON 112/3.0, ECON 212/3.0
<i>ii. Biomathematics Focus</i>	BIOM 300/3.0, MATH 337/3.0, MATH 339/3.0, MATH 427/3.0, MATH 432/3.0, MATH 434/3.0, STAT 455/3.0
<i>iii. Business Focus</i>	MATH 337/3.0, MATH 384/3.0, MATH 401/3.0, MATH 434/3.0, STAT 353/3.0, STAT 361/3.0, STAT 455/3.0, STAT 463/3.0, STAT 464/3.0, STAT 465/3.0
<i>iv. Communications Focus</i>	MATH 312/3.0, MATH 328/3.0, MATH 406/3.0, MATH 418/3.0, MATH 474/3.0, MATH 477/3.0, STAT 455/3.0
<i>v. Discrete Mathematics and Optimization Focus</i>	MATH 312/3.0, MATH 401/3.0, MATH 402/3.0, MATH 405/3.0, MATH 406/3.0, MATH 434/3.0, STAT 353/3.0

<i>vi. Dynamic Processes Focus</i>	MATH 326, MATH 328/3.0, MATH 427/3.0, <i>MATH 432/3.0</i> , MATH 441/3.0, STAT 353/3.0
<i>vii. Probability Focus</i>	MATH 328/3.0, MATH 474/3.0, <i>MATH 484/3.0</i> , STAT 353/3.0, STAT 455/3.0, STAT 463/3.0
<i>viii. Pure Mathematics Focus</i>	MATH 310/3.0, MATH 326/3.0, MATH 328/3.0, MATH 341/3.0, MATH 401/3.0, MATH 413/3.0, MATH 414/3.0, MATH 421/3.0
<i>ix. Statistics Focus</i>	STAT 361/3.0, STAT 456/3.0, STAT 457/3.0, STAT 462/3.0, STAT 463/3.0, STAT 464/3.0, STAT 465/3.0, STAT 471/3.0, STAT 473/3.0, STAT 486/3.0, <i>STAT 460/3.0, STAT 466/3.0</i>
<i>x. Teaching Focus</i>	MATH 311/3.0, MATH 381/3.0, MATH 382/3.0, MATH 386/3.0, MATH 387/3.0

Mathematics – Minor (Science)

MATH-Z

Subject: Administered by the Department of Mathematics and Statistics.

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.

Mathematics – General (Science) – Bachelor of Science

MATH-G-BSC

Subject: Administered by the Department of Mathematics and Statistics.

Plan: Consists of 48.0 units as described below.

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

1. Core	(15.0 units)		
A.	6.0 units	from	MATH 110/6.0 or MATH 111/6.0 or (MATH 112/3.0 and MATH 212/3.0)
B.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0); MATH 126/6.0
C.	3.0 units	from	STAT 263/3.0 or STAT 268/3.0

2. Option	(15.0 units)		
A.	15.0 units	from	MATH; STAT; BIOM at the 200 level or above.

3. Supporting	(0.0 units)		

4. Additional Requirements (18.0 units)	
A.	Minimum of an additional 18.0 units in the physical and natural sciences or mathematics, from ASC_Science.

5. Substitutions	

6. Notes	

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 120.0 units (114.0 units for students admitted *prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core		(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; MATH 121/6.0 (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)
E.	3.0 units	from	MATH 225/3.0 or MATH 231/3.0 or <i>MATH 232/3.0</i>

2. Option		(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		(0.0 units)	

4. Additional Requirements	

5. Substitutions	

6. Notes	

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	(15.0 units)		
A.	6.0 units	from	MATH 110/6.0 or MATH 111/6.0 or (MATH 112/3.0 and MATH 212/3.0)
B.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0); MATH 126/6.0
C.	3.0 units	from	STAT 263/3.0 or STAT 268/3.0

2. Option	(15.0 units)		
A.	15.0 units	from	MATH; STAT; BIOM at the 200 level or above.

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			

Mathematics Course List

The following list 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 Open Enrolment period, and then only if space permits.

ASC_Science

Natural and Physical Science Courses

ANAT;
ASTR;
BCHM;
BIOL;
BIOM;
BMED 270/3.0; BMED 370/3.0; BMED 372/3.0; BMED 380/3.0; BMED 381/3.0; BMED 383/3.0; BMED 384/3.0;
BMED 470/3.0; BMED 473/3.0; BMED 480/3.0; *BMED 482/3.0*; BMED 483/3.0;
CANC;
CHEE 209/3.0;
CHEM;
CISC;
COGS;
COMM 162/3.0;
COMP;
CRSS;
DDHT;
ECON 250/3.0;
ENSC 201/3.0; ENSC 301/3.0; ENSC 307/3.0; ENSC 320/3.0; ENSC 407/3.0; ENSC 425/3.0; ENSC 471/3.0; ENSC 480/3.0; ENSC 481/3.0;
EPID;
GEOL;
GLPH 472/3.0;
GPHY_Physical;
GPHY_Tech/Methods;
HLTH 230/3.0; HLTH 331/3.0;
KNPE 125/3.0; KNPE 153/3.0; KNPE 225/3.0; KNPE 227/3.0; KNPE 251/3.0; KNPE 254/3.0; KNPE 255/3.0; KNPE 261/3.0; KNPE 327/3.0; KNPE 339/3.0; KNPE 354/3.0; KNPE 355/3.0; KNPE 425/3.0; *KNPE 427/3.0*; KNPE 429/3.0; KNPE 439/3.0; KNPE 450/3.0; KNPE 454/3.0; KNPE 455/3.0; KNPE 459/3.0; KNPE 493/3.0;
LISC;
MATH;
MICR;
NSCI;
NURS 323/3.0; NURS 324/3.0;
PATH;
PHAR;
PHGY;
PHYS;
POLS 385/3.0;
PSYC 100/6.0; PSYC 101/3.0; PSYC 103/3.0; PSYC 202/3.0; PSYC 203/3.0; PSYC 205/3.0; PSYC 215/3.0; PSYC 221/3.0; PSYC 271/3.0, *PSYC 300/6.0*; PSYC 301/3.0; PSYC 302/3.0; PSYC 450/3.0; *PSYC 475/3.0*; PSYC_Cluster_A;
SOCY 210/3.0; SOCY 211/3.0;
STAT

Medieval Studies – Minor (Arts)

MDVL-Y

Subject: Administered in partnership by the Departments of Art History and Art Conservation, Classics, English and History.

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.

Medieval Studies – General (Arts) – Bachelor of Arts

MDVL-G-BA

Subject: Administered in partnership by the Departments of Art History and Art Conservation, Classics, English and History.

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	(0.0 units)		
2. Option	(30.0 units)		
A.	6.0 units	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	(6.0 units)		
A.	6.0 units	in	ENGL 100/6.0 or 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 five 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.		

Medieval Studies Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

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 482/3.0

MDVL_Classics

Classics courses in Medieval Studies

CLST 321/3.0; LATN 327/6.0

MDVL_English

English courses in Medieval Studies

ENGL 206/3.0; ENGL 211/6.0; ENGL 281/3.0; *ENGL 304/6.0*; ENGL 306/6.0; ENGL 310/6.0; ENGL 311/6.0; ENGL 315/6.0; *ENGL 405/6.0*; *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 430/9.0; HIST 449/4.5

MDVL_Language_Acquisition

Language courses in Medieval Studies

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_Literature/Culture

Literary and Cultural Studies courses in Medieval Studies

FREN 304/3.0; *FREN 404/3.0*;
ITLN 415/3.0;
SPAN 315/3.0

Plans of study for students who were admitted to a Music Plan prior to May 1, 2017

Music – Major (Arts) – Bachelor of Arts (Honours)

MUSC-M-BAH

Subject: Administered by Dan School of Drama and 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 120.0 units (*114.0 units for students admitted prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(36.0 units)		
<i>Music Theory</i>			
A.	6.0 units	in	MUSC 191/6.0
B.	6.0 units	from	(MUSC 292/3.0 and MUSC 293/3.0) or <i>MUSC 291/6.0</i>
C.	3.0 units	in	MUSC 392/3.0
<i>Musicology/Ethnomusicology</i>			
D.	3.0 units	in	MUSC 103/3.0
E.	9.0 units	in	<i>MUSC 203/3.0, MUSC 204/3.0, MUSC 205/3.0</i>
F.	3.0 units	from	<i>MUSC 385/3.0 or MUSC 386/3.0</i>
<i>Honours Thesis</i>			
H.	6.0 units	from	MUSC 500/6.0 or <i>MUSC 592/6.0</i>

2. Option	(24.0 units)		
A.	12.0 units	from	(MUSC; MUSC_Subs) at the 300 level or above
B.	12.0 units	from	MUSC; MUSC_Subs

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	A maximum of 6.0 units may be from MUSC_Ensembles_Vocal; MUSC_Ensembles_Instrumental		

5. Substitutions			

6. Notes			
A.	Students with an interest in music education are advised to take 6.0 units from MUSC 180/3.0-188/3.0; <i>MUSC 273/3.0</i> ; MUSC 274/3.0.		

Music – Medial (Arts) – Bachelor of Arts (Honours)

MUSC[----]-A or [----]MUSC-A (where [----] is a second subject of study)

Subject: Administered by Dan School of Drama and 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 120.0 units (114.0 units for students admitted *prior* to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(12.0 units)		
A.	9.0 units	in	MUSC 103/3.0 and MUSC 191/6.0
B.	3.0 units	from	<i>MUSC 203/3.0 or MUSC 204/3.0 or MUSC 205/3.0</i>

2. Option	(30.0 units)		
A.	12.0 units	from	(MUSC; MUSC_Subs) at the 300 level or above
B.	9.0 units	from	(MUSC; MUSC_Subs) at the 200 level or above
C.	9.0 units	from	MUSC; MUSC_Subs

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	A maximum of 6.0 units may be from MUSC_Ensembles_Vocal; MUSC_Ensembles_Instrumental		

5. Substitutions			

6. Notes			
A.	Students interested in music education are advised to take 6.0 units from MUSC 180/3.0-188/3.0; <i>MUSC 273/3.0</i> ; MUSC 274/3.0.		

Music – Minor (Arts)

MUSC-Y

Subject: Administered by Dan School of Drama and 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 Dan School of Drama and 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	(6.0 units)		
A.	3.0 units	from	<i>MUSC 101/3.0</i> ; MUSC 102/3.0; <i>MUSC 203/3.0</i> ; <i>MUSC 204/3.0</i> ; <i>MUSC 205/3.0</i>
B.	3.0 units	from	MUSC 103/3.0; MUSC 171/3.0; MUSC 289/3.0

2. Option	(24.0 units)		
A.	24.0 units	from	MUSC; MUSC_Subs

3. Supporting	(0.0 units)		

4. Additional Requirements	
A.	A maximum of 18.0 units may be at the 100 level.
B.	A maximum of 6.0 units may be from MUSC_Ensembles_Vocal; MUSC_Ensembles_Instrumental
C.	No more than two of the courses from MUSC 180/3.0 through MUSC 189/3.0 may be used to fulfill the degree requirements.

5. Substitutions	

6. Notes	
A.	Students interested in music education are advised to take 6.0 units from MUSC 180/3.0-188/3.0; <i>MUSC 273/3.0</i> ; MUSC 274/3.0.

MUSC-P-BMS

Subject: Administered by Dan School of Drama and Music.

Plan: Consists of 90.0 units as described below.

Program: The Plan, with sufficient electives to total 126.0 units, will lead to a Bachelor of Music Degree.

1. Core	(57.0 units)		
<i>Musicology</i>			
A.	12.0 units	in	MUSC 103/3.0, <i>MUSC 203/3.0</i> , <i>MUSC 204/3.0</i> , <i>MUSC 205/3.0</i>
<i>Music Theory</i>			
B.	15.0 units	from	MUSC 191/6.0; MUSC 292/3.0; MUSC 293/3.0; MUSC 392/3.0; <i>MUSC 291/6.0</i>
<i>Music Education</i>			
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
<i>Musicianship</i>			
D.	6.0 units	in	MUSC 127/3.0 and MUSC 227/3.0
E.	3.0 units	from	<i>MUSC 129/3.0</i> ; MUSC 229/3.0; <i>MUSC 128/3.0</i> ; <i>MUSC 228/3.0</i>
<i>Applied Study</i>			
F.	12.0 units	from	(MUSC 120/6.0 or MUSC 121/6.0) and (MUSC 220/6.0 or MUSC 221/6.0)
<i>Ensembles</i>			
G.	1.5 units	from	MUSC_Ensembles_Vocal
H.	4.5 units	from	MUSC_Ensembles_Vocal; MUSC_Ensembles_Instrumental
2. Option (33.0 units)			
A.	24.0 units	from	(MUSC; MUSC_Subs) at the 300 level or above
B.	9.0 units	from	MUSC; MUSC_Subs
3. Supporting (0.0 units)			
4. Additional Requirements			
A.	A maximum of 108.0 units may be from MUSC; a minimum of 18.0 units must be non-MUSC courses.		
B.	A maximum of 12.0 units may be from MUSC_Ensembles_Vocal; MUSC_Ensembles_Instrumental (i.e. 4 more ensemble courses may be taken beyond the core requirements of the Plan).		
5. Substitutions			

6. Notes	
A.	Students interested in music education are advised to take 6.0 units from MUSC 180/3.0-188/3.0; <i>MUSC 273/3.0</i> ; MUSC 274/3.0
B.	<p><i>Ensembles:</i> 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 1.H., 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:</p> <p><i>Guitar students:</i> any Vocal, Symphony Orchestra, Symphonic Band, Wind or Unspecified Chamber Ensemble;</p> <p><i>Piano students:</i> must take MUSC 261/1.5 and any Piano Accompaniment, Vocal, Symphony Orchestra, Symphonic Band, Wind or Unspecified Chamber Ensemble;</p> <p><i>String students:</i> any Symphony Orchestra Ensemble;</p> <p><i>Voice students:</i> any Vocal Music Ensemble;</p> <p><i>Woodwind, Brass and Percussion students:</i> any Symphony Orchestra, Symphonic Band, or Wind Ensemble.</p>
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.

Course lists for students who were admitted to a Music Plan prior to May 1, 2017

Music Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

MUSC_Ensembles_Instrumental

Instrumental Music Ensembles

Note that membership (i.e. registration) in all Music Ensembles is by audition. Depending on their performance specialty, B.Mus students must complete specific ensemble requirements. See the Note 6.B. section for details.

Jazz Ensemble	Symphony Orchestra	Wind Ensemble	Unspecified Chamber Ensemble **	Keyboard Accompaniment
MUSC 166/1.5 MUSC 266/1.5 MUSC 366/1.5 MUSC 466/1.5	MUSC 162/1.5 MUSC 262/1.5 MUSC 362/1.5 MUSC 462/1.5	MUSC 178/1.5 MUSC 278/1.5 MUSC 378/1.5 MUSC 478/1.5	MUSC 263/1.5 MUSC 363/1.5 MUSC 463/1.5 ** these small ensembles can vary from year to year, and can include both instrumental and vocal components.	MUSC 261/1.5 MUSC 361/1.5
Brass Choir				
MUSC 165/1.5 MUSC 265/1.5 MUSC 365/1.5 MUSC 465/1.5				

MUSC_Ensembles_Vocal

Vocal Music Ensembles

Note that membership (i.e. registration) in all Music Ensembles is by audition. Depending on their performance specialty, B.Mus students must complete specific ensemble requirements. See the Note 6.B. section for details.

Choral Ensemble	Music Theatre Ensemble	Polyhymnia
MUSC 160/1.5 MUSC 260/1.5 MUSC 360/1.5 MUSC 460/1.5	MUTH 160/1.5 MUTH 260/1.5 MUTH 360/1.5 MUTH 460/1.5	MUSC 164/1.5 MUSC 264/1.5 MUSC 364/1.5 MUSC 464/1.5

MUSC_Subs

Music Substitutions

ENIN; IDIS 311/3.0; IDIS 410/3.0; MUTH

Plans of study for students who were admitted to a Music Plan after May 1, 2017

Music – Major (Arts) – Bachelor of Arts (Honours)

MUSC-M-BAH

Subject: Administered by Dan School of Drama and 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 120.0 units (114.0 units for students admitted prior to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(21.0 units)		
<i>Music and Cultures</i>			
A.	6.0 units	from	MUTH 110/3.0; MUTH 111/3.0; MUSC 103/3.0; MUSC 203/3.0
B.	3.0 units	from	MUTH 380/3.0; MUTH 387/3.0; MUSC 385/3.0; MUSC 386/3.0
C.	6.0 units	from	MUSC 500/6.0 or MUSC 592/6.0
<i>Musicology/Ethnomusicology</i>			
D.	6.0 units	from	MUSC 171/3.0; MUSC 210/3.0; MUSC 211/3.0; MUSC 289/3.0; MUTH 231/3.0; MUTH 232/3.0; MUSC 204/3.0; MUSC 205/3.0

2. Option	(39.0 units)		
<i>Applied Music</i>			
A.	3.0 units	from	Applied_Options
<i>Music Theory and Composition</i>			
B.	9.0 units	from	Theory/Composition_Options
C.	3.0 units	from	Theory/Composition_Options at the 300-level or above
<i>General Options</i>			
D.	9.0 units	from	MUSC at the 300-level or above; MUSC_Subs at the 300-level or above; DRAM at the 300-level or above
E.	9.0 units	from	MUSC; MUSC_Subs; DRAM
F.	6.0 units	from	DRAM; MUTH

3. Supporting	(0.0 units)		

4. Additional Requirements	
A.	A maximum of 18.0 units may be at the 100-level.

5. Substitutions	
A.	DRAM 400/6.0 may be used to satisfy 6.0 units from 1.C. and 3.0 units from DRAM

6. Notes	
A.	Students with an interest in music education are advised to take 6.0 units from MUSC 180/3.0-189/3.0; MUSC 274/3.0.
B.	Students without previous Rudiments experience should take MUSC 104/3.0.

Music – Medial (Arts) – Bachelor of Arts (Honours)

MUSC[----]-A or [----]MUSC-A (where [----] is a second subject of study)

Subject: Administered by Dan School of Drama and 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 120.0 units (114.0 units for students admitted *prior* to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(18.0 units)		
A.	3.0 units	in	MUSC 104/3.0
B.	6.0 units	from	MUSC 151/3.0; MUSC 152/3.0; MUSC 156/3.0; MUSC 191/6.0; MUSC 255/6.0; <i>MUSC 153/3.0</i>
C.	6.0 units	from	MUSC 210/3.0; MUSC 211/3.0; MUTH 110/3.0; MUTH 111/3.0; <i>MUSC 103/3.0; MUSC 203/3.0; MUSC 204/3.0; MUSC 205/3.0</i>
D.	3.0 units	from	MUSC 171/3.0; MUTH 231/3.0; MUTH 232/3.0; MUSC 289/3.0

2. Option	(24.0 units)		
A.	9.0 units	from	MUSC at the 300-level or above; MUSC_Subs at the 300-level or above; DRAM at the 300-level or above
B.	6.0 units	from	MUSC at the 200-level or above; MUSC_Subs at the 200-level or above
C.	9.0 units	from	MUSC; MUSC_Subs; DRAM

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	A maximum of 18.0 units may be at the 100-level		

5. Substitutions			

6. Notes			
A.	Students interested in music education are advised to take 6.0 units from MUSC 180/3.0-189/3.0; MUSC 274/3.0.		
B.	Students who have completed a conservatory Advanced Rudiments exam or equivalent with a grade of 80% or higher may request to have a different MUSC course substituted for Core requirement 1.A.		

Music – Minor (Arts)

MUSC-Y

Subject: Administered by Dan School of Drama and 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 Dan School of Drama and 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	(9.0 units)		
A.	3.0 units	from	MUSC 104/3.0
B.	3.0 units	from	MUTH 110/3.0; MUTH 111/3.0; <i>MUSC 103/3.0; MUSC 203/3.0; MUSC 204/3.0; MUSC 205/3.0</i>
C.	3.0 units	from	MUSC 171/3.0; MUSC 289/3.0

2. Option	(21.0 units)		
A.	18.0 units	from	MUSC; MUSC_Subs
B.	3.0 units	from	MUSC; MUSC_Subs; DRAM

3. Supporting	(0.0 units)		

4. Additional Requirements	
A.	A maximum of 18.0 units may be at the 100-level.

5. Substitutions	

6. Notes	
A.	Students interested in music education are advised to take 6.0 units from MUSC 180/3.0-189/3.0; MUSC 274/3.0.
B.	Students who have completed a conservatory Advanced Rudiments exam or equivalent with a grade of 80% or higher may request to have a different MUSC course substituted for Core requirement 1.A.

MUSC-P-BMS

Subject: Administered by Dan School of Drama and Music.

Plan: Consists of 90.0 units as described below.

Program: The Plan, with sufficient electives to total 126.0 units, will lead to a Bachelor of Music Degree.

1. Core	(57.0 units)		
<i>Musicology</i>			
A.	6.0 units	from	MUTH 110/3.0; MUTH 111/3.0; <i>MUSC 203/3.0</i>
B.	6.0 units	in	(MUSC 210/3.0 and MUSC 211/3.0) or (<i>MUSC 204/3.0</i> and <i>MUSC 205/3.0</i>)
<i>Music Theory</i>			
C.	15.0 units	from	MUSC 191/6.0; MUSC 292/3.0; MUSC 293/3.0; MUSC 392/3.0; <i>MUSC 291/6.0</i>
<i>Music Education</i>			
D.	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; MUSC 189/3.0
<i>Musicianship</i>			
E.	6.0 units	in	MUSC 127/3.0 and MUSC 227/3.0
F.	3.0 units	from	MUSC 129/3.0; MUSC 229/3.0; <i>MUSC 128/3.0</i> ; <i>MUSC 228/3.0</i>
<i>Applied Study</i>			
G.	12.0 units	from	(MUSC 120/6.0 or MUSC 121/6.0) and (MUSC 220/6.0 or MUSC 221/6.0)
<i>Ensembles</i>			
H.	6.0 units	from	MUSC_Ensembles
2. Option	(33.0 units)		
A.	24.0 units	from	MUSC at the 300-level or above; MUSC_Subs at the 300 level or above
B.	9.0 units	from	MUSC; MUSC_Subs
3. Supporting	(0.0 units)		
4. Additional Requirements			
A.	A maximum of 108.0 units may be from MUSC; a minimum of 18.0 units must be non-MUSC courses.		
B.	A maximum of 12.0 units may be from MUSC_Ensembles (i.e. 4 more ensemble courses may be taken beyond the core requirements of the Plan). Students may register and participate in a maximum of 3.0 units of MUSC_Ensembles (i.e. 2) per academic session.		
C.	A minimum of 1.5 units must be in Choral Large MUSC_Ensembles.		
5. Substitutions			

6. Notes	
A.	Students interested in music education are advised to take 6.0 units from MUSC 180/3.0-189/3.0; MUSC 274/3.0
B.	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 X25/6.0 courses may be used towards the MUSC Option components of the BMUS degree.
C.	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% 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.

Course lists for students who were admitted to a Music Plan after May 1, 2017

Music Course Lists

The following lists may contain 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 Open Enrolment period, and then only if space permits.

MUSC_Ensembles

Music Ensembles

Note that membership (i.e. registration) in all Music Ensembles is by audition. Depending on their performance specialty, B.Mus students must complete specific ensemble requirements. See the Note 6.B. section for details.

Small Ensemble	Medium Ensemble	Large Ensemble	Music Theatre Ensemble
<i>Topics: Unspecified Chamber, Keyboard Accompaniment</i>	<i>Topics: Brass Choir, Flute Choir, Jazz Ensemble, Polyhymnia</i>	<i>Topics: Choral, Symphony Orchestra, Wind</i>	<i>Topics: Musical Theatre, Opera</i>
MUSC 100/1.5	MUSC 112/1.5	MUSC 115/1.5	MUTH 160/1.5
MUSC 200/1.5	MUSC 212/1.5	MUSC 215/1.5	MUTH 260/1.5
MUSC 300/1.5	MUSC 312/1.5	MUSC 315/1.5	MUTH 360/1.5
MUSC 400/1.5	MUSC 412/1.5	MUSC 415/1.5	MUTH 460/1.5

MUSC_Subs

Music Substitutions

DRAM 247/1.5; ENIN; IDIS 311/3.0; IDIS 410/3.0; LLCU 244/3.0; MUTH

Applied_Options

Applied Music Options

MUSC 124/6.0; MUSC 129/3.0; MUSC 180/3.0-MUSC 189/3.0; MUSC 229/3.0; MUSC 270/3.0; MUSC 326/3.0; MUSC_Ensembles; MUTH 331/3.0

Theory/Composition_Options

Music Theory and Composition Options

MUSC 151/3.0; MUSC 152/3.0; MUSC 156/3.0; MUSC 191/6.0; MUSC 253/3.0; MUSC 255/6.0; MUSC 292/3.0; MUSC 293/3.0; MUSC 358/3.0; MUSC 392/3.0; MUSC 396/3.0; IDIS 311/3.0; IDIS 410/6.0

MUTH-G-BMT

Subject: Administered by Dan School of Drama and Music, in co-operation with the Music Theatre – Performance Diploma Program at St. Lawrence College.

Plan: Consists of 69.0 units as described below.

Program: The Plan, in combination with sufficient electives to total 90.0 units, will lead to a Bachelor of Music Theatre Degree.

1. Core		(51.0 units)	
A.	18.0 units	in	DRAM 100/6.0; MUSC 104/3.0; MUTH 1UNS/9.0 ^{6A}
B.	15.0 units	in	DRAM 200/6.0, DRAM 220/3.0, DRAM 240/3.0, DRAM 246/1.5, DRAM 247/1.5
C.	6.0 units	in	MUTH 231/3.0; MUTH 331/3.0
D.	6.0 units	in	MUSC 171/3.0; MUTH 232/3.0
E.	3.0 units	from	MUSC 129/3.0; MUSC 229/3.0
F.	3.0 units	in	MUTH 340/3.0

2. Option		(18.0 units)	
A.	9.0 units	from	MUTH 210/3.0; MUTH 211/3.0; MUTH 310/3.0; DRAM; MUSC; MUTH
B.	9.0 units	from	DRAM; MUSC; MUTH; STSC; DRAM_Sub; MUSC_Sub

3. Supporting		(0.0 units)	

4. Additional Requirements			

5. Substitutions	

6. Notes	
A.	18.0 units in transfer credit will be awarded from St. Lawrence College to the Queen’s degree following successful completion of all requirements of the first two years of the Advanced Diploma program in Music Theatre – Performance. The transfer credits will be awarded as DRAM 100/6.0, MUSC 104/3.0 and MUTH 1UNS/9.0.

Music Theatre Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

DRAM_Subs

Drama Substitutions

CLST 312/3.0; DEVS 321/3.0; ENGL 256/6.0; ENGL 257/3.0; ENGL 258/3.0; ENGL 259/3.0; ENGL 326/6.0; ENGL 335/6.0; ENIN; *FREN 266/3.0*; FREN 305/3.0; FREN 306/3.0; GRMN 561/3.0; IDIS 210/3.0; IDIS 311/3.0; IDIS 410/3.0; ITLN 357/3.0; LLCU 200/6.0; LLCU 257/3.0; LLCU 301/3.0; LLCU 332/3.0; LLCU 339/3.0; *MUSC 287/3.0*; *MUSC 373/3.0*; MUTH; STSC 300/3.0; STSC 309/3.0; STSC 339/3.0; STSC 381/3.0.

MUSC_Subs

Music Substitutions

DRAM 247/1.5; ENIN; IDIS 311/3.0; IDIS 410/3.0; LLCU 244/3.0; MUTH

Plans of study for students who were admitted to a Physical Education Plan after May 1, 2014

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 57.0 units as described below.

Program: The Plan, with sufficient electives to total 90.0 units will lead to a Bachelor of Physical and Health Education Degree.

1. Core	(39.0 units)		
A.	12.0 units	in	HLTH 101/3.0, KNPE 125/3.0, KNPE 153/3.0, KNPE 167/3.0
B.	21.0 units	in	KNPE 225/3.0, KNPE 227/3.0, KNPE 237/3.0, KNPE 254/3.0, KNPE 255/3.0, KNPE 261/3.0, KNPE 265/3.0,
<i>Required Practica</i>			
C.	3.0 units	in	PACT 100/3.0
D.	3.0 units	from	PACT 237/3.0 or <i>PACT 200/3.0</i>

2. Option	(6.0 units)		
A.	3.0 units	from	HLTH 332/3.0 or KNPE 203/3.0 or KNPE 331/3.0 or <i>KNPE 333/3.0</i>
B.	3.0 units	from	PACT 333/3.0; PACT 335/3.0; PACT 338/3.0; <i>PACT 300/3.0</i>

3. Supporting	(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			
A.	No more than 42.0 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).		

5. Substitutions			

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/Program requirements.		
B.	This Plan, unlike most other General Plans, may <u>not</u> be added to a Major to form a Major-Minor Plan combination.		
C.	This Plan, unlike most other General Plans, may <u>not</u> be requested as a course of study.		

Plans of study for students who were admitted to a Physical Education Plan after May 1, 2014

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 84.0 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.

Admission to this Program has been closed, effective September 2017. Students who are currently registered in this Program will be able to complete the degree requirements as listed below.

1. Core	(66.0 units)		
A.	12.0 units	in	HLTH 101/3.0, KNPE 125/3.0, KNPE 153/3.0, KNPE 167/3.0
B.	6.0 units	in	PSYC 100/6.0
C.	21.0 units	in	KNPE 225/3.0, KNPE 227/3.0, KNPE 237/3.0, KNPE 254/3.0, KNPE 255/3.0, KNPE 261/3.0, KNPE 265/3.0,
D.	9.0 units	from	HLTH 332/3.0 or KNPE 203/3.0 or KNPE 331/3.0 or <i>KNPE 333/3.0</i>
E.	6.0 units	in	ANAT 315/3.0 and ANAT 316/3.0
<i>Required Practica</i>			
F.	3.0 units	in	PACT 100/3.0
G.	3.0 units	from	PACT 237/3.0 or <i>PACT 200/3.0</i>
H.	3.0 units	in	PACT 333/3.0
I.	3.0 units	from	PACT 335/3.0; PACT 338/3.0; PACT 403/3.0; <i>PACT 300/3.0</i>
2. Option	(18.0 units)		
A.	6.0 units	from	KNPE; HLTH at the 400 level or above
B.	6.0 units	from	KNPE; HLTH at the 300 level or above
C.	6.0 units	from	HLTH at the 200 level or above; RELS 239/3.0
3. Supporting	(0.0 units)		
4. Additional Requirements			
A.	No more than 60.0 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).		
5. Substitutions			
A.			
6. Notes			
A.	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.		
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 KNPE 331/3.0 or KNPE 345/3.0 starting in their second year.
C.	Students interested in being accepted into the Exercise, Disability and Aging "mini-stream" will apply at the end of second year for the limited number of spaces that are available.
D.	Students in the PHED-P-BPH Plan are permitted to complete only one of the three "mini-streams" available (see Notes C and D) to offer towards their degree.

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 120.0 units (114.0 units for students admitted *prior* to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(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; PHIL 373/3.0; PHIL 374/3.0
D.	3.0 units	in	PHIL 361/3.0

2. Option	(36.0 units)		
A.	6.0 units	from	PHIL at the 400 or 500 level
B.	15.0 units	from	PHIL at the 300 level or above; INTS 306/3.0; SOCY 363/3.0; <i>IDIS 306/3.0</i>
C.	15.0 units	from	PHIL at the 200 level or above; INTS 306/3.0; PPEC 200/3.0; SOCY 363/3.0; <i>IDIS 306/3.0</i>

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	A student considering a Major or Medial in Philosophy is strongly urged to take either PHIL 111/6.0 or PHIL 115/6.0 to fulfill requirement 1.A.
B.	A student may register in a 500-level Directed Special Studies course, with permission of the Undergraduate Chair, to fulfill requirement 2.A.

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 120.0 units (114.0 units for students admitted *prior* to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(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; PHIL 373/3.0; PHIL 374/3.0

2. Option	(21.0 units)		
A.	6.0 units	from	PHIL at the 400 or 500 level
B.	6.0 units	from	PHIL at the 300 level or above; INTS 306/3.0; SOCY 363/3.0; <i>IDIS 306/3.0</i>
C.	9.0 units	from	PHIL at the 200 level or above; INTS 306/3.0; PPEC 200/3.0; SOCY 363/3.0; <i>IDIS 306/3.0</i>

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	A student considering a Major or Medial in Philosophy is strongly urged to take either PHIL 111/6.0 or PHIL 115/6.0 to fulfill requirement 1.A.
B.	A student may register in a 500-level Directed Special Studies course, with permission of the Undergraduate Chair, to fulfill requirement 2.A.

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	(6.0 units)		
A.	6.0 units	from	PHIL at the 100 level
2. Option	(24.0 units)		
A.	24.0 units	from	PHIL at the 200 level or above; INTS 306/3.0; PPEC 200/3.0; SOCY 363/3.0; <i>IDIS 306/3.0</i>
3. Supporting	(0.0 units)		
4. Additional Requirements			
5. Substitutions			
6. Notes			

Plans of study for students who were admitted to a Physics Plan prior to May 2018

Physics – Major (Science) – Bachelor of Science (Honours)

PHYS-M-BSH

Subject: Administered by the Department of Physics, Engineering Physics and 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	(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 225/3.0 or MATH 231/3.0 or <i>MATH 232/3.0</i>
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 316/3.0 and PHYS 317/3.0) or (MATH 228/3.0 and MATH 338/3.0) or <i>PHYS 312/6.0</i>
G.	3.0 units	in	PHYS 432/3.0

2. Option	(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	(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; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0); <i>MATH 122/6.0</i>

4. Additional Requirements	

5. Substitutions	

6. Notes	

Physics – Minor (Science)

PHYS-Z

Subject: Administered by the Department of Physics, Engineering Physics and 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 and Astronomy.

Plan: Consists of 48.0 units as described below.

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

1. Core		(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		(6.0 units)		
A.	6.0 units	from	PHYS 216/3.0; PHYS at the 300 level or above	

3. Supporting		(12.0 units)		
A.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0); <i>MATH 122/6.0</i>	
B.	6.0 units	in	(MATH 221/3.0 or MATH 280/3.0) and (MATH 225/3.0 or MATH 231/3.0 or <i>MATH 232/3.0</i>)	

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	When used towards the requirements of a B.Sc. 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 and 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	(6.0 units)		
A.	6.0 units	from	PHYS 104/6.0 or PHYS 106/6.0

2. Option	(24.0 units)		
A.	15.0 units	from	PHYS at the 200 level or above
B.	9.0 units	from	ASTR 101/3.0; ASTR 102/3.0; PHYS P10/3.0; PHYS P20/3.0; <i>PHYS P15/3.0; PHYS P16/3.0</i> ; PHYS at the 200 level or above

3. Supporting	(6.0 units)		
A.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0); <i>MATH 122/6.0</i>

4. Additional Requirements			

5. Substitutions			

6. Notes			

Physics – Specialization (Science) – Bachelor of Science (Honours)

PHYS-P-BSH

Subject: Administered by the Department of Physics, Engineering Physics and 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	(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 ; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0); <i>MATH 122/6.0</i>
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 221/3.0 or MATH 280/3.0
G.	3.0 units	from	MATH 225/3.0 or MATH 231/3.0 or <i>MATH 232/3.0</i>
H.	24.0 units	from	PHYS 313/3.0, PHYS 316/3.0, PHYS 317/3.0, PHYS 321/3.0, PHYS 344/3.0, PHYS 345/3.0, PHYS 350/3.0, PHYS 372/3.0, <i>PHYS 312/6.0</i>
I.	15.0 units	In	PHYS 432/3.0, PHYS 453/3.0, PHYS 490/3.0, PHYS 590/6.0
J.	3.0 units	from	PHYS 444/3.0 or PHYS 472/3.0
K.	3.0 units	in	PHYS 480/3.0
2. Option	(6.0 units)		
A.	6.0 units	from	PHYS at the 400 level or above
3. Supporting	(0.0 units)		
4. Additional Requirements			
5. Substitutions			
6. Notes			

Plans of study for students who were admitted to a Physics Plan after May 2018

Physics – Major (Science) – Bachelor of Science (Honours)

PHYS-M-BSH

Subject: Administered by the Department of Physics, Engineering Physics and 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	(54.0 units)		
A.	6.0 units	from	PHYS 104/6.0 or PHYS 106/6.0
B.	18.0 units	in	PHYS 206/3.0, PHYS 212/3.0, PHYS 213/3.0; 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 225/3.0 or MATH 231/3.0 or <i>MATH 232/3.0</i>
E.	15.0 units	in	PHYS 344/3.0, PHYS 345/3.0, PHYS 350/6.0, PHYS 372/3.0; <i>PHYS 313/3.0</i>
F.	6.0 units	from	(PHYS 316/3.0 and PHYS 317/3.0) or (MATH 228/3.0 and MATH 338/3.0) or <i>PHYS 312/6.0</i>
G.	3.0 units	in	PHYS 432/3.0

2. Option	(6.0 units)		
A.	6.0 units	from	PHYS 315/3.0; PHYS at the 400 level or above

3. Supporting	(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; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)

4. Additional Requirements	

5. Substitutions	

6. Notes	

Physics – Minor (Science)

PHYS-Z

Subject: Administered by the Department of Physics, Engineering Physics and 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 and Astronomy.

Plan: Consists of 48.0 units as described below.

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

1. Core	(30.0 units)		
A.	6.0 units	from	PHYS 104/6.0 or PHYS 106/6.0
B.	18.0 units	in	PHYS 206/3.0, PHYS 212/3.0, PHYS 213/3.0; PHYS 239/3.0, PHYS 242/3.0, PHYS 250/3.0
C.	6.0 units	in	PHYS 344/3.0, PHYS 372/3.0; <i>PHYS 313/3.0</i>

2. Option	(6.0 units)		
A.	6.0 units	from	PHYS 216/3.0; PHYS at the 300 level or above

3. Supporting	(12.0 units)		
A.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
B.	6.0 units	in	(MATH 221/3.0 or MATH 280/3.0) and (MATH 225/3.0 or MATH 231/3.0 or <i>MATH 232/3.0</i>)

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	When used towards the requirements of a B.Sc. 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 and 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	(6.0 units)		
A.	6.0 units	from	PHYS 104/6.0 or PHYS 106/6.0

2. Option	(24.0 units)		
A.	15.0 units	from	PHYS at the 200 level or above
B.	9.0 units	from	ASTR 101/3.0; ASTR 102/3.0; PHYS P10/3.0; PHYS P20/3.0; <i>PHYS P15/3.0; PHYS P16/3.0</i> ; PHYS at the 200 level or above

3. Supporting	(6.0 units)		
A.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)

4. Additional Requirements			

5. Substitutions			

6. Notes			

Physics – Specialization (Science) – Bachelor of Science (Honours)

PHYS-P-BSH

Subject: Administered by the Department of Physics, Engineering Physics and 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	(93.0 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 ; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
D.	6.0 units	in	CHEM 112/6.0
E.	18.0 units	in	PHYS 206/3.0, PHYS 212/3.0, PHYS 213/3.0; PHYS 239/3.0, PHYS 242/3.0, PHYS 250/3.0
F.	3.0 units	from	MATH 221/3.0 or MATH 280/3.0
G.	3.0 units	from	MATH 225/3.0 or MATH 231/3.0 or <i>MATH 232/3.0</i>
H.	24.0 units	in	PHYS 316/3.0, PHYS 317/3.0, PHYS 321/3.0, PHYS 344/3.0, PHYS 345/3.0, PHYS 350/6.0, PHYS 372/3.0, <i>PHYS 312/6.0; PHYS 313/3.0</i>
I.	15.0 units	In	PHYS 432/3.0, PHYS 453/3.0, PHYS 490/3.0, PHYS 590/6.0
J.	3.0 units	from	PHYS 444/3.0 or PHYS 472/3.0
K.	3.0 units	in	PHYS 480/3.0
2. Option	(6.0 units)		
A.	6.0 units	from	PHYS at the 400 level or above
3. Supporting	(0.0 units)		
4. Additional Requirements			
5. Substitutions			
6. Notes			

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 120.0 units (114.0 units for students admitted *prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(18.0 units)		
A.	6.0 units	in	POLS 110/6.0
B.	6.0 units	in	POLS 250/6.0
C.	6.0 units	in	POLS 384/3.0 and POLS 385/3.0

2. Option	(42.0 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_Sub
C.	18.0 units	from	POLS at the 200 level or above; POLS_Sub

3. Supporting	(0.0 units)		

4. Additional Requirements	
A.	A maximum of 12.0 units may be chosen from POLS_Sub.

5. Substitutions	

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 120.0 units (114.0 units for students admitted *prior* to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(18.0 units)		
A.	6.0 units	in	POLS 110/6.0
B.	6.0 units	in	POLS 250/6.0
C.	6.0 units	in	POLS 384/3.0 and POLS 385/3.0

2. Option	(24.0 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_Sub
C.	12.0 units	from	POLS at the 200 level or above; POLS_Sub

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	A maximum of 12.0 units may be chosen from POLS_Sub.		

5. Substitutions			

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	(6.0 units)		
A.	6.0 units	in	POLS 110/6.0
2. Option	(24.0 units)		
A.	24.0 units	from	POLS at the 200 level; PPEC 200/3.0
3. Supporting	(0.0 units)		
4. Additional Requirements			
5. Substitutions			
6. Notes			
A.	POLS courses at the 300 level or above may be counted for Option Courses 2.A. , with approval from the Department.		

Political Studies Course List

The following list 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 Open Enrolment period, and then only if space permits.

POLS_Subs

Political Studies Substitutions

DEVS 230/3.0; *GPHY 363/3.0*; IDIS 304/3.0; IDIS 305/3.0; INTS 300/3.0; INTS 301/3.0; INTS 303/3.0; INTS 312/3.0; INTS 313/3.0; *INTS 320/3.0*; LAW 201/3.0; LLCU 319/3.0; LLCU 320/3.0; PPEC 200/3.0

PPEC-P-BAH

Subject: Administered by the Departments of Economics, Philosophy and Political Studies.

Plan: Consists of 42.0 core and option units in one Sub-plan, plus 21.0 units in each of the other two disciplines, as described below.

Program: The Plan, with sufficient electives to total 120.0 units, will lead to a Bachelor of Arts (Honours) Degree.

1. Sub-Plans	(84.0 units)	
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A. ECONOMICS (ECP) (84.0 UNITS)

i. Core	(33.0 units)		
a.	6.0 units	from	ECON 110/6.0 or (ECON 111/3.0 and ECON 112/3.0)
b.	3.0 units	in	PPEC 200/3.0
c.	12.0 units	in	ECON 212/3.0; ECON 222/3.0; ECON 250/3.0; ECON 255/3.0
d.	3.0 units	from	ECON 310/3.0; ECON 320/3.0; ECON 351/3.0
e.	3.0 units	in	PPEC 400/3.0
f.	6.0 units	from	MATH 126/6.0; MATH 120/6.0; MATH 121/6.0; (MATH 123/6.0 and MATH 124/3.0)

ii. Option	(9.0 units)		
a.	3.0 units	from	ECON_Options
b.	6.0 units	from	ECON at the 300 level or above

iii. Philosophy	(21.0 units)		
a.	6.0 units	from	PHIL at the 100 level
b.	6.0 units	from	PHIL_Options; PHIL 250/6.0; PHIL 257/6.0
c.	9.0 units	from	PHIL at the 200 level or above

iv. Politics	(21.0 units)		
a.	12.0 units	in	POLS 110/6.0; POLS 250/6.0
b.	6.0 units	from	POLS_Options
c.	3.0 units	from	POLS at the 200 level or above

B. PHILOSOPHY (PHPE) (84.0 UNITS)

i. Core	(30.0 units)		
a.	6.0 units	from	PHIL at the 100 level
b.	3.0 units	in	PPEC 200/3.0
c.	12.0 units	in	PHIL 250/6.0; PHIL 257/6.0
d.	3.0 units	in	PHIL 361/3.0
e.	3.0 units	from	PHIL 328/3.0; PHIL 329/3.0; PHIL 330/3.0; PHIL 335/3.0; PHIL 373/3.0; PHIL 374/3.0
f.	3.0 units	in	PPEC 400/3.0
ii. Option	(12.0 units)		
a.	3.0 units	from	PHIL_Options
b.	6.0 units	from	PHIL at the 400 level
b.	3.0 units	from	PHIL at the 300 level or above
iii. Economics	(21.0 units)		
a.	6.0 units	from	ECON 110/6.0 or (ECON 111/3.0 and ECON 112/3.0)
b.	6.0 units	from	ECON_Options
c.	9.0 units	from	ECON at the 200 level or above
iv. Politics	(21.0 units)		
a.	12.0 units	in	POLS 110/6.0; POLS 250/6.0
b.	6.0 units	from	POLS_Options
c.	3.0 units	from	POLS at the 200 level or above

C. POLITICS (POPE) (84.0 UNITS)

i. Core	(24.0 units)		
a.	12.0 units	in	POLS 110/6.0; POLS 250/6.0
b.	3.0 units	in	PPEC 200/3.0
c.	6.0 units	in	POLS 384/3.0; POLS 385/3.0
d.	3.0 units	in	PPEC 400/3.0
ii. Option	(18.0 units)		
a.	3.0 units	from	POLS_Options
b.	6.0 units	from	POLS at the 300 level or above
c.	9.0 units	from	POLS at the 200 level or above
iii. Economics	(21.0 units)		
a.	6.0 units	from	ECON 110/6.0 or (ECON 111/3.0 and ECON 112/3.0)
b.	6.0 units	from	ECON_Options
c.	9.0 units	from	ECON at the 200 level or above
iv. Philosophy	(21.0 units)		
a.	6.0 units	from	PHIL at the 100 level
b.	6.0 units	from	PHIL_Options; PHIL 250/6.0; PHIL 257/6.0
c.	9.0 units	from	PHIL at the 200 level or above

2. Supporting	(0.0 units)		

3. Additional Requirements	

4. Substitutions	

5. Notes	
A.	ECON courses at the 200 level or above may require MATH 126/6.0 or MATH 120/6.0 or MATH 121/6.0 or (MATH 123/3.0 and MATH 124/3.0).
B.	POLS courses at the 300 level require (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.
C.	PHIL 318/3.0 is recommended from the list of PHIL option courses.

PPEC Course Lists

The following lists contain courses offered through the Departments of Economics, Philosophy and Political Studies. 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 Open Enrolment period, and then only if space permits.

ECON_Options

Economics Options

ECON 223/3.0; ECON 231/3.0; ECON 232/3.0; ECON 239/3.0; ECON 240/3.0; ECON 241/3.0; ECON 243/3.0; ECON 244/3.0; ECON 261/3.0; ECON 262/3.0; ECON 280/3.0; ECON 290/3.0

PHIL_Options

Philosophy Options

PHIL 201/3.0; PHIL 247/3.0; PHIL 261/3.0; PHIL 263/3.0; PHIL 276/3.0; PHIL 293/3.0; PHIL 296/3.0; PHIL 301/3.0; PHIL 303/3.0; PHIL 310/3.0; PHIL 318/3.0; PHIL 343/3.0; PHIL 347/3.0; PHIL 376/3.0

POLS_Options

Politics Options

POLS 262/3.0; POLS 264/3.0; POLS 280/3.0; POLS 318/3.0; POLS 319/3.0; POLS 351/3.0; POLS 353/3.0; POLS 354/3.0; POLS 383/3.0; POLS 388/3.0

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	(15.0 units)		
A.	6.0 units	in	PSYC 100/6.0
B.	3.0 units	from	PSYC 202/3.0 or STAT_Options
C.	3.0 units	in	PSYC 203/3.0
D.	3.0 units	from	PSYC 301/3.0 or <i>PSYC 300/6.0</i>

2. Option	(45.0 units)		
A.	6.0 units	from	PSYC 205/3.0; PSYC 215/3.0; PSYC 221/3.0; PSYC 271/3.0
B.	6.0 units	from	PSYC 231/3.0; PSYC 235/6.0; PSYC 236/3.0; PSYC 241/3.0; PSYC 251/3.0
C.	3.0 units	from	PSYC_Labs
D.	9.0 units	from	Option List 2.F.i. or 2.F.ii.
			<i>i. Seminar Option (9.0 units)</i>
			<i>a.</i> 9.0 units from PSYC at the 400 level
			<i>ii. Thesis Option (9.0 units)</i>
			<i>a.</i> 9.0 units in PSYC 501/9.0
E.	6.0 units	from	PSYC_Cluster_B
F.	6.0 units	from	PSYC_Cluster_A
G.	6.0 units	from	PSYC at 300 level or above; PSYC_Subs_A
H.	3.0 units	from	PSYC at 200 level or above; PSYC_Subs_B

3. Supporting	(12.0 units)		
A.	12.0 units	from	(BIOL 102/3.0 and BIOL 103/3.0); [CHEM 112/6.0 or (CHEM 113/3.0 and CHEM 114/3.0)]; (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 118/6.0)

4. Additional Requirements	
A.	Maximum 6.0 units from PSYC_Subs_A; PSYC_Subs_B.

5. Substitutions	
A.	PSYC 202/3.0, PSYC 203/3.0, PSYC 301/3.0 and PSYC 302/3.0 may not be substituted by an equivalent course from another university. Letters of Permission will only be granted in extraordinary cases. 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 research program in Psychology normally requires the completion of an undergraduate thesis, such as PSYC 501/9.0, although this does not necessarily apply to Counselling programs.
B.	Students who wish to pursue the Thesis Option in Year 4 must take PSYC 302/3.0, which will count under 2.G.
C.	CHEM 113/3.0 and CHEM 114/3.0 are not sufficient for pre-med Chemistry requirements.

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 120.0 units (114.0 units for students admitted prior to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(15.0 units)		
A.	6.0 units	in	PSYC 100/6.0
B.	3.0 units	from	PSYC 202/3.0 or STAT_Options
C.	3.0 units	In	PSYC 203/3.0
D.	3.0 units	from	PSYC 301/3.0 or <i>PSYC 300/6.0</i>

2. Option	(45.0 units)		
A.	6.0 units	from	PSYC 205/3.0; PSYC 215/3.0; PSYC 221/3.0; PSYC 271/3.0
B.	6.0 units	from	PSYC 231/3.0; PSYC 235/6.0; PSYC 236/3.0; PSYC 241/3.0; PSYC 251/3.0
C.	9.0 units	from	Option List 2.C.i. (Seminar) or 2.C.ii. (Thesis)
<i>i. Seminar Option</i>			
a.	9.0 units	from	PSYC at the 400 level
<i>ii. Thesis Option</i>			
a.	9.0 units	in	PSYC 501/9.0
D.	6.0 units	from	PSYC_Cluster_B
E.	6.0 units	from	PSYC_Cluster_A
F.	9.0 units	from	PSYC at the 300 level or above; PSYC_Subs_A
G.	3.0 units	from	PSYC at the 200 level or above; PSYC_Subs_B

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Maximum 6.0 units from PSYC_Subs_A; PSYC_Subs_B.		

5. Substitutions			
A.	PSYC 202/3.0, PSYC 203/3.0, PSYC 301/3.0 and PSYC 302/3.0 may not be substituted by an equivalent course from another university. Letters of Permission will only be granted in extraordinary cases. 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 research program in Psychology normally requires the completion of an undergraduate thesis, such as PSYC 501/9.0, although this does not necessarily apply to Counselling programs.		
B.	Students who wish to pursue the Thesis Option in Year 4 must take PSYC 302/3.0, which will count under 2.F.		

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 120.0 units (114.0 units for students admitted *prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(12.0 units)		
A.	6.0 units	in	PSYC 100/6.0
B.	3.0 units	from	PSYC 202/3.0 or STAT_Options
C.	3.0 units	in	PSYC 203/3.0

2. Option	(30.0 units)		
A.	6.0 units	from	PSYC 205/3.0; PSYC 215/3.0; PSYC 221/3.0; PSYC 271/3.0
B.	6.0 units	from	PSYC 231/3.0; PSYC 235/6.0; PSYC 236/3.0; PSYC 241/3.0; PSYC 251/3.0
C.	12.0 units	from	PSYC at the 300 level or above; PSYC_Subs_A
D.	6.0 units	from	PSYC at the 200 level or above; PSYC_Subs_B

3. Supporting	(0.0 units)		

4. Additional Requirements	
A.	Maximum 3.0 units from PSYC_Subs_A; PSYC_Subs_B.

5. Substitutions	
A.	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. These courses may not be repeated, except with the permission of the Chair of Undergraduate Studies.

6. Notes	

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	(6.0 units)		
A.	6.0 units	in	PSYC 100/6.0

2. Option	(24.0 units)		
A.	24.0 units	from	PSYC at the 200 level or above; STAT_Options; COGS 300/3.0; COMM 352/3.0; INTS 306/3.0

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	A maximum of 3.0 units may be taken from STAT_Options.		

5. Substitutions			

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.		

Psychology Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

PSYC_Cluster_A

Brain, Behaviour and Cognitive Science

PSYC 305/6.0; PSYC 315/3.0; PSYC 321/3.0; PSYC 323/3.0; PSYC 350/3.0; PSYC 352/3.0; PSYC 353/3.0; PSYC 355/3.0; PSYC 360/3.0; PSYC 370/3.0; PSYC 371/3.0; PSYC 375/3.0; PSYC 380/3.0; PSYC 398/3.0; PSYC 420/3.0; PSYC 422/3.0; PSYC 423/3.0; PSYC 450/3.0; PSYC 452/3.0; PSYC 453/3.0; PSYC 456/3.0; PSYC 457/3.0; PSYC 470/3.0; PSYC 471/3.0; PSYC 473/3.0; PSYC 485/3.0; PSYC 495/3.0; PSYC 550/3.0; PSYC 555/3.0; PSYC 570/3.0; PSYC 575/3.0

PSYC_Cluster_B

Developmental, Social and Clinical

PSYC 332/3.0; PSYC 333/3.0; PSYC 334/3.0; PSYC 335/3.0; PSYC 341/3.0; PSYC 342/3.0; PSYC 348/3.0; PSYC 350/3.0; PSYC 351/3.0; PSYC 352/3.0; PSYC 353/3.0; PSYC 355/3.0; PSYC 397/3.0; PSYC 399/3.0; PSYC 400/3.0; PSYC 430/3.0; PSYC 433/3.0; PSYC 434/3.0; PSYC 435/3.0; PSYC 436/3.0; PSYC 437/3.0; PSYC 440/3.0; PSYC 441/3.0; PSYC 442/3.0; PSYC 443/3.0; PSYC 446/3.0; PSYC 450/3.0; PSYC 452/3.0; PSYC 453/3.0; PSYC 455/3.0; PSYC 456/3.0; PSYC 457/3.0; PSYC 480/3.0; PSYC 490/3.0; PSYC 550/3.0; PSYC 555/3.0; PSYC 570/3.0; PSYC 575/3.0

PSYC_Labs

Psychology Laboratory Courses

PSYC 305/6.0; PSYC 315/3.0; PSYC 323/3.0; PSYC 334/3.0; PSYC 341/3.0; PSYC 355/3.0 (Winter 2017 onward); PSYC 360/3.0; PSYC 371/3.0; PSYC 375/3.0; PSYC 380; PSYC 399/3.0 (2016-2017); PSYC 495/3.0; PSYC 570/3.0; PSYC 575/3.0

PSYC_Sub_A

Psychology Substitutions List A (300-level and above)

ANAT 312/3.0;
BIOL 300/3.0; BIOL 302/3.0; BIOL 321/3.0; BIOL 331/3.0; BIOL 350/3.0; BIOL 369/3.0; BIOL 445/3.0;
BIOM 300/3.0;
CISC 325/3.0; CISC 352/3.0; CISC 452/3.0; CISC 453/3.0;
COGS 300/3.0; COGS 400/3.0;
COMM 333/3.0; COMM 351/3.0; COMM 352/3.0; COMM 355/3.0; COMM 359/3.0;
GPHY 336/3.0;
INTS 306/3.0; INTS 307/3.0;
LING 310/3.0;
NSCI 323/3.0; NSCI 324/3.0; NSCI 401/3.0; NSCI 414/3.0;
PHIL 301/3.0; PHIL 311/3.0; PHIL 351/3.0;
POLS 312/3.0; POLS 313/3.0;
SOCY 387/3.0; SOCY 388/3.0; SOCY 389/3.0;
STAT 460/3.0; STAT 463/3.0; STAT 464/3.0; STAT 471/3.0; STAT 473/3.0; STAT 486/3.0

PSYC_Sub_B***Psychology Substitutions List B (200-level and above)***

ANAT 312/3.0;

BCHM 218/3.0;

BIOL 205/3.0; BIOL 206/3.0; BIOL 300/3.0; *BIOL 302/3.0*; BIOL 321/3.0; BIOL 331/3.0; BIOL 350/3.0; BIOL 369/3.0;

BIOL 445/3.0;

BIOM 300/3.0;

CISC 325/3.0; CISC 352/3.0; CISC 452/3.0; CISC 453/3.0;

COGS 201/3.0; COGS 300/3.0; COGS 400/3.0;

COMM 231/3.0; COMM 251/3.0; COMM 333/3.0; COMM 351/3.0; COMM 352/3.0; COMM 355/3.0; COMM 359/3.0;

ECON 261/3.0;

GPHY 336/3.0;

INTS 306/3.0; INTS 307/3.0;

LING 310/3.0;

NSCI 323/3.0; NSCI 324/3.0; NSCI 401/3.0; NSCI 414/3.0;

PHIL 301/3.0; PHIL 311/3.0; PHIL 351/3.0;

POLS 312/3.0; POLS 313/3.0;

SOCY 275/3.0; SOCY 276/3.0; SOCY 387/3.0; SOCY 388/3.0; SOCY 389/3.0;

STAT 460/3.0; STAT 463/3.0; STAT 464/3.0; STAT 471/3.0; STAT 473/3.0; STAT 486/3.0

STAT_Options***Statistic Course Options***

BIOL 243/3.0; CHEE 209/3.0; COMM 162/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0; NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0

Religious Studies – Major (Arts) – Bachelor of Arts (Honours)

RELS-M-BAH

Subject: Administered by the School of Religion.

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 (114.0 units for students admitted *prior* to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(15.0 units)		
A.	6.0 units	from	RELS 131/6.0 or RELS 161/6.0 or (RELS 162/3.0 and RELS 163/3.0)
B.	6.0 units	from	RELS 255/3.0; RELS 354/3.0; <i>RELS 355/3.0</i>
C.	3.0 units	in	RELS 401/3.0

2. Option	(45.0 units)		
A.	15.0 units	from	RELS_List
B.	18.0 units	from	RELS
C.	12.0 units	from	RELS; RELS_Subs

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Minimum 21.0 units in RELS must be at the 300 level or above		

5. Substitutions			

6. Notes			

Religious Studies – Medial (Arts) – Bachelor of Arts (Honours)

RELS[----]-A or [----]RELS-A (where [----] is a second subject of study)

Subject: Administered by the School of Religion.

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 120.0 units (114.0 units for students admitted *prior* to September 2017), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(15.0 units)		
A.	6.0 units	from	RELS 131/6.0 or RELS 161/6.0 or (RELS 162/3.0 and RELS 163/3.0)
B.	6.0 units	from	RELS 255/3.0; RELS 354/3.0; <i>RELS 355/3.0</i>
C.	3.0 units	in	RELS 401/3.0

2. Option	(27.0 units)		
A.	12.0 units	from	RELS_List
B.	3.0 units	from	RELS
C.	12.0 units	from	RELS; RELS_Subs

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Minimum 12.0 units in RELS must be at the 300 level or above		

5. Substitutions			

6. Notes			

Religious Studies – Minor (Arts)

RELS-Y

Subject: Administered by the School of Religion.

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	(6.0 units)		
A.	6.0 units	from	RELS 131/6.0 or RELS 161/6.0 or (RELS 162/3.0 and RELS 163/3.0)

2. Option	(24.0 units)		
A.	6.0 units	from	RELS_List
B.	12.0 units	from	RELS
C.	6.0 units	from	RELS; RELS_Sub

3. Supporting	(0.0 units)		

4. Additional Requirements			
A.	Minimum 3.0 units in RELS must be at the 300-level or above		

5. Substitutions			

6. Notes			

Religious Studies Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

RELS_List

Religious Studies List

RELS 202/3.0; RELS 210/3.0; RELS 212/3.0; RELS 214/3.0; RELS 218/3.0; RELS 222/3.0; RELS 223/3.0; RELS 224/3.0; RELS 226/3.0; RELS 227/3.0; RELS 228/3.0; RELS 229/3.0; RELS 234/3.0; RELS 302/3.0; RELS 310/3.0; RELS 311/3.0; RELS 312/3.0; RELS 321/3.0; RELS 322/3.0; RELS 326/3.0; RELS 328/3.0; RELS 334/3.0; RELS 341/3.0; RELS 393/3.0; RELS 394/3.0; RELS 396/3.0; RELS 398/3.0

RELS_Subs

Religious Studies Substitutions

ARTH 401/3.0; CLST 203/3.0; CLST 321/3.0; *ENGL 201/3.0*; GNDS 365/3.0; GNDS 401/6.0; *HEBR 191/6.0*; HEBR 192/3.0; HEBR 193/3.0; HEBR 292/3.0; HEBR 393/3.0; HIST 221/3.0; HIST 222/3.0; HIST 295/3.0; HIST 437/9.0; PHIL 263/3.0; PHIL 367/3.0

Spanish and 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 and 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	(12.0 units)		
A.	6.0 units	in	(SPAN 111/3.0 or <i>SPAN P10/3.0</i>) and SPAN 112/3.0
B.	6.0 units	in	SPAN 204/3.0 and SPAN 205/3.0

2. Option	(18.0 units)		
A.	18.0 units	from	SLAS_Options_A; SLAS_Options_B

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

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 1.A. and 1.B. These would be replaced with courses from SLAS_Options_A or SLAS_Options_B.		
B.	To register in SPAN 111/3.0 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 and 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 Department of Languages, Literatures and Cultures to find a suitable substitution(s) if necessary.		
E.	Courses with significant Latin American content may be approved for inclusion in this degree program with permission of the Department of Languages, Literatures, and Cultures.		

Spanish and Latin American Studies Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

SLAS_Options_A

Options in the Spanish Latin American Studies Plan, List A

LLCU 110/3.0; LLCU 111/3.0; LLCU 209/3.0; LLCU 244/3.0; LLCU 248/3.0; LLCU 249/3.0; LLCU 301/3.0; LLCU 328/3.0; LLCU 354/3.0; LLCU 358/3.0; PORT 103/3.0; PORT 104/3.0; SPAN 206/3.0; SPAN 301/3.0; SPAN 302/3.0; SPAN 306/3.0; SPAN 351/3.0; SPAN 352/3.0; SPAN 354/3.0; SPAN 428/3.0; SPAN 458/3.0

SLAS_Options_B

Options in the Spanish Latin American Studies Plan, List B

ARTH 272/3.0; DEVS 305/6.0; ECON 239/3.0; ECON 325/3.0; ECON 426/3.0; FILM 326/3.0; FILM 337/3.0; FILM 425/3.0; FILM 435/3.0; GNDS 212/3.0; GNDS 330/3.0; GPHY 254/3.0; GPHY 257/3.0; GPHY 258/3.0; GPHY 365/3.0; HIST 285/3.0; HIST 286/3.0; POLS 342/3.0; SOCY 225/3.0

Plans of study for students who were admitted to a Sociology Plan after 1 May 2013

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 120.0 units (*114.0 units for students admitted prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(18.0 units)		
A.	6.0 units	in	SOCY 122/6.0; BISC 100/3.0; BISC 101/3.0
B.	3.0 units	in	SOCY 210/3.0
C.	3.0 units	from	SOCY 211/3.0 or STAT_Options
D.	6.0 units	in	SOCY 226/3.0 and SOCY 227/3.0

2. Option	(42.0 units)		
A.	6.0 units	from	SOCY at the 400 level or above; POLS 485/3.0
B.	15.0 units	from	SOCY at the 300 level or above; DEVS 305/6.0; DEVS 311/3.0; ENSC 305/3.0; INTS 306/3.0; INTS 307/3.0; POLS 485/3.0
C.	21.0 units	from	SOCY at the 200 level or above; DEVS 305/6.0; DEVS 311/3.0; ENSC 305/3.0; INTS 306/3.0; INTS 307/3.0; KNPE 367/3.0; POLS 485/3.0

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

6. Notes	

Plans of study for students who were admitted to a Sociology Plan after 1 May 2013

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 120.0 units (*114.0 units for students admitted prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(18.0 units)		
A.	6.0 units	in	SOCY 122/6.0; BISC 100/3.0; BISC 101/3.0
B.	3.0 units	in	SOCY 210/3.0
C.	3.0 units	from	SOCY 211/3.0 or STAT_Options
D.	6.0 units	in	SOCY 226/3.0 and SOCY 227/3.0

2. Option	(24.0 units)		
A.	3.0 units	from	SOCY at the 400 level or above; POLS 485/3.0
B.	21.0 units	from	SOCY at the 200 level or above; DEVS 305/6.0; DEVS 311/3.0; ENSC 305/3.0; INTS 306/3.0; INTS 307/3.0; KNPE 367/3.0; POLS 485/3.0

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

6. Notes	

Plans of study for students who were admitted to a Sociology Plan after 1 May 2013

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	(6.0 units)		
A.	6.0 units	from	SOCY 122/6.0; BISC 100/3.0; BISC 101/3.0
2. Option	(24.0 units)		
A.	24.0 units	from	SOCY at the 200 level or above; DEVS 305/6.0; DEVS 311/3.0; ENSC 305/3.0; INTS 306/3.0; INTS 307/3.0; KNPE 367/3.0; POLS 485/3.0
3. Supporting	(0.0 units)		
4. Additional Requirements			
5. Substitutions			
6. Notes			

Sociology Course Lists

The following lists contain 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 Open Enrolment period, and then only if space permits.

STAT_Options

Statistic Course Options

BIOL 243/3.0; CHEE 209/3.0; COMM 162/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0; NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0

SODE-P-BCH (Software Design)

SODE-I-BCH (Software Design with Professional 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	(63.0 units)		
A.	6.0 units	in	CISC 121/3.0 and CISC 124/3.0
B.	6.0 units	from	(CISC 102/3.0 and MATH 112/3.0) or (CISC 102/3.0 and MATH 111/6.0) or MATH 110/6.0
C.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0)
D.	3.0 units	from	STAT 263/3.0 or STAT_Options
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.	6.0 units	in	CISC 324/3.0 and CISC 365/3.0
G.	3.0 units	in	CISC 325/3.0
H.	3.0 units	in	CISC 327/3.0
I.	3.0 units	in	CISC 423/3.0
J.	6.0 units	in	CISC 422/3.0 and CISC 497/3.0

2. Option	(45.0 units)		
A.	45.0 units	from	Option List 2.A.i. or 2.A.ii.
<i>i. Software Development Option (45.0 units)</i>			
a.	3.0 units	from	CISC 322/3.0 or CISC 326/3.0
b.	3.0 units	from	CISC 271/3.0 or CISC 340/3.0
c.	6.0 units	in	CISC 498/6.0
<i>Applications</i>			
d.	3.0 units	from	SOFT_Design at the 400 level
e.	3.0 units	from	SOFT_Design
<i>Complementary</i>			
f.	3.0 units	from	WRIT 125/3.0; WRIT 175/3.0; PHIL 154/3.0; PHIL 259/3.0; MECH 380/3.0
g.	3.0 units	from	COMM 200/3.0; COMM 244/3.0; COMM 251/3.0; APSC 221/3.0
h.	3.0 units	from	ASC_Humanities_Languages_Social_Sciences
i.	18.0 units	from	Any discipline other than CISC, COCA, COGS, MATH, STAT, APSC, ELEC
<i>ii. Game Development Option (45.0 units)</i>			
a.	6.0 units	in	CISC 226/3.0 and CISC 271/3.0
b.	3.0 units	from	CISC 322/3.0; CISC 326/3.0

<i>Applications</i>			
<i>c.</i>	6.0 units	in	CISC 454/3.0 and CISC 486/3.0
<i>d.</i>	3.0 units	in	CISC 496/3.0
<i>Complementary</i>			
<i>e.</i>	3.0 units	from	COMM 200/3.0; COMM 244/3.0; COMM 251/3.0; APSC 221/3.0
<i>f.</i>	3.0 units	from	WRIT 125/3.0; WRIT 175/3.0; PHIL 154/3.0; PHIL 259/3.0; <i>MECH 380/3.0</i>
<i>g.</i>	3.0 units	from	ASC_Humanities_Languages_Social_Sciences
<i>h.</i>	18.0 units	from	Any discipline other than CISC, COCA, COGS, MATH, STAT, APSC, ELEC

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions	
A.	Students in the internship version of this Plan will substitute 6.0 units from COMP at the 300 level for requirement 2.A.i.c. (CISC 498/6.0) or 3.0 units from COMP at the 300 level for requirement 2.A.ii.d. (CISC 496/3.0) In addition, the B.Cmp.(Hons.) Program requirements for students doing the Software Development option 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. For students doing the Game Development option, the B.Cmp.(Hons.) 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 <i>Introductory Courses</i> 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.
D.	Requirement 2.A.i.f. or 2.A.ii.f. may be satisfied by any course with a significant writing component. Alternative courses may be selected in consultation with the School of Computing.
E.	The following courses are recommended as electives for students following the Game Development Option: CISC 282/3.0, CISC 320/3.0. and COCA 201/3.0.

Software Design Course List

The following list 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 Open Enrolment period, and then only if space permits.

SOFT_Design

Software Design Applications Courses

CISC 226/3.0; CISC 271/3.0; CISC 282/3.0; CISC 332/3.0; CISC 333/3.0; CISC 340/3.0; CISC 352/3.0; CISC 425/3.0; CISC 426/3.0; CISC 432/3.0; CISC 434/3.0; CISC 435/3.0; CISC 437/3.0; CISC 452/3.0; CISC 453/3.0; CISC 454/3.0; CISC 458/3.0; CISC 486/3.0; ELEC 470/3.0; ELEC 471/3.0; ELEC 476/3.0; ELEC 478/3.0

STAT_Options

Statistic Course Options

BIOL 243/3.0; CHEE 209/3.0; COMM 162/3.0; ECON 250/3.0; GPHY 247/3.0; KNPE 251/3.0; NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0

ASC_Humanities_Languages_Social_Sciences

Humanities, Languages, and Social Sciences Courses

ARTE; ARTH;

BISC;

BMED 373/3.0;

CLST; COCA; CWRI;

DEVS; DRAM;

ECON; EMPR; ENGL; ENGX; ENIN; ENSC;

FILM; FRST;

GLPH 271/3.0; GLPH 471/3.0;

GNDS; GPHY_Human;

HIST;

HLTH 101/3.0; HLTH 102/3.0; HLTH 200/3.0; HLTH 205/3.0; HLTH 235/3.0; HLTH 237/3.0; HLTH 252/3.0; HLTH 270/3.0; HLTH 300/3.0; HLTH 305/3.0; HLTH 315/3.0; HLTH 323/3.0; HLTH 332/3.0; HLTH 333/3.0; HLTH 334/3.0; HLTH 350/3.0; HLTH 352/3.0; HLTH 397/3.0; HLTH 401/3.0; HLTH 402/3.0; HLTH 403/3.0; HLTH 404/3.0; HLTH 415/3.0; HLTH 430/3.0; HLTH 434/3.0; HLTH 435/3.0; HLTH 445/3.0; HLTH 455/3.0; HLTH 456/3.0; HLTH 491/3.0; HLTH 493/3.0; HLTH 495/3.0; HLTH 497/3.0; HLTH 595/6.0;

IDIS; INTS;

JWST;

KINE; KNPE 253/3.0; KNPE 337/3.0; KNPE 353/3.0; KNPE 363/3.0; KNPE 365/3.0; KNPE 367/3.0; KNPE 397/3.0; KNPE 463/3.0; KNPE 465/3.0; KNPE 473/3.0;

LANG; LANG_Languages; LIBS; LING; LLCU;

MUSC; MUTH;

PACT; PHED; PHIL; POLS; PPEC;

PSYC 100/6.0; PSYC 101/3.0; PSYC 102/3.0; PSYC 231/3.0; PSYC 241/3.0; PSYC 235/6.0; PSYC 236/3.0; PSYC 251/3.0; PSYC_Cluster_B;

RELS;

SOCY; STSC;

WRIT

(Note that the GPHY, LANG and PSYC course lists noted here may be found in the Degree Plans and Course Lists section of this *Calendar*.)

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	(33.0 units)		
A.	12.0 units	in	MATH 110/6.0 and 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 351/3.0 and STAT 269/3.0)
D.	6.0 units	in	STAT 353/3.0 and STAT 361/3.0
E.	3.0 units	in	STAT 463/3.0

2. Option	(27.0 units)		
A.	12.0 units	from	STAT at the 300 level or above
B.	15.0 units	from	MATH 210/3.0; MATH 211/6.0; MATH 231/3.0; or any MATH, STAT, BIOM at the 300 level or above

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			

Statistics – Minor (Science)

STAT-Z

Subject: Administered by the Department of Mathematics and Statistics.

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.

Statistics – General (Science) – Bachelor of Science

STAT-G-BSC

Subject: Administered by the Department of Mathematics and Statistics.

Plan: Consists of 48.0 units as described below.

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

1. Core	(21.0 units)		
A.	6.0 units	from	MATH 110/6.0; MATH 111/6.0; (MATH 112/3.0 and MATH; STAT; BIOM at the 200-level or above)
B.	6.0 units	from	MATH 120/6.0 ; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0) ; 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)

2. Option	(9.0 units)		
A.	6.0 units	from	STAT 361/3.0; 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	(0.0 units)		

4. Additional Requirements (18.0 units)			
A.	Minimum of an additional 18.0 units in the physical and natural sciences or mathematics, from ASC_Science.		

5. Substitutions			

6. Notes			

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	(30.0 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 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)
E.	9.0 units	in	STAT 353/3.0, STAT 361/3.0, STAT 463/3.0

2. Option	(12.0 units)		
A.	3.0 units	from	STAT at the 400 level or above
B.	9.0 units	from	MATH; STAT; BIOM at the 200 level or above

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			

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	(21.0 units)		
A.	6.0 units	from	MATH 110/6.0; MATH 111/6.0; (MATH 112/3.0 and MATH; STAT; BIOM at the 200 level or above)
B.	6.0 units	from	MATH 120/6.0; MATH 121/6.0; (MATH 123/3.0 and MATH 124/3.0); 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)

2. Option	(9.0 units)		
A.	6.0 units	from	STAT 361/3.0; 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	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			

Statistics Course List

The following list 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 Open Enrolment period, and then only if space permits.

ASC_Science

Natural and Physical Science Courses

ASTR;
ANAT;
BCHM;
BIOL;
BIOM;
BMED 270/3.0; BMED 370/3.0; BMED 372/3.0; BMED 380/3.0; BMED 381/3.0; BMED 383/3.0; BMED 384/3.0;
BMED 470/3.0; BMED 473/3.0; BMED 480/3.0; *BMED 482/3.0*; BMED 483/3.0;
CANC;
CHEE 209/3.0;
CHEM;
CISC;
COGS;
COMM 162/3.0;
COMP;
CRSS;
DDHT;
ECON 250/3.0;
ENSC 201/3.0; ENSC 301/3.0; ENSC 307/3.0; ENSC 320/3.0; ENSC 407/3.0; ENSC 425/3.0; ENSC 471/3.0; ENSC 480/3.0; ENSC 481/3.0;
EPID;
GEOL;
GLPH 472/3.0;
GPHY_Physical;
GPHY_Tech/Methods;
HLTH 230/3.0; HLTH 331/3.0;
KNPE 125/3.0; KNPE 153/3.0; KNPE 225/3.0; KNPE 227/3.0; KNPE 251/3.0; KNPE 254/3.0; KNPE 255/3.0; KNPE 261/3.0; KNPE 327/3.0; KNPE 339/3.0; KNPE 354/3.0; KNPE 355/3.0; KNPE 425/3.0; *KNPE 427/3.0*; KNPE 429/3.0; KNPE 439/3.0; KNPE 450/3.0; KNPE 454/3.0; KNPE 455/3.0; KNPE 459/3.0; KNPE 493/3.0;
LISC;
MATH;
MICR;
NSCI;
NURS 323/3.0; NURS 324/3.0;
PATH;
PHAR;
PHGY;
PHYS;
POLS 385/3.0;
PSYC 100/6.0; PSYC 101/3.0; PSYC 103/3.0; PSYC 202/3.0; PSYC 203/3.0; PSYC 205/3.0; PSYC 215/3.0; PSYC 221/3.0; PSYC 271/3.0, *PSYC 300/6.0*; PSYC 301/3.0; PSYC 302/3.0; PSYC 450/3.0; *PSYC 475/3.0*; PSYC_Cluster_A;
SOCY 210/3.0; SOCY 211/3.0;
STAT

Stage and Screen – Specialization (Arts) – Bachelor of Arts (Honours)

STSC-P-BAH

Subject: Administered by the School of Drama and Music and the Department of Film and Media.

Plan: Consists of 84.0 units as described below.

Program: The Plan, with sufficient electives to total 120.0 units (*114.0 units for students admitted prior to September 2017*), will lead to a Bachelor of Arts (Honours) Degree.

1. Core	(54.0 units)		
A.	6.0 units	from	DRAM 100/6.0; DRAM 181/6.0; BISC 100/3.0; BISC 101/3.0
B.	6.0 units	from	FILM 110/6.0 or (FILM 104/3.0 and FILM 106/3.0) or (BISC 100/3.0 and FILM 104/3.0)
C.	12.0 units	in	DRAM 205/3.0, DRAM 251/3.0, FILM 250/6.0
D.	6.0 units	from	DRAM 220/3.0; DRAM 242/3.0; <i>DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0</i>
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; FILM 260/3.0
F.	3.0 units	from	DRAM 237/3.0 or DRAM 238/3.0
G.	6.0 units	from	FILM 351/3.0; FILM 352/3.0; FILM 353/3.0; FILM 355/6.0; FILM 356/3.0; FILM 365/6.0; FILM 368/3.0; FILM 375/6.0; FILM 385/6.0
H.	6.0 units	from	STSC 300/3.0; STSC 309/3.0; STSC 339/3.0; STSC 381/3.0
I.	3.0 units	in	IDIS 410/3.0

2. Option	(30.0 units)		
A.	3.0 units	from	DRAM, FILM, MUSC, MUTH at the 400-level or above
B.	6.0 units	from	DRAM at the 300 level
C.	6.0 units	from	DRAM; STSC
D.	9.0 units	from	FILM; STSC
E.	6.0 units	from	ARTF; ARTH; MUSC; IDIS 210/3.0; IDIS 311/3.0; MUTH 231/3.0; <i>DRAM 216/3.0</i>

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

6. Notes	

INDEX Certificates

Certificates available to students registered in the Undergraduate Career (courses offered both on-campus and online):

- [DIPA](#) – Disability and Physical Activity
- [EMPR](#) – Employment Relations
- [FRPR](#) – French for Professionals
- [GAEN](#) – Global Action and Engagement
- [GISC](#) – Geographic Information Science
- [INDC](#) – Indigenous Languages and Cultures
- [INTS](#) – International Studies
- [MDIA](#) – Media Studies
- [MOHK](#) – Mohawk Language and Culture
- [QEIC](#) – Queen’s Entrepreneurship, Innovation and Creativity
- [SXGD](#) – Sexual and Gender Diversity
- [URPS](#) – Urban Planning Studies

Certificates available to students registered in the Undergraduate Online Career (all courses offered online):

- [AWRI](#) – Academic Writing
- [EMPR](#) – Employment Relations
- [FRPR](#) – French for Professionals
- [GAEN](#) – Global Action and Engagement
- [MDIA](#) – Media Studies
- [QEIC](#) – Queen’s Entrepreneurship, Innovation and Creativity

Academic Writing – Certificate

AWRI-C-AWR

Available only to students admitted to the Undergraduate Online Career.

Subject: Administered by the Writing Advisory Committee of the Faculty of Arts and Science.

Plan: Consists of 12.0 units as described below.

Program: The Plan will lead to a Certificate in Academic Writing.

1. Core	(6.0 units)		
A.	3.0 units	from	WRIT 120/3.0 or WRIT 125/3.0
B.	3.0 units	in	WRIT 225/3.0

2. Option	(6.0 units)		
A.	3.0 units	from	WRIT 240/3.0; WRIT 265/3.0; WRIT 290/3.0
B.	3.0 units	from	WRIT 240/3.0; WRIT 265/3.0; WRIT 290/3.0; AWRI_Sub

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	No more than 6.0 units of core and option courses may be counted toward the requirements of both the Certificate and another Arts and Science Program.		
B.	No more than 3.0 units of core and option courses may be transfer credits from outside Queen's University.		

Academic Writing Course List

The following list 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 Open Enrolment period, and then only if space permits.

AWRI_Sub

Academic Writing Substitutions

CWRI 295/3.0; DRAM 251/3.0

Disability and Physical Activity – Certificate

DIPA-C-DPA

Subject: Administered by the School of Kinesiology and Health Studies.

Plan: Consists of 15.0 units as described below.

Program: The Plan will lead to a Certificate in Disability and Physical Activity.

1. Core	(12.0 units)		
A.	3.0 units	from	HLTH 200/3.0 or KNPE 255/3.0
B.	9.0 units	from	KNPE 336/3.0, KNPE 436/3.0 and (HLTH 332/3.0 or HLTH 402/3.0)

2. Option	(3.0 units)		
A.	3.0 units	from	HLTH 315/3.0; HLTH 403/3.0; HLTH 404/3.0; KNPE 335/3.0; KNPE 433/3.0

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes	
A.	No more than 6.0 units of core and option courses may be counted toward the requirements of both the Certificate and another Arts and Science Program.
B.	No more than 6.0 units of core and option courses may be transfer credits from outside Queen's University.

Employment Relations – Certificate**EMPR-C-EMR****Subject: Administered by the Program in Industrial Relations.****Plan: Consists of 15.0 units as described below.****Program: The Plan will lead to a Certificate in Employment Relations.**

1. Core	(15.0 units)		
A.	15.0 units	in	EMPR 200/3.0, EMPR 210/3.0, EMPR 220/3.0, EMPR 230/3.0, EMPR 240/3.0

2. Option	(0.0 units)		

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes	
A.	No more than 6.0 units of core courses may be counted toward the requirements of both the Certificate and another Arts and Science Program.
B.	No more than 6.0 units of core courses may be transfer credits from outside Queen's University.

French for Professionals – Certificate

FRPR-C-FRP

Subject: Administered by the Department of French Studies.

Plan: Consists of 12.0 units as described below.

Program: The Plan will lead to a Certificate in French for Professionals.

1. Core	(9.0 units)		
A.	6.0 units	from	(FREN 107/3.0 and FREN 118/3.0) or FREN 150/6.0
B.	3.0 units	in	FREN 225/3.0

2. Option	(3.0 units)		
A.	3.0 units	from	FREN 236/3.0; FREN 237/3.0; FREN 238/3.0

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	Students with no French language ability will need to take one of FRST 105/3.0 or FREN 106/3.0 prior to enrolling in FREN 107/3.0. These students will need to complete 15.0 units to be eligible for the Certificate.		
B.	No more than 6.0 units of core and option courses may be counted toward the requirements of both the Certificate and another program.		
C.	No more than 6.0 units of core and option courses may be transfer credits from outside Queen's University.		
D.	FREN 107/3.0 must be taken prior to FREN 118/3.0.		

Global Action and Engagement– Certificate

GAEN-C-GAE

Subject: Administered by the Department of Global Development Studies.

Plan: Consists of 18.0 units as described below.

Program: The Plan will lead to a Certificate in Global Action and Engagement.

1. Core	(12.0 units)		
A.	12.0 units	in	DEVS 100/6.0, DEVS 280/3.0, LLCU 111/3.0

2. Option	(6.0 units)		
A.	3.0 units	from	DEVS 361/3.0 or DEVS 362/3.0
B.	3.0 units	from	GAEN_Options

3. Supporting	(0.0 units)		

4. Additional Requirements	

5. Substitutions	

6. Notes	
A.	No more than 9.0 units of core and option courses may be counted toward the requirements of both the Certificate and another program.
B.	No more than 9.0 units of core and option courses may be transfer credits from outside Queen's University.
C.	Students may take both of DEVS 361/3.0; DEVS 362/3.0

Global Action and Engagement Certificate Course List

The following list 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 Open Enrolment period, and then only if space permits.

GAEN_Options

Global Action and Engagement Options

DEVS 220/3.0; DEVS 221/3.0; DEVS 230/3.0; DEVS 240/3.0; DEVS 250/3.0; DEVS 260/3.0; DEVS 292/3.0; DEVS 293/3.0; DEVS 305/3.0; DEVS 311/3.0; DEVS 320/2.0; DEVS 330/3.0; DEVS 333/3.0; DEVS 361/3.0; DEVS 362/3.0; DEVS 392/3.0; ENGL 259/3.0; FRST 125/3.0; GLPH 271/3.0; GLPH 471/3.0; GPHY 227/3.0; HIST 200/3.0; HIST 207/3.0; HIST 214/3.0; HIST 252/3.0; HIST 270/3.0; LLCU 209/3.0

Geographic Information Science – Certificate

GISC-C-GIS

Subject: Administered by the Department of Geography and Planning.

Plan: Consists of 30.0 units as described below.

Program: The Plan, when the requirements are completed, will lead to a Certificate being awarded upon completion of any Program at Queen’s University.

1. Core	(18.0 units)		
A.	12.0 units	in	GPHY 242/3.0, GPHY 243/3.0, GPHY 247/3.0, GPHY 345/3.0
B.	6.0 units	from	GPHY 342/3.0; GPHY 344/3.0; GPHY 346/3.0; GPHY 348/3.0

2. Option	(12.0 units)		
A.	12.0 units	from	CISC 101/3.0; CISC 121/3.0; <i>CLST 351/3.0</i> ; GEOL 463/3.0; GEOL 464/1.5; GPHY 105/3.0; GPHY 310/3.0; GPHY 325/3.0; GPHY 341/3.0; GPHY 342/3.0; GPHY 343/3.0; GPHY 344/3.0; GPHY 346/3.0; GPHY 347/3.0; GPHY 348/3.0; GPHY 349/3.0; GPHY 372/3.0; GPHY 415/6.0; <i>GPHY 418/3.0</i> ; MATH

3. Supporting	(0.0 units)		

4. Additional Requirements	
A.	A maximum of 3.0 units in MATH may be used towards the Certificate.
B.	Only 3.0 units from GPHY 415/6.0 will be counted towards the Certificate in Geographic Information Science (GISC).

5. Substitutions	

6. Notes	
A.	Students may do an independent study course (i.e., GPHY 501/3.0, GPHY 594/3.0 or GPHY 595/6.0) with a faculty member in Geography and Planning on a geographic information science topic upon approval of the Undergraduate Committee. This course may be counted toward the Certificate as an option course with approval of the Undergraduate Committee.
B.	Students must pass all courses relating to the Certificate with a GPA of 1.90, and must have completed their degree program requirements in order to receive the Certificate.
C.	Students considering adding the Certificate in Geographic Information Science to their degree program should consult as soon as possible with the Department of Geography and Planning. The Certificate in Geographic Information Science will be awarded upon successful completion of a degree program at Queen’s University.

Indigenous Languages and Cultures – Certificate**INDC-C-ILC**

Subject: Administered by the Department of Languages, Literatures and Cultures in partnership with Four Directions Aboriginal Student Centre and Tsi Tyonnheht Onkwawenna Language and Cultural Centre.

Plan: Consists of 15.0 units as described below.

Program: The Plan will lead to a Certificate in Indigenous Languages and Cultures.

1. Core	(15.0 units)		
A.	9.0 units	in	MOHK 101/3.0, MOHK 102/3.0, INUK 101/3.0
B.	6.0 units	in	ANSH 101/3.0 and ANSH 102/3.0

2. Option	(0.0 units)		

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes	
A.	No more than 6.0 units of core and option courses may be counted toward the requirements of both the Certificate and another program.
B.	No more than 6.0 units of core and option courses may be transfer credits from outside Queen's University.

Plans of study for students who were admitted to the Certificate prior to May 1, 2016

International Studies – Certificate

INTS-C-INT

Subject: Administered by the International Programs Office (IPO).

Plan: Consists of 30.0 units as described below.

Program: The Plan, when the requirements are completed, will lead to a Certificate being awarded upon completion of any Program at Queen's University.

1. Core	(24.0 units)		
A.	18.0 units	from	LANG; LANG_Languages
B.	6.0 units	from	IDIS 302/3.0; INTS 306/3.0; INTS 307/3.0; INTS 321/3.0; LLCU 320/3.0; LLCU 322/3.0; LLCU 326/3.0; LLCU 327/3.0; LANG; LANG_Languages; <i>INTS 320/3.0; INTS 322/3.0; INTS 326/3.0</i>

2. Option	(6.0 units)		
A.	6.0 units	from	ARTH 245/6.0; DEVS 305/6.0; <i>DEVS 430/3.0; DEVS 431/6.0; DEVS 432/6.0</i> ; LLCU 432/6.0 or in transfer credit from a course(s) obtained during a study abroad experience at a recognized university outside Canada.

3. Supporting	(0.0 units)		

4. Additional Requirements	
A.	Breadth Requirement 1: a minimum of 6.0 units must be obtained in each of two languages.
B.	Breadth Requirement 2: 6.0 units in one language must be at a level higher than that in the other language.
C.	A maximum of 6.0 units from LANG or any LANG_Languages course code numbered #UNS (i.e. unspecified language course transfer credit).

5. Substitutions	
A.	24.0 units in the First-Year Program at the Bader International Study Centre (BISC) at Herstmonceux Castle for 2.A.
B.	6.0 units in the Upper-Year Program at the BISC, involving studies in a British or European context for 2.A.

6. Notes	
A.	Other courses may be approved for inclusion in 1.B. with permission of the International Office. To be considered for inclusion, a course must be designed to allow students to have an appreciation of cross-cultural issues, whether nationally or internationally, and help to develop students' global and intercultural awareness.
B.	The course(s) offered for 2.A. must demonstrate academic benefit derived especially from the experience of studying abroad and will usually incorporate a regional, cultural, or comparative cultural perspective.
C.	Students considering adding the International Studies Certificate to their degree program should refer to information posted on the International Programs website. The International Studies Certificate will be awarded upon completion of a degree program at Queen's University.

International Studies Course List

The following list 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 Open Enrolment period, and then only if space permits.

LANG_Languages

Courses must develop competence in at least one of the following skills: reading, writing, or speaking and listening in a language other than English.

ARAB; CHIN; FREN; GRMN; GREK; HEBR; ITLN; JAPN; LATN; LLCU 101/3.0; LLCU 102/3.0; PORT 103/3.0; PORT 104/3.0; SPAN

Except:

GREK 430/6.0; GRMN 181/3.0; GRMN 353/3.0; ITLN 210/3.0; ITLN 215/3.0; ITLN 226/3.0; ITLN 232/3.0; ITLN 233/3.0; ITLN 234/3.0; ITLN 257/3.0; ITLN 308/3.0; SPAN 247/3.0; SPAN 248/3.0; SPAN 308/3.0; SPAN 316/3.0; SPAN 328/3.0

Plans of study for students who were admitted to the Certificate after May 1, 2016

International Studies – Certificate

INTS-C-INT

Subject: Administered by the International Programs Office, in partnership with the Department of Languages, Literatures, and Cultures.

Plan: Consists of 15.0 units as described below.

Program: The Plan, in combination with a Bachelor's degree from Queen's University, will lead to a Certificate in International Studies.

1. Core	(6.0 units)		
A.	6.0 units	from	INTS_Queen's_Study-Abroad; or in transfer credit from a course(s) obtained during a study abroad experience at a recognized university outside Canada; or obtained at the Bader International Study Centre

2. Option	(9.0 units)		
A.	3.0 units	from	LANG; LANG_Languages
B.	6.0 units	from	INTS_Cross-Cultural

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	No more than 6.0 units of core and option courses may be counted toward the requirements of both the Certificate and another Arts and Science Program.		
B.	No more than 6.0 units of core and option courses (typically requirement 1.A.) may be transfer credits from outside Queen's University.		

International Studies Course Lists

The following lists contain courses offered through several 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 Open Enrolment period, and then only if space permits.

INTS_Cross-Cultural

Cross-cultural courses in the Certificate in International Studies

IDIS 302/3.0; INTS 306/3.0; INTS 307/3.0; LLCU 110/3.0; LLCU 111/3.0; LLCU 201/3.0; LLCU 205/3.0; LLCU 209/3.0; LLCU 210/3.0; LLCU 214/3.0; LLCU 247/3.0; LLCU 248/3.0; LLCU 301/3.0; LLCU 308/3.0; LLCU 309/3.0; LLCU 319/3.0; LLCU 320/3.0; LLCU 322/3.0; LLCU 326/3.0; LLCU 327/3.0; LLCU 328/3.0; LLCU 329/3.0; LLCU 340/3.0; LLCU 495/3.0

INTS_Queen's_Study-Abroad

Queen's courses that meet the study-abroad requirement of the Certificate in International Studies

BISC 100/3.0; BISC 101/3.0; ARTH 245/6.0; ARTH 380/6.0; CLST 409/6.0; DEVS 305/6.0; DRAM 271/3.0; DRAM 273/3.0; LLCU 432/6.0

LANG_Languages

Courses must develop competence in at least one of the following skills: reading, writing, or speaking and listening in a language other than English.

ANSH; ARAB; CHIN; FREN; GRMN; GREK; HEBR; INUK; ITLN; JAPN; LATN; LLCU 101/3.0; LLCU 102/3.0; MOHK; PORT; SPAN

Except:

GREK 430/6.0; GRMN 181/3.0; GRMN 353/3.0; HEBR 135/3.0; ITLN 210/3.0; ITLN 215/3.0; ITLN 226/3.0; ITLN 232/3.0; ITLN 233/3.0; ITLN 234/3.0; ITLN 257/3.0; ITLN 308/3.0; SPAN 247/3.0; SPAN 248/3.0; SPAN 308/3.0; SPAN 316/3.0; SPAN 328/3.0

Media Studies – Certificate

MDIA-C-MDA

Subject: Administered by the Department of Film and Media and the Faculty of Arts and Science.

Plan: Consists of 12.0 units as described below.

Program: The Plan will lead to a Certificate in Media Studies.

1. Core	(6.0 units)		
A.	6.0 units	in	FILM 236/3.0 and FILM 240/3.0

2. Option	(6.0 units)		
A.	6.0 units	from	MDIA_Options

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes	
A.	No more than 6.0 units of core and option courses may be counted toward the requirements of both the Certificate and another Arts and Science Program.
B.	No more than 3.0 units of core and option courses may be transfer credits from outside Queen's University.

Media Studies Course List

The following list 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 Open Enrolment period, and then only if space permits.

MDIA_Options

Media Studies Options

DRAM 205/3.0; FILM 260/3.0; FILM 300/3.0; FILM 303/3.0; FILM 308/3.0; FILM 320/3.0; FILM 335/3.0; FILM 338/3.0; FILM 340/3.0; GNDS 125/3.0; MUSC 171/3.0; POLS 313/3.0; STSC 339/3.0

MOHK-C-MOK

Available only to Tyendinaga community members and is delivered in the TTO Language and Community Centre in Tyendinaga.

Subject: Administered by the Department of Languages, Literatures and Cultures in partnership with Four Directions Aboriginal Student Centre and Tsi Tyónnheht Onkwawén:na (TTO) Language and Cultural Centre in Tyendinaga, Mohawk Territory.

Plan: Consists of 12.0 units as described below.

Program: The Plan will lead to a Certificate in Mohawk Language and Culture.

1. Core	(12.0 units)		
A.	6.0 units	in	MOHK 101/3.0, MOHK 102/3.0
B.	6.0 units	in	MOHK 201/3.0, MOHK 202/3.0

2. Option	(0.0 units)		

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			
A.			

6. Notes			
A.	No more than 6.0 units of core and option courses may be counted toward the requirements of both the Certificate and another program.		
B.	No more than 6.0 units of core and option courses may be transfer credits from outside Queen’s University.		

Entrepreneurship, Innovation and Creativity – Certificate

QEIC-C-ENT

Subject: Administered by the Dan School of Drama and Music.

Plan: Consists of 15.0 units as described below.

Program: The Plan will lead to a Certificate in Entrepreneurship, Innovation and Creativity

1. Core	(6.0 units)		
A.	6.0 units	in	ENIN 200/3.0, ENIN 400/3.0

2. Option	(9.0 units)		
A.	3.0 units	from	ENIN 301/3.0; CHEE 302/3.0
B.	6.0 units	from	INOV_Options

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			
A.	Students may substitute CHEE 310/3.0 for CHEE 302/3.0		

6. Notes			
A.	No more than 6.0 units of core and option courses may be counted toward the requirements of both the Certificate and another program.		
B.	No more than 6.0 units of core and option courses may be transfer credits from outside Queen's University.		
C.	Students who want to learn about creative <u>and</u> technical entrepreneurship may complete and count <u>both</u> ENIN 301 and CHEE 302 toward the 15.0 credits required for this <i>Certificate</i> . Students who opt to complete and count <u>both</u> ENIN 301 and CHEE 302 only need to complete 3.0 credits from the list of eligible "Innovation-Centric" courses above.		

Innovation, Entrepreneurship and Creativity Certificate Course List

The following list 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 Open Enrolment period, and then only if space permits.

INOV_Options

Innovation-Centric Options

BMED 271/3.0; BMED 471/3.0; COCA 201/3.0; COMM 201/3.0; ENIN 140/3.0; ENIN 204/3.0; ENIN 205/3.0; ENIN 207/3.0; ENIN 240/3.0; ENIN 340/3.0; GLPH 271/3.0; GLPH 471/3.0; IDIS 280/3.0; LAW 204/3.0; WRIT 250/3.0

Sexual and Gender Diversity – Certificate

SXGD-C-CSD

Subject: Administered by the Department of Gender Studies.

Plan: Consists of 30.0 units as described below.

Program: The Plan, when the requirements are completed, will lead to a Certificate being awarded upon completion of any Program at Queen’s University.

1. Core	(3.0 units)		
A.	3.0 units	in	GNDS 215/3.0

2. Option	(27.0 units)		
A.	3.0 units	from	any course in any department that has a major written assignment or two minor written assignments on the intersection of race and sexual and/or gender diversity.
B.	24.0 units	from	any course in any department that has a major written assignment or two minor written assignments on the subject of sexual and/or gender diversity.

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes			
A.	All courses must be approved by the Certificate Coordinator.		
B.	Students must pass all courses relating to the certificate with a minimum cumulative Grade Point Average of 1.90.		
C.	Students considering adding the Certificate in Sexual and Gender Diversity to their degree program should consult as soon as possible with the Certificate Coordinator in the Department of Gender Studies regarding course selection. The Certificate Coordinator will track students’ progress throughout the certificate program and approve on an annual basis the selection and appropriate completion of coursework.		

Urban Planning Studies – Certificate**URPS-C-UPS**

Subject: Administered by the Department of Geography and Planning.

Plan: Consists of 12.0 units as described below.

Program: The Plan will lead to a Certificate in Urban Planning Studies.

1. Core	(6.0 units)		
A.	6.0 units	in	GPHY 227/3.0, GPHY 228/3.0

2. Option	(6.0 units)		
A.	6.0 units	from	GPHY 243/3.0; GPHY 330/3.0; GPHY 332/3.0; GPHY 336/3.0; GPHY 337/3.0; GPHY 338/3.0; GPHY 370/3.0

3. Supporting	(0.0 units)		

4. Additional Requirements			

5. Substitutions			

6. Notes	
A.	Students opting to enrol in GPHY 370/3.0 Special Topics in Human Geography need to be approved by the Associate Head of Undergraduate Studies.
B.	No more than 6.0 units of core and option courses may be counted toward the requirements of both the Certificate and another program.
C.	No more than 6.0 units of core and option courses may be transfer credits from outside Queen's University.

Notes

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OVERVIEW

Arts and Science Online (ASO), also known as Continuing and Distance Studies (CDS), is the unit that administers Distance Studies in the Faculty of Arts and Science. Online courses are offered for university credit in the standard Fall, Winter and Summer Terms. Online courses are intended for on-campus Queen’s students seeking scheduling flexibility, for degree and non-degree students studying at a distance, and for visiting students from other universities. ASO also offers the following degree and certificate programs that can be completed fully online:

Bachelor of Arts (BA) Degrees

English
Global Development Studies
History
Liberal Studies
Psychology

Bachelor of Science (BSc) Degree

Life Sciences

Certificates

Academic Writing
Employment Relations
Entrepreneurship, Innovation
and Creativity
French for Professionals
Global Action and Engagement
Media Studies

ONLINE COURSES

The online courses offered through CDS uphold the level of educational quality associated with Queen’s University by using best practices in online learning to guide the development and teaching of online courses, by working collaboratively with academic departments to plan course and program offerings, and by maintaining the academic standards of the Faculty.

Arts and Science online courses share the same learning outcomes as the equivalent face-to-face classroom courses. Instructors will engage with students individually and collectively, guide their learning and assess their achievements. Students can expect instructors to set clear academic standards, to provide constructive feedback throughout the course and to provoke critical thinking.

Online courses are offered in the following disciplines:

Astronomy
Art History
Biology
Chemistry
Classics
Computing
Creative Writing
Drama
Economics

English Language and Literature
Film and Media
French Studies
Gender Studies
Geography
Global Development Studies
Health Studies
History
Law
Mathematics

Music
Philosophy
Physics
Psychology
Religious Studies
Sociology
Statistics
Writing

For a complete list of online course offerings by academic term, please visit the ASO website:

www.queensu.ca/artsci_online

ADVICE TO ON-CAMPUS STUDENTS

Online courses are considered equivalent to on-campus courses and count toward a Queen’s degree in the same way as on-campus courses. Online courses are intended to supplement offerings for on-campus students and to provide them with flexibility and choice. On-campus students are not required to take online courses; they are simply an option. On-campus students may begin enrolling in online courses after their first year at Queen’s. The Faculty of Arts and Science encourages first year on-campus students to take part in the classroom experience to help with the transition from high school.

Queen's **Commerce, Engineering and Applied Science** and **Nursing** students who have been admitted into a Dual Degree program can take many online courses through ASO to support the completion of a Dual Degree in **English, Global Development Studies, History, Life Sciences** and **Psychology**. This option may help students access courses necessary to complete their dual degree requirements.

Admission Regulations

Notes

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World Wide Web Address www.queensu.ca/admission

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** to **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 study online.

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**
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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.

1.1 – Tests of Facility in English

Applicants who have neither lived in a country in which English is the acknowledged primary language nor 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) – 6.5 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.
- (v) Pearson Test of English Academic (PTE Academic) – an overall score of 60.

1.2 – Waiver of English Language Facility Test

Applicants who have neither lived in a country in which English is the acknowledged primary language nor 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, and who have successfully completed the 12-week English for Academic Purposes program or the QBridge Program at Queen's School of English, may have the English language facility test waived.

Students who do not meet the minimum English language facility requirement as outlined in Admission Regulation **1.1** may, if they meet all other academic requirements and are otherwise academically competitive with other students within the admission category under which they apply, be admitted conditionally, provided that they register in either the QBridge Accelerated Program or the QBridge English for Academic Purposes Program offered by the Queen's School of English, Faculty of Education.

1.2.1 – QBridge Accelerated Program (QBA)

Students who achieve a minimum score of 6.0 or above on the International English Language Testing System (IELTS) – Academic Module, or a similar score on one of the other accepted tests of facility in English, may be offered admission to the QBA Program during the Summer Term immediately preceding the Fall Term in which students expect to be admitted to the Faculty.

Students who are enrolled in the University Preparation Level – Accelerated EAP 160 course may not simultaneously enrol in any degree-credit course in the Faculty of Arts and Science.

Admission to the Faculty of Arts and Science on an unconditional basis will take place in the Fall Term subsequent to the Summer Term in which the QBA course University Preparation Level – Accelerated (EAP 160) is successfully completed with a minimum grade of B.

If students do not meet the minimum requirements of the QBA Program, they may request permission from Undergraduate Admission to register in the subsequent Fall Term in the English for Academic Purposes – Extended Program. Satisfactory completion of the University Preparation Level – Advanced (EAP 150) course with a minimum grade of B may then qualify the student for admission to the Faculty of Arts and Science in either the Winter Term or the following Fall Term. If students fail to meet the progression requirements of the School of English, any conditional offer of admission to the Faculty of Arts and Science will be void.

1.2.2 – QBridge English for Academic Purposes Program (EAP)

Students who achieve a minimum score of 5.0 or above on the International English Language Testing System (IELTS) – Academic Module, or a similar score on one of the other accepted tests of facility in English, may be offered

admission to the EAP program. The EAP program is offered in the Fall and Winter Terms preceding the Fall Term in which students expect to be admitted to the Faculty.

Students who are enrolled in the University Preparation Level – Advanced EAP 140 or 150 course in the Fall or Winter Term may simultaneously enrol in 3.0 units only of degree-credit courses within the Faculty of Arts and Science. The courses available to the students shall be determined by the Associate Dean (Studies). In addition, these students will be required to enrol in the English Language Support Program (EAP 701) within the Queen’s School of English.

Admission to the Faculty of Arts and Science on a limited basis will take place in the Winter Term subsequent to the Fall Term in which one of the following EAP courses is successfully completed:

- (i) University Preparation Level (EAP 140) with a minimum grade of A-;
- OR
- (ii) University Preparation Level (EAP 150) with a minimum grade of B.

Students who successfully complete EAP 140 or EAP 150 in the Fall Term will be able to enrol in up to 9.0 units of degree-credit courses during the Winter Term following completion of the EAP course. The courses available to the students shall be determined by the Associate Dean (Studies). In addition, these students will be required to enrol in the English Language Support Program (EAP 702) within the Queen’s School of English.

Admission to the Faculty of Arts and Science on an unconditional basis will take place in the Fall Term subsequent to the Winter Term in which one of the following EAP courses is successfully completed:

- (i) University Preparation Level (EAP 140) with a minimum grade of A-;
- OR
- (ii) University Preparation Level (EAP 150) with a minimum grade of B.

If students do not meet the minimum requirements of the EAP Program, they may request permission from Undergraduate Admission to register in the subsequent Summer Term in the QBridge Accelerated Program. Satisfactory completion of the University Preparation Level – Advanced EAP 150 course with a minimum grade of B will then qualify the student for admission to the Faculty of Arts and Science in the Fall Term. If students fail to meet the progression requirements of the Faculty of Education, any conditional offer of admission to the Faculty of Arts and Science will be void.

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

Students seeking admission to a certificate, diploma or degree program must present the Ontario Secondary School Diploma (OSSD) and a minimum of six 4U/4M courses including ENG4U (or EAE4U or FRA4U). All specific subject requirements must be 4U or 4M. Specific subject requirements for various degree programs are outlined below.

To be considered for admission, students must have a minimum overall average of 75 per cent on six 4U/4M courses, one of which must be ENG4U (or EAE4U or FRA4U).

A Personal Statement of Experience (PSE) is recommended but not mandatory.

2.2 – Specific Requirements

	<i>Degree Program</i>	<i>Prerequisite Courses</i>	<i>Additional Information</i>
2.2.1	Bachelor of Arts (Honours and General)	English (ENG4U); Two 4U courses; Three additional 4U/4M courses.	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 (Honours)	English (ENG4U); Advanced Functions (MHF4U); Calculus and Vectors (MCV4U); Two of Biology (SBI4U), Chemistry (SCH4U), or Physics (SPH4U); One additional 4U/4M course.	Applicants who have attained satisfactory grades in all five of Advanced Functions, Calculus and Vectors, Biology, Chemistry and Physics will have met the course 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 Science (General in Life Sciences)	English (ENG4U); Biology (SBI4U); Chemistry (SCH4U); One of Advanced Functions (MHF4U), Calculus and Vectors (MCV4U) or Data Management (MDM4U); Two additional 4U/4M courses.	
2.2.4	Bachelor of Computing (Honours)	ENG4U; Advanced Functions (MHF4U); Calculus and Vectors (MCV4U); Three additional 4U/4M courses.	
2.2.5	Bachelor of Fine Art (Honours)	English (ENG4U); One additional 4U course; Four additional 4U/4M courses.	Admission is based on a portfolio examination. Visual Art (AVI4M) is also recommended.
2.2.6	Bachelor of Music	English (ENG4U); One additional 4U course; Four additional 4U/4M courses.	All applicants require Royal Conservatory Advanced Rudiments or equivalent examination from another conservatory program, as well as the following level of accomplishment on their major instrument: (i) Conservatory Grade IX Piano; or (ii) Conservatory Grade VIII Organ and Grade VIII Piano; or (iii) Conservatory Grade VIII Standard Orchestral or Band Instrument; or (iv) Conservatory Grade VIII Classical Guitar; or (v) Conservatory Grade VIII Voice. All candidates are also required to audition in person or may send a recording with prior approval of the School of Drama and Music.
2.2.7	Bachelor of Science (Honours) - Kinesiology Specialization Plan	English (ENG4U); Advanced Functions (MHF4U); Biology (SBI4U); Two of Calculus and Vectors (MCV4U), Chemistry (SCH4U) or Physics (SPH4U); One additional 4U/4M course.	

2.2.8 – Faculty of Arts and Science/Faculty of Education Concurrent Programs

Applicants must satisfy the admission requirements for the desired Arts, Fine Art, Music and Science degree programs as described above. Programs that may be completed concurrently with a B.Ed. include: Bachelor of Arts (Honours), Bachelor of Fine Art (Honours), Bachelor of Music, Bachelor of Science (Honours).

2.2.9 – Certificate and Diploma Programs

Within the required six 4U/4M courses listed above in 2.1, applicants must present a minimum of **three** 4U courses, including ENG4U. There are no additional specific secondary school subject requirements for admission to any of the Certificate or Diploma programs.

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 in unspecified transfer credit.

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. Applicants who have not completed the required high school science prerequisites may instead provide the applicable SAT II test 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 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:

<u>AP Grade</u>	<u>Queen's Equivalent</u>
5	A
4	B
3 or less	no transfer

In no case shall an evaluative grade be placed on the transcript for a transfer credit (see Academic Regulation 10.2.6).

3.4 – General Certificate of Education (GCE) Systems

Candidates from systems offering the General Certificate of Education must normally offer seven subjects, at least three 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:

<u>A-level Grade</u>	<u>Queen's Equivalent</u>
A, A*	A
B	B
C or lower	no transfer

In no case shall an evaluative grade be placed on the transcript for a transfer credit (see Academic Regulation **10.2.6**).

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 3 Pre-U Principal 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:

<u>Pre-U Grade</u>	<u>Queen's Equivalent</u>
D1, D2, D3	A
M1, M2, M3	B
C or lower	no transfer

In no case shall an evaluative grade be placed on the transcript for a transfer credit (see Academic Regulation **10.2.6**).

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:

<u>IB Grade</u>	<u>Queen's Equivalent</u>
7	A
6	B
5	C
4 or lower	no transfer

In no case shall an evaluative grade be placed on the transcript for a transfer credit (see Academic Regulation **10.2.6**).

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:

<u>FB Grade</u>	<u>Queen's Equivalent</u>
16-20	A
14-15.99	B
12-13.99	C
11.99 or lower	no transfer

In no case shall an evaluative grade be placed on the transcript for a transfer credit (see Academic Regulation **10.2.6**).

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 Ontario 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 and may receive up to 18.0 units in unspecified transfer credits. Applicants must have the equivalent to a minimum Queen's cumulative GPA of 2.90 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 unspecified 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 capacity to accommodate transfer students from other accredited post-secondary institutions and from other Faculties and Schools at Queen's. However, the admission process is highly competitive and preference is given to those applicants with the strongest qualifications.

5.1.1 – First-Year Transfer

Applicants with fewer than the equivalent of 24.0 units (or 8 one-term post-secondary 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 may be considered for admission to first year and should consult Admission Regulations **2-4** to learn secondary school requirements. Students' post-secondary and high school marks will be considered in the admissions assessment.

5.1.2 – Upper-Year Transfer

Due to enrolment pressure on campus, a small number of Arts and Science departments, programs and Plans are unable to accommodate upper-year transfer students. Others may have admission criteria that exceed the minimum stated below. Applicants should consult the Faculty of Arts and Science website (<http://www.queensu.ca/artsci/think-and-apply/transfer>) for a list of departments currently accepting upper-year transfer students. Note that once admitted to on-campus studies in the Faculty of Arts and Science, upper-year transfer students who complete a minimum of 24.0 units, including failures, in the Faculty of Arts and Science at Queen's will be permitted to transfer in

subsequent years into a different Plan, provided they meet the current minimum academic requirements for access to the specific Plan. This may require retaking courses at Queen's.

Transfer students with the equivalent of at least 24.0 units (or 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 4 of an Arts and Science degree program.

Students wishing to transfer from Distance Studies to studies on campus in the Faculty of Arts and Science will be considered for upper-year admission only.

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 Admission Regulation 5.1 above. Applicants who have not completed a Bachelor's 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 2.60 to be considered. 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.

Applicants who have completed a minimum of 24.0 units and less than 48.0 units, including failures, at another accredited post-secondary institution must have the equivalent of a Queen's cumulative GPA of 2.60 in all courses taken. In addition, applicants must satisfy appropriate departmental criteria that may exceed these minimums.

Applicants who have completed at least 48.0 units at another accredited post-secondary institution must have the equivalent of a Queen's cumulative GPA of 2.60 in all units completed in the most recent two years of study. For applicants who have completed less than 48.0 units in the last two years of study, all units completed in each previous term will be included in the GPA, until at least 48.0 units is reached. In addition, applicants must satisfy appropriate departmental criteria that may exceed these minimums.

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 when the B.F.A.(Hons.) and B.Mus. programs and the B.Sc.(Hons.) program – Kinesiology Plan are open to upper-year transfer students, they have specialized entry requirements as outlined below.

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

Depending on the number of units completed elsewhere, 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, as defined above, to be considered, 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

Depending on the number of units completed elsewhere, applicants who wish to transfer to the B.Mus. program must have the equivalent of a minimum Queen's cumulative GPA of 2.60, as defined above, 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.Sc.(Hons.) Program – Kinesiology Plan from Another Accredited Post-Secondary Institution

Applicants who wish to transfer into the B.Sc.(Hons.) program – Kinesiology Plan do not need to meet any specialized entry requirements, but must meet the minimum cumulative GPA and departmental requirements. Candidates should also have the relevant specific high school prerequisites stated in Admission Regulation **2.2**.

5.2.4 – Concurrent B.Ed. Program Closed to Transfer

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

5.2.5 – Transfer to Distance Studies

Applicants who wish to transfer into Distance studies in the Faculty of Arts and Science at Queen's University must meet all the general requirements for upper-year transfer from another accredited post-secondary institution, and may apply to transfer as a Distance Degree or Certificate Program candidate or as a Non-Degree Interest candidate (Admission Regulation **11.4**). Application as a Non-Degree Interest candidate without documentation (Admission Regulation **11.4.1**) is not available to candidates who have been required to withdraw from their previous post-secondary institution in the past 12 months. Candidates who gain admission while under an academic penalty of withdrawal may be considered in violation of Academic Regulation **1** governing academic integrity.

For admission procedures see Admission Regulations **12.1**, **12.2**, **13.1** and **13.2**.

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

All applicants should note the general requirements and limitations in Admission Regulation **5.1** above. Applicants who wish to transfer to on-campus studies in 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 **13.8**). Enrolment limitations or lack of prerequisites may result in the denial of an application to transfer.

The previous academic record of a cross-faculty 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 **10**). 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 **10**).

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 when the B.F.A.(Hons.) and B.Mus. programs are open to upper-year transfer students, they have specialized entry requirements as outlined below.

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

Applicants who wish to transfer to the B.F.A.(Hons.) Program must submit, for review, a portfolio and an accompanying letter of art experience and goals. Applicants who have successfully completed ARTF 105/6.0 and ARTF 110/6.0 will be considered for upper-year admission. If admitted to first year, students must complete ARTF 127/6.0 and ARTF 128/6.0. Note that as these courses are exclusions to ARTF 105/6.0 and ARTF 110/6.0, students shall lose credit for ARTF 105/6.0 and ARTF 110/6.0. If admitted to the second year of the program, with successful

completion of the technical skills and the WHMIS training components of ARTF127/6.0, ARTF 105/6.0 and ARTF 110/6.0 will be used in lieu of ARTF 127/6.0 and ARTF 128/6.0 in the Visual Art Major Plan requirements. Transfer into second year is extremely rare.

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 121/6.0 or MUSC 124/6.0 will be expected to pass an audition in addition to meeting academic requirements. Applied Study courses MUSC 124/6.0, MUSC 224/6.0, MUSC 324/6.0, MUSC 424/6.0 will be used in lieu of MUSC 121/6.0, MUSC 221/6.0, MUSC 321/6.0, MUSC 421/6.0 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 – 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.

5.3.4 – Transfer to Distance Studies

Current or former students of other Faculties and Schools at Queen’s University are not eligible to apply to transfer to Distance studies in the Faculty of Arts and Science unless a) they have established a new basis of admission by completing courses at another post-secondary institution; or b) they have graduated from Queen’s and are applying for a second degree through Distance studies.

Note that former Queen’s students who have graduated may be eligible for post-degree studies on campus in the Faculty of Arts and Science (for admission procedures see Admission Regulation **12.4**). All current on-campus Queen’s students can take online courses without transferring to Distance studies.

For admission procedures see Admission Regulations **12.1**, **12.2** and **13.1**.

5.4 – Transfer Between Distance and On-Campus Studies in the Faculty of Arts and Science

Current or former Distance students wishing to transfer to studies on campus in the Faculty of Arts and Science will only be considered for upper-year admission, i.e. after completing a minimum of 24.0 units. They must meet the entry requirements outlined below, and will be subject to the same enrolment limitations as transfer students from other Faculties or Schools at Queen’s. Students who entered Distance studies as Non-Degree Interest candidates without documentation need to meet all progression criteria in Admission Regulation **11.4.2** in addition to the entry requirements below before they can be considered for transfer to on-campus studies. All applicants should note the general requirements and limitations in section **5.1** above.

Applicants who wish to transfer to on-campus studies in the Faculty of Arts and Science from Distance studies must, as a minimum, have a cumulative GPA of 1.60 on a minimum of 24.0 units taken at Queen’s. 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 **13.8**). Lack of prerequisites may result in the denial of an application to transfer.

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.

Current or former on-campus Arts and Science students are not eligible to apply to transfer to Distance studies unless a) they have established a new basis of admission by completing courses at another post-secondary institution; or b) they have graduated from Queen’s and are applying for a second degree through Distance studies.

Note that former Arts and Science students who have not yet graduated may be eligible to return to studies on campus in the Faculty. Former Queen's students who have graduated may be eligible for post-degree studies on campus in the Faculty of Arts and Science. All current on-campus Queen's students can take online courses without transferring to Distance studies.

For admission procedures see Admission Regulations **12.4** and **12.5**.

5.5 – Transfer between Programs within the Faculty of Arts and Science

For admission procedures for applicants currently enrolled in any on-campus 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 **12.5**.

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.

5.6 – Counting of Transfer Credit

Students who once registered in the Faculty of Arts and Science and then subsequently transferred 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 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 24.0 units (or 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;

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.

- (iv) have a minimum cumulative GPA of 2.60;
- (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 **12.3**.

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 Science 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).

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 standing² and must satisfy departmental criteria. Students who wish to pursue a second degree in the B.Mus. program 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 2.60 to be considered. Students must satisfy departmental criteria that may exceed these minimums. In addition, the second degree must be in a substantially different Plan from that of the first degree.

7.3 – Students 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 2.60 to be considered. 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 **12.1**, **12.2** and **13.1**.

² "Good academic standing" in the Faculty of Arts and Science is defined as having a minimum cumulative GPA of 1.60 and therefore not being placed on probation or under a requirement to withdraw.

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: Admission Policy for First-Generation Candidates

To encourage participation in post-secondary education by First-Generation students, the Faculty of Arts and Science offers First-Generation candidates, including Crown Wards, an additional and alternative admission pathway to the first year of a full-time, first-entry undergraduate degree program.

Offers of admission will be made to First-Generation candidates whose total application shows strong evidence of academic preparedness and potential. Students who are admitted under this policy will be encouraged to make use of the academic advising and academic support services available to all students at Queen's University. The Student Experience Office, Student Academic Support Services, Student Awards Office and academic advising provided by the Faculty or School are important resources for First-Generation students. In addition, the students will be introduced to the contacts and services available at the Student Experience Office and the Student Awards Office during the application process, upon admission, and during Orientation. Queen's University encourages students to access these services throughout their time at Queen's.

9.1 – Conditions, Deadlines, and General Requirements for Applicants

Candidates must apply through the Ontario Universities' Application Centre (OUAC) and should expect to meet the general admission conditions for each program (at minimum the University admission average) and deadlines for

undergraduate admission, including completion of the Personal Statement of Experience (PSE) and supplementary essay, portfolio or audition where required.

9.2 – Documents and Information Required as a Basis for Consideration

Candidates seeking admission consideration under this policy should submit a separate letter to Undergraduate Admission stating that they wish to be considered under this policy, and provide a letter of support from either their local Pathways to Education, Boys and Girls Club of Canada, or Crown Ward Coordinator. Candidates must be registered with their local Pathways to Education or Boys and Girls Club, or as a Crown Ward in order to qualify for this alternative pathway. In addition to the student's PSE, admission to Queen's University will depend on the assessment of the student's program prerequisites (or equivalencies) as well as the student's overall average. The number of students admitted each year under this policy will be determined in the annual enrolment plan upon consultation with the Faculties and Schools.

Admission Regulation 10: Auditors

Students may apply to audit any course in the Faculty of Arts and Science, except for online 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 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 complete a Registration Form and submit it to the Office of the University Registrar. A registration fee will apply.

Admission Regulation 11: Part-Time Admission on Probation

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 3.3).

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 and courses for which credit standing or aegrotat standing has been assigned, 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 criteria for further registration and may not take further courses in the Faculty of Arts and Science. Such students will have the standing "Not Eligible to Proceed" placed on their transcript. Students may not appeal this standing because it is the direct result of a particular level of academic performance.

Students who are deemed "Not Eligible to Proceed" may apply for readmission to Queen's only if they establish a new basis of admission by completing courses at another post-secondary institution. For these students, both the

cumulative GPA achieved in courses taken at Queen's and the cumulative GPA achieved in courses taken elsewhere will be considered in the admission decision.

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 criteria for further registration, 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 **3.3**).

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 and courses for which credit standing or aegrotat standing has been assigned, 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 **3.3**:

- (i) They have completed a minimum of 24.0 Queen's units, excluding repeated courses and courses for which credit standing or aegrotat standing has been assigned, 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 and courses for which credit standing or aegrotat standing has been assigned, 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 – Students Studying under a Formal Agreement

Students from post-secondary institutions with which Queen's has a formal agreement, such as an exchange agreement, can be nominated by their home institution to study in the Faculty of Arts and Science.

Details on admission requirements and admission procedures are available from the International Programs Office.

12.2 – Post-Degree Students from Queen's University

Students who have completed an undergraduate degree from any Faculty or School at Queen's University, including students registered in the School of Graduate Studies or Professional schools 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 12.4.3.)

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 to register as post-degree students. Such students will be restricted to online courses offered through Arts and Science Online only. (See Admission Regulation 12.4.3.2.)

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 using a Letter of Permission. Visiting students are restricted to online courses offered through Arts and Science Online.

For admission procedures see Admission Regulation **13.2**.

12.4 – Interest Candidates

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. Such students are restricted to online courses offered through Arts and Science Online. Current or former Queen's students are not eligible to apply for Distance studies in the Faculty of Arts and Science unless a) they have established a new basis of admission by completing courses at another post-secondary institution; or b) they have graduated from Queen's and are applying for a second degree through Distance studies (see Admission Regulations **5.3** and **5.4**). All current on-campus Queen's students can take online courses without transferring to Distance studies.

12.4.1 – Documentation (for students with a basis of admission)

Applicants may be admitted as non-degree students without course load limitations provided their previous academic studies meet the minimum admission standards (as detailed elsewhere in the Admission regulations), including a completed degree at another post-secondary institution, incomplete studies at another post-secondary institution, and secondary school studies.

12.4.2 – No documentation (for students who do not provide a basis of admission)

Applicants who do not meet Queen's University minimum admission standards or the minimum admission standards for entry into the Faculty of Arts and Science, or who do not provide the appropriate documentation, may be admitted as non-degree candidates without documentation provided they have completed the Ontario Secondary School Diploma or equivalent, or are at least 21 years of age in the calendar year of admission. Such candidates are subject to the following course load limitations.

12.4.2.1 – Enrolment Limitations

Non-degree students admitted without documentation may initially only enrol in one course at a time to a maximum of 6.0 units. The course may be taken during any term. Should the student be admitted to a degree or certificate

program in a later term, courses taken as a non-degree student would count toward towards the completion of the degree or certificate program.

12.4.2.2 – Criteria for Further Registration

In order to be eligible to continue to register for courses, non-degree students without documentation must first complete at least 6.0 units of courses offered for degree credit by the Queen's Faculty of Arts and Science with a minimum cumulative GPA of 1.60, excluding repeated courses and courses for which credit standing or aegrotat standing has been assigned. Students who meet these conditions may continue as non-degree students with a registration enrolment limit of 9.0 units per term.

12.4.2.3 – Failure to Meet Criteria for Further Registration

Students who fail to obtain a minimum cumulative GPA of 1.60 on the first 6.0 units of courses have not met the criteria for further registration and may not take further courses in the Faculty of Arts and Science. These students will have the standing "Not Eligible to Proceed" placed on their transcript. Students may not appeal this standing because it is the direct result of a particular level of academic performance.

Students who are deemed "Not Eligible to Proceed" may apply for readmission to Queen's only if they establish a new basis of admission by completing courses at another post-secondary institution. For these students, both the cumulative GPA achieved in courses taken at Queen's and the cumulative GPA achieved in courses taken elsewhere will be considered in the admission decision.

12.4.2.4 – Incomplete (IN) or Grade Deferred (GD) Standing

Students who have been assigned Incomplete (IN) or Grade Deferred (GD) standing in a course will not be permitted to register for further courses until the grades are resolved.

12.4.2.5 – Rights and Responsibilities

Students admitted as non-degree candidates without documentation 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.

12.4.2.6 – Eligibility for Studies on a Distance Degree or Certificate Program

In order to be eligible to apply to a distance degree or certificate program, students admitted as non-degree candidates without documentation must:

- (i) Complete a minimum of 18.0 units in the Faculty of Arts and Science from the time at which they were admitted, excluding repeated courses and courses for which credit standing or aegrotat standing has been assigned; *and*
- (ii) Achieve a minimum cumulative GPA of 1.60.

Successful applicants may continue on a distance degree or certificate program with a registration enrolment limit of 9.0 units per term, until they meet the criteria for having this enrolment limitation removed (see Admission Regulation 12.4.2.7.2).

12.4.2.7 – Removal of Enrolment Limitations

The registration enrolment limitations placed on students admitted as non-degree candidates without documentation may be lifted only after such students first successfully meet the criteria for further registration, and then complete additional courses to fulfill the Faculty's normal requirements for progression from part-time to full-time studies on a degree program (see Academic Regulation 3).

12.4.2.7.1 – Step 1: Meeting Criteria for Further Registration

First, students must meet the following conditions to be allowed to enrol in further courses:

- (i) Complete 6.0 units in the Faculty of Arts and Science from the time at which they were admitted, excluding repeated courses and courses for which credit standing or aegrotat standing has been assigned; *and*
- (ii) Achieve a minimum cumulative GPA of 1.60.

11.4.2.7.2 – Step 2: Removal of Enrolment Limitations

Second, students who have met the criteria for further registration will have their registration enrolment limitations removed 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 and courses for which credit standing or aegrotat standing has been assigned; *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 and courses for which credit standing or aegrotat standing has been assigned; *and*
 - (ii) Achieved a minimum cumulative GPA of 2.90.

For admission procedures see Admission Regulation 14.2.

Admission Regulation 13: Application Procedures to Study on Campus

This section 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, from another post-secondary institution (Admission Regulation 5), or from Distance studies, apply through the Ontario Universities' Application Centre. Candidates for admission to first degree full-time studies on campus will be considered for Fall Term entry only. No other full-time entry point is possible. Applicants for Second Degrees and applicants who wish to transfer to the Faculty of Arts and Science will be considered for either Summer or Fall Term entry. 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 31 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. Applicants who have been registered in Distance Studies in the Faculty of Arts and Science will be considered for upper-year admission only.

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 Distance Studies, 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. Applicants who have been registered in Distance Studies in the Faculty of Arts and Science will be considered for upper-year admission only.

Students admitted to part-time studies are limited to register in no more than 60 per cent of a full course load, or up to 9.0 units per term. Upon satisfying the conditions for full-time studies (see Academic Regulation **3**), the enrolment limitation will be lifted and students will be eligible for full-time studies.

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, Winter or Summer 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*). 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.

Candidates are considered for Summer Term entry based on the cumulative GPA on the final grades available at the time of application. If, at the end of the Summer Term, the cumulative GPA based on all the student's final grades falls below the minimum required cumulative GPA, the student will be discontinued from the Dual Degree program.

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 – Part-Time on Probation

Candidates eligible to be admitted part-time on probation (Admission Regulation **10**) 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 must first meet their conditions of probation before being admitted to the Faculty part-time on a degree program.

13.4.2 – Students Studying under a Formal Agreement

Students from post-secondary institutions with which Queen's has a formal agreement, such as an exchange agreement, will be considered for Fall and Winter Term entry. Admission requirements and admission procedures are available from the International Programs Office.

13.4.3 – Post-degree

Post-degree students whose first undergraduate 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 an undergraduate degree program at Queen's in the Undergraduate Career 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* section of the *Calendar*).

Queen's graduates must apply for readmission 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 two- or three-year diploma program at a 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. Such students will be restricted to online courses offered through Arts and Science Online only. 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 on-campus studies 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 on-campus 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.Cmp.(Hons.), B.Cmp., B.Sc.(Hons.) or B.Sc. 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 must contact the Faculty Office, Student Services, and will be required to meet the minimum requirements as outlined in Admission Regulation **5**.

13.5.2 – Former Arts and Science Students

13.5.2.1 – Readmission

All former Arts and Science students must apply for readmission 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 two- or three-year diploma program at another post-secondary institution.

13.5.2.2 – 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, but did not complete a two- or 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).

13.5.2.3 – 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 to Study Online

Distance studies offer access to online studies in the Faculty of Arts and Science. Distance studies are intended to provide opportunities to students who are physically distant from the Kingston campus and to those who prefer to study online. In addition, because of the physical space constraints on campus, most non-degree students are restricted to studies via distance. Distance studies are not suitable for students whose goal is to study on campus.

All candidates for admission to Distance studies in the Faculty of Arts and Science apply through the Arts and Science Online website at http://www.queensu.ca/artsci_online/apply. Candidates for admission to Distance 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 12. Applicants who have been registered in Distance studies in the Faculty of Arts and Science will be considered for upper-year admission only and will be subject to the same entry requirements and enrolment limitations as other upper-year transfer students, detailed in Admission Regulation 5.

14.1 – Admission to an Distance Degree, Diploma or Certificate Program

Candidates for Distance studies on a degree, diploma 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 and diploma programs (Admission Regulation 2.2.10), and applicants who wish to transfer to the Faculty of Arts and Science on a degree or certificate program from another post-secondary institution (Admission Regulation 5).

All current on-campus Queen's students are able to enrol in online courses offered by Arts and Science Online.

14.2 – Admission to Non-Degree Distance Studies

Non-degree Distance 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.

14.2.2 – Interest Candidates

Candidates who wish to take online courses in the Faculty of Arts and Science out of interest or for professional certification, provided they have completed at minimum the Ontario Secondary School Diploma or equivalent, or are at least 21 years of age in the calendar year of admission.

Candidates who are admitted to the Faculty of Arts and Science for non-degree Distance studies and who wish to be admitted to a degree program must apply through Undergraduate Admission.

14.2.3 – 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 *do not* hold an undergraduate degree from Queen's and wish to take online courses in the Faculty of Arts and Science.

Admission Regulation 15: Application Procedures for Study at the Bader International Study Centre

Students in the Faculty of Arts and Science may participate in the Upper-Year Program at the Bader International Study Centre (BISC) by completing a Campus Change Form through Undergraduate Admission. Students must have completed a minimum of 24.0 units at Queen's and must be in good academic standing (see Academic Regulation 13.3.2).

Students who have been admitted to the Faculty of Arts and Science in the Interest (see Admission Regulation **12.4**) or Part-Time on Probation (see Admission Regulation **11**) category must meet the criteria for further registration prior to being able to register at the BISC.

Applicants wishing to participate in the First-Year Program at the BISC should refer to Admission Regulation **2**.

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/arts/academic-calendar> for the regulations that are currently in effect.

In all regulations that refer to decisions made by the instructor, the instructor may choose to delegate responsibility for those decisions as appropriate.

The following is a summary of the Academic Regulations with references to 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**
- 18 **Jurisdiction**

Academic Regulation 1: Academic Integrity

1.1 – Introduction

1.1.1 – Definition

According to the International 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, and the quality of courage. 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 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 *Academic Integrity Policy*, “adherence to the values expressed through academic integrity forms a foundation for the ‘freedom of inquiry and exchange of ideas’ essential to the intellectual life of the University”. As a member of the International Centre for Academic Integrity (ICAI), Queen’s subscribes to its definition of academic integrity. In “The Fundamental Values of Academic Integrity (2nd Edition)”, the ICAI offers the following statements contextualizing these values:

- (i) *Honesty* Academic communities of integrity advance the quest for truth and knowledge through intellectual and personal honesty in learning, teaching, research, and service.
- (ii) *Trust* Academic communities of integrity both foster and rely upon climates of mutual trust. Climates of trust encourage and support the free exchange of ideas, which in turn allows scholarly inquiry to reach its fullest potential.

- (iii) *Fairness* Academic communities of integrity establish clear and transparent expectations, standards and practices to support fairness in the interactions of students, faculty, and administrators.
- (iv) *Respect* Academic communities of integrity value the interactive, cooperative, participatory nature of learning. They honour, value and consider diverse opinions and ideas.
- (v) *Responsibility* Academic communities of integrity rest upon foundations of personal accountability coupled with the willingness of individuals and groups to lead by example, uphold mutually agreed-upon standards, and take action when they encounter wrongdoing.
- (vi) *Courage* To develop and sustain communities of integrity, it takes more than simply believing in the fundamental values. Translating the values from talking points into action – standing up for them in the face of pressure and adversity – requires determination, commitment and courage.

The values set out in this definition are described more fully in a document produced by the ICAI titled “The Fundamental Values of Academic Integrity, Second Edition” 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 other sources. *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. *Courage* “differs from the preceding values in that it is less a value than a quality or capacity – the capacity to act in accordance with one’s values despite fear” (“The Fundamental Values of Academic Integrity”, p. 12). Courage is displayed by students who make choices and integrous decisions that are followed with action, even in the face of peer pressure to cheat, copy another’s material, provide their own work to others to facilitate cheating, or otherwise represent themselves dishonestly. Students also display courage by acknowledging prior wrongdoing and taking proactive measures to rectify any associated negative impact. 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 *Academic Integrity Policy*, 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 types of departures from academic integrity include, but are not limited to, the following.

1.2.1 – Types of Departures

- (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 of 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 – Remedies or Sanctions for Departures from Academic Integrity

1.3.1 – Remedies or Sanctions an Instructor May Assign

The instructor may consider a range of remedies or sanctions including, but not limited to, the following:

- (i) an oral or written warning that such infractions constitute unacceptable behaviour;
- (ii) a learning experience involving a rewriting or revision of the original piece of work;
- (iii) the submission of a new piece of work;
- (iv) the completion of other work;
- (v) the deduction of partial or total loss of marks for the assignment/exam; or
- (vi) a failing grade (down to a grade of zero) in the class.

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

If the instructor believes that the finding warrants a sanction more serious than an instructor may impose, the instructor will refer the case to the Associate Dean (Studies) (see Academic Regulation 1.4.2).

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) a learning experience involving a rewriting or revision of the original piece of work;
- (iii) the submission of a revised or new piece of work;
- (iv) partial or total loss of marks for the assignment/examination;
- (v) partial or total loss of marks for the course in which the departure of academic integrity took place;
- (vi) 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;
- (vii) the rescinding of University- or Faculty-awarded scholarships, prizes and/or bursaries;
- (viii) a requirement to withdraw from the Faculty for a specified minimum period of time;
- (ix) a recommendation to withdraw from the University for a specified minimum period of time; or
- (x) 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.

1.3.5 – Appeals

A student may not appeal any of the following to the Associate Dean (Studies) for a class in which any finding of a departure from academic integrity has been assessed:

- (i) To drop the class after the last official date for dropping classes (see *Academic Calendar Dates*);
- (ii) To request Aegrotat standing in the class (see Academic Regulation **10**); or
- (iii) To request Credit (CR) standing in the class (see Academic Regulation **10**).

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 – Delegation of Investigation

Normally the instructor of the class is the individual tasked with the investigation of a possible departure from academic integrity. However, in cases where the instructor is unable to initiate and/or complete the investigation, the Department Head may delegate the responsibility to another individual within the Department.

1.4.1.2 – 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 University Ombudsman 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.

1.4.1.3 – 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 University Ombudsman.

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 1.4.1.2 above) along with the Notice of Investigation form.

1.4.1.3.1 – 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 via password-protected e-mail to the students’ Queen’s e-mail account.

Within 7 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.

1.4.1.3.2 – 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.

1.4.1.3.3 – 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.

1.4.1.3.4 – 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.

1.4.1.4 – Investigation and Meeting

1.4.1.4.1 – 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.

1.4.1.4.2 – 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.

1.4.1.4.3 – 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 1.4.1.3).

1.4.1.5 – Deciding on a Finding

1.4.1.5.1 – 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.

1.4.1.5.2 – 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.

1.4.1.6 – Assessing a Sanction after a Finding is Determined

1.4.1.6.1 – 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.)

1.4.1.6.2 – Referral to the Associate Dean (Studies)

If the finding appears to warrant a sanction more serious than 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.)

1.4.1.6.3 – 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.

1.4.1.7 – 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 University Ombudsman); and
- (vii) the fact that a copy of the finding will be kept on file in the Office of the Associate Dean (Studies).

In the case of a student who is studying at Queen's University on an official exchange program or as a visiting student on a Letter of Permission, a copy of the finding of a departure from academic integrity must be reported in writing to the student's home university Faculty or Program Office.

In the case of an Arts and Science student who is registered in a collaborative degree program offered jointly with another post-secondary institution, a copy of the finding of a departure from academic integrity must be reported in writing to the partner institution (see Academic Regulation 18.5.1).

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 Academic

Regulation 1.3.2 to a recommendation to the 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 University Ombudsman); 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 via password-protected e-mail to the students' Queen's e-mail account.

Within 7 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 7 days of receipt of the notice of investigation.

1.4.2.2.3 – Student's Right to Review Documentation

At least 7 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 1.4.1.3).

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 University Ombudsman); 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 University Ombudsman 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 University Ombudsman.

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 via password-protected e-mail to the students' Queen's e-mail account.

Within 7 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 7 days of receipt of the notice of investigation.

1.4.3.3.3 – *Student's Right to Review Documentation*

At least 7 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 Academic 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);
- (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 University Ombudsman; 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).

In the case of a student who is studying at Queen's University on an official exchange program or as a visiting student on a Letter of Permission, a copy of the finding of a departure from academic integrity must be reported in writing to the student's home university Faculty or Program Office.

In the case of an Arts and Science student who is registered in a collaborative degree program offered jointly with another post-secondary institution, a copy of the finding of a departure from academic integrity must be reported in writing to the partner institution (see Academic Regulation 18.5.1).

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.

1.5 – Failure to Abide by Academic Rules

Students must abide by all Faculty and University academic rules, including rules imposed by course instructors, or others (for example, teaching assistants, guest or substitute instructors), regarding the preparation, writing, and submission of assignments, or the writing of tests and examinations. Students must also abide by other University-wide academic regulations, such as those governing ethics reviews. For remedies or sanctions that can be assessed and procedures to be followed if a student fails to abide by academic rules, see Regulations 1.3 and 1.4.

Academic Regulation 2: Enrolment and Registration Priorities

2.1 – Career

All students admitted to the Faculty of Arts and Science will be registered in either an Undergraduate or Undergraduate Online Career. The Undergraduate Online Career is primarily intended for those students who are taking courses only online. The Undergraduate Career is primarily intended for those students studying on campus.

All courses in Arts and Science shall be offered through one of the Undergraduate or Undergraduate Online Careers. Students in an Undergraduate Online Career may only enrol in online courses, and may be given priority access to these courses. Students in an Undergraduate Career may enrol in courses offered through either Career.

Students may transfer from the Undergraduate Online Career to the Undergraduate Career as determined in Admission Regulation 5.4. At a minimum, a student must have completed 24.0 units and have a minimum cumulative GPA of 1.60 to transfer to on-campus studies.

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

2.2.1 – 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 three specialized degree programs

- (i) Bachelor of Fine Art (Honours);
- (ii) Bachelor of Music; or
- (iii) 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 enrol, 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 enrol, 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 enrolment 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.

- (v) Online courses, in which enrolment priority will be given to those students admitted to the Undergraduate Online Career and to upper-year on-campus students to provide them with flexibility and choice. It is recommended that first-year on-campus students take part in the classroom experience to help with the transition from high school, rather than enrolling in online courses.

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

2.3.1 – Application for Programs and Plans

All students, other than those in the three specialized Degree Programs noted in Academic 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/Plan selection period will normally take place during two weeks in May of each year, following release of the Winter Term final grades.

2.3.2 – 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/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. The Plans of students who are accepted from the pending list shall be changed from the Plan in which they were originally accepted to 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.

Each time a student is accepted into a new Plan, either by his/her own selection or by acceptance by a Department from a pending list, the Plan change will be recorded on the student record and displayed on the official transcript.

2.3.3 – 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.

2.3.4 – Late Requests for Plans

Students who fail to participate in the Program/Plan selection period or who are admitted after the Program/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.

2.4 – 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 the upper-level courses (those numbered 200 and above, and see Academic 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).

2.5 – Change of Programs and Plans

Students wishing to transfer to the Bachelor of Fine Art (Honours) or the Bachelor of Music program must apply through the Faculty Office, Student Services (see Admission Regulation 12.5.1). 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/Plan selection period. To request a change of Plan, the student must apply through the Faculty of Arts and Science website 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.

2.6 – Access to Classes

2.6.1 – Eligibility to Enrol 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. Only 30.0 units may be requested during the summer class selection period.

2.6.2 – Priority to Enrol 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.

2.6.2.1 – 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:

- (i) Core in their Plan;
- (ii) An option in their Plan;
- (iii) Part of their recognized concurrent-education teaching subject;
- (iv) 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:

- (i) Are furthest along in their Plan;
- (ii) Are not repeating the course.

2.6.2.2 – Number of spaces available

The University reserves the right to limit enrolment in any class that becomes oversubscribed.

2.6.2.3 – 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.

2.7 – 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 Department deems to be outstanding (generally taken to mean a cumulative GPA of at least 3.50); and
- (iii) Except in the case of approved combined Bachelor's and Master's programs, the same course(s) may not count for credit in both a graduate and undergraduate degree program in which 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 (1 September to 30 April). The normal load for students in the B.Mus., B.A.(Hons.)/B.Ed. and B.Sc.(Hons.)/B.Ed. programs 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. However, students must be registered in at least 18.0 units in the Fall-Winter period, with at least 9.0 units in each of the Fall and Winter Terms, in order to be considered to be in a full-time course load.

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, including any courses being taken elsewhere on a Letter of Permission. 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 Office of 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), including any courses being taken elsewhere on a Letter of Permission. 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).

3.2.3 – Maximum Course Loads for Internship Students

Students who are participating in the Queen's University Internship Program (QUIP) are automatically enrolled in an internship course for each term of the internship. In addition to the INTN course, these students may also enrol in one 3.0- or 6.0-unit course only during each internship term, including but not limited to an independent study course.

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 per term.

3.3.2 – Transfer to Full-Time Registration Status

Part-time students on a degree program are eligible to register in a full-time course load in accordance with Academic Regulation **3.2** if they have:

- (i) completed a minimum of 24.0 Queen's units, excluding repeated courses, and courses for which credit or aegrotat standing were assigned, 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) completed a minimum of 18.0 Queen's units, excluding repeated courses, and courses for which credit or aegrotat standing were assigned, 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.

3.3.3 – Maximum Course Load for Non-Degree Interest Students without Documentation

Students admitted to the Undergraduate Online Career, Non-Degree Interest category without documentation, may initially only enrol in one course at a time to a maximum of 6.0 units. In order to be able to enrol in further courses, such students must meet the criteria specified in Admission Regulation **11**. 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, including any courses being taken elsewhere on a Letter of Permission. 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 who take 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 Offered by the Faculty of Engineering and Applied Science

The number of Engineering and Applied Science courses that 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 Academic Degree Program section of this *Calendar*:

- (i) with the exception of the Plans listed in Academic Degree Program Regulation **6.A.**, a maximum of 6.0 units from courses offered by the Faculty of Engineering and Applied Science may be counted towards the Program and/or Plan requirements of any degree in the Faculty of Arts and Science;
- (ii) 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
- (iii) the unit weighting of such courses may not be deemed equivalent in the two Faculties.

3.7 – Registration in courses Offered by other Faculties and Schools

With the exception of students who have transferred from another Faculty or School into the Faculty of Arts and Science, and with the exception of the Plans listed in Academic Degree Program Regulation **8**, a maximum of 6.0 units from courses offered by other Faculties and Schools may be counted towards the Program and/or Plan requirements of any degree or certificate in the Faculty of Arts and Science.

Some Plans allow more than 6.0 units from courses offered by other Faculties and Schools to count toward the Plan requirements. In these cases, the non-Arts and Science courses must be limited to those specified by the Plan (see Academic Degree Program Regulation **8**).

Academic Regulation 4: Courses Spanning More Than One Term

4.1 – Nomenclature

Courses that span more than one term (multi-term 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 of Instruction section of this Calendar. When students enrol in the first half of the course using the online student centre (SOLUS), they will be automatically enrolled 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. Students will be enrolled in the same section of each component of the course in both terms.

4.2.2 – Registration

Students must be enrolled 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 Multi-Term Courses

Students who wish to drop a multi-term course must drop the classes denoted with both the A and the B suffix on or before the Faculty’s published Fall Term Academic Calendar Dates for dropping a course without academic penalty; otherwise a grade of NG (not graded) shall be assigned to the A suffix. If a student wishes to drop a multi-term 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 B suffix shall be expunged from the transcript. Students wishing to drop a multi-term course after the deadline to drop Winter Term classes without academic penalty must appeal to the Associate Dean (Studies). If the appeal is granted, a DR designation shall be placed on the transcript for the B suffix, and an NG designation shall remain on the A suffix. If the appeal is denied, the final grade earned shall remain on the transcript. A student may not appeal to remove a DR grade from the transcript. The chart below shows the impact of dropping multi-term courses on the academic transcript.

Timing of Multi-Term Course Drop

Grade on Transcript

	<i>A Suffix</i>	<i>B Suffix</i>
a) By Fall Term deadline to drop without academic penalty	Expunged	Expunged
b) After Fall Term deadline to drop without academic penalty (upon successful appeal initiated <i>before</i> the Winter Term deadline to drop without academic penalty)	DR	Expunged
c) After Fall Term deadline to drop without academic penalty, but before the Winter Term deadline to drop without academic penalty	NG	Expunged
d) After Winter Term deadline to drop without academic penalty (upon successful appeal)	NG	DR

4.4 – Credit and Grading

The first half of a multi-term 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 multi-term course shall be placed on the second half of the course. Upon successful completion of a multi-term course, the first half of the course shall be assigned a grade of NG (Not Graded) (see Academic 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).

Students who drop a multi-term course, even after successfully completing the first half of the course, must enrol in and complete both halves of the course in a subsequent academic period in order to earn credit for the course.

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, online 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 on-campus 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 enrolled in a class to be eligible to attend or otherwise participate in lectures, laboratories, tutorials, online discussions, 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, online discussions, 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, online discussions, 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 Academic Regulation **17**).

6.2 – Submission of Course Work

For purposes of evaluation, assignments and other course work must be submitted in a readable format. Many instructors will require that work be submitted electronically, and will state this at the outset of the class.

6.3 – Absence and Missed Course Work

Students who experience extenuating circumstances that cause them to miss lectures, laboratory work, assignments, tests or examinations, should submit a request for academic consideration. Once the request has been made and as soon as they are able, students must contact their instructor(s) to make alternative arrangements for extensions or other consideration. A Verification of Illness form or other supporting documentation may be required, depending on the duration of the extenuating circumstances.

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 Academic 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 and online 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 Class Syllabus

Before the end of the second week of the term in which a class starts, instructors must provide students with a class syllabus to include an outline of the basic features of the class. At a minimum, the class syllabus should include the intended student learning outcomes, a standardized definition of academic integrity 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. Any essential element(s) of the class that must be passed in order to pass the class must be included in the class syllabus. Essential elements might include laboratories, sight-singing tests or a final proctored examination.

Once distributed to students, the syllabus statement regarding the types and timing of the class elements that will contribute to the final grade may not be adjusted if the changes will disadvantage any student in the class.

7.2.2 – Testing During Class Periods

Subject to Academic 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

Requests for exceptions must be made annually and 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 of multi-term classes numbered P01 to 199 (with the exception of online 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.

7.4 – Supplemental Course Work

After completion of the elements of the class that contribute to the determination of a student's final grade in the class, as outlined in the class syllabus, a student may not submit additional work intended to raise the student's final grade.

Academic Regulation 8: Final and Mid-Year Examinations

8.1 – Supplemental Examinations

There are no supplemental examinations or re-writes in courses offered in the Faculty of Arts and Science. A student who has made a valid attempt at writing a final examination cannot rewrite the examination at a later time (see Academic Regulation 8.4.3).

8.2 – Scheduling of Final and Mid-Year Examinations

8.2.1 – Timing of Final and Mid-Year Examinations

The final or mid-year examination in any class offered in any Term or Session (including on-campus and online classes) must be written at the end of the appropriate Term or Session at the time scheduled by the Examinations Office. The final examination schedule may not be changed once the schedule is posted.

Final examinations may not last longer than 3 hours, except in the case of exchange students (see Academic Regulation **8.5**) or students who require accommodation requested through Queen's Student Accessibility Services.

8.2.2 – Scheduling Conflicts

A student discovering a conflict (two examinations at the same hour, three consecutive 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 – Location of Final and Mid-Year Examinations

The final examination in any on-campus class offered in any Term or Session must be written on the campus on which the class was taken.

8.3.1 – Students Living in the Kingston Area During the Academic Term

Students living in the Kingston area during the academic term who are enrolled in either Queen's on-campus or online classes, or both, are expected to write their mid-year and final examinations on the Kingston campus.

8.3.2 – Students Living outside the Kingston Area During the Academic Term

Students living outside the Kingston area who are enrolled in Queen's online classes will write their mid-year and final examinations either:

- (i) In-person at an approved off-campus examination centre; or
- (ii) Online using an approved online proctoring service.

8.3.3 – Students at the Bader International Study Centre

Students attending the Bader International Study Centre who are also enrolled in a Queen's online class will write their mid-year and final examinations at the Bader International Study Centre.

8.3.4 – Examination Centres for Online Classes

For students living outside the Kingston area, a list of established examination centres for online classes is available from Arts and Science Online. 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 Arts and Science Online. If a change is approved, an administrative charge will be assessed.

8.4 – Extenuating Circumstances affecting Final and Mid-Year Examinations

Students who are unable to write an examination at the scheduled time due to extenuating circumstances, beyond their control (such as serious illness, death in the family), should either make arrangements with the instructor to write a deferred examination, consider a request for an incomplete grade, or discuss other options for the course (see Academic Regulation **6.3**). Note that personal plans do not qualify as extenuating circumstances under this Regulation.

Students who are unable to write an examination in an online class at the scheduled time due to extenuating circumstances, beyond their control, must also notify Arts and Science Online. Students who are granted permission by their instructor(s) to defer the examination(s) in their online classes to a subsequent term will be subject to a non-refundable administrative fee to reschedule each examination, including additional charges as may be incurred by the University to set up the deferred examination.

Normally students are not permitted to write an examination at a time earlier than the scheduled time.

8.4.1 – Extenuating Circumstances Warranting an Early Examination

Students seeking permission to write an examination at an earlier time than the scheduled time due to very exceptional circumstances, beyond their control, must make a written request to the Office of the Associate Dean (Studies).

8.4.2 – Extenuating Circumstances Occurring Immediately Prior to an Examination

Students who experience sudden illness or other extenuating circumstances, beyond their control, immediately prior to a scheduled examination, should not write the examination. Instead, students in such circumstances should submit a request for academic consideration prior to the examination start time. Once the request has been made and as soon as they are able, students must contact their instructor(s) to make arrangements to write a deferred examination. Students should remain available to write the deferred examination at the examination venue on short notice.

8.4.3 – Extenuating Circumstances Occurring During an Examination

Students who experience sudden serious illness during the course of writing a scheduled examination that prevents them from completing the examination, must notify an Examination Proctor prior to leaving the examination hall, or prior to exiting the examination session of an online proctored examination. The Faculty Office will liaise with the instructor of the course to determine if the examination attempt is considered valid. If students leave the examination hall or exit an online examination session without notifying an Examination Proctor, the examination attempt will be considered valid and no retroactive consideration will be possible.

If, after consultation with the instructor, the examination attempt is not considered to be valid, permission for the student to re-write the final examination may be granted for documented cases at the discretion of the instructor(s) and the Associate Dean (Studies). Alternatively, other options for the student to complete the course may be provided.

8.4.4 – Extenuating Circumstances Warranting an Examination Location Change

Students living in the Kingston area during the academic term who are unable to write an examination on the main campus due to extenuating circumstances, beyond their control, may, as soon as the need is apparent, make a written request to the Office of the Associate Dean (Studies) for permission to write the examination at an approved off-campus examination centre. The request must include the reason as well as documentation confirming the student's circumstances. If permission is granted, an administrative charge will be assessed.

8.5 – Additional Examination Time for Official Exchange Students

Students studying at Queen's on an official exchange and 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.

8.6 – Access to Final Examination Question Papers

8.6.1 – 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, and with the signed approval of the Head of Department.

8.6.2 – 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 Academic Regulation 8.6.1 above, to exchange students for review by the home university.

8.7 – Formal Review of Final Examinations

Students who believe that 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 Faculty. 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 examination hall unless authorized by the instructor in writing at least 3 days before the examination. Calculators acceptable for use during quizzes, tests and examinations are intended to support the basic calculating functions required by most Arts and Science courses. For this purpose, the use of the Casio 991 series calculator is permitted and is the only approved calculator for Arts and Science students.

Students should bring only essential items to the examination. Food, drinks (except bottled water in a transparent bottle), backpacks, computers and purses are not permitted in the examination hall. Any use of communication devices (including but not limited to cell phones, smart phones, smart watches, media players, earphones, headsets) and electronic devices with memory capabilities or web-access is prohibited during an examination. All electronic devices must be turned off and placed under the student's seat. 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 as published by the Office of the University Registrar and/or the Senate. 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+	Exceptional	C	Minimally Acceptable (Honours)
A	Outstanding	C-	Minimally Acceptable (General)
A-	Excellent	D+	Unsatisfactory Pass
B+	Very Good	D	Unsatisfactory Pass
B	Good	D-	Unsatisfactory Pass
B-	Reasonably Good	F	Failure – No Course Credit
C+	Acceptable		

10.1.1 – Long Descriptors

The long descriptors provide a more detailed guide to what each letter grade signifies:

- A+ Indicates exceptional performance that exceeds the highest standards. The course content has been mastered, the ability to apply the material in new ways has been demonstrated, and an understanding of the wider context is evident, all to an exceptional degree. *Consistent performance at this level leads to placement on the Dean's Honour List with Distinction* (see Academic Regulation 12).
- A Indicates outstanding performance that meets the highest standards. The course content has been mastered, the ability to apply the material in new ways has been demonstrated, and an understanding of the wider context is evident.
- A- Indicates excellent performance that meets very high standards. Mastery of the course material and ability to apply the material in new ways have been demonstrated. *Consistent performance at this level leads to placement on the Dean's Honour List* (see Academic Regulation 12).
- B+ Indicates very good performance that meets high standards. The course content has been mastered, with a comprehensive understanding of concepts and techniques.
- B Indicates good comprehension of the course material. The expectations set for the course have been met.
- B- Indicates reasonably good comprehension of the course material. Most expectations set for the course have been met.
- C+ Indicates an acceptable comprehension of the course material, meeting and in some cases exceeding basic standards.

- C Indicates a generally acceptable comprehension of the course material, meeting basic standards. *Consistent performance at this level is acceptable for an Honours Degree* (see Academic Regulation 16).
- C- Indicates a minimally acceptable comprehension of the course material while falling short of basic standards in some areas. *Consistent performance at this level is acceptable for a General Degree, but not for an Honours degree* (see Academic Regulation 16).
- D+ Comprehension of the course material was unsatisfactory, but sufficient for credit to be granted. *Consistent performance at this level will lead to placement on Academic Probation and, potentially, further sanctions* (see Academic Regulation 13).
- D Comprehension of the course material was unsatisfactory, but sufficient for credit to be granted. *Consistent performance at this level will lead to placement on Academic Probation and, potentially, further sanctions* (see Academic Regulation 13).
- D- Comprehension of the course material was unsatisfactory; barely sufficient for credit to be granted. *Consistent performance at this level will lead to an automatic requirement to withdraw* (see Academic Regulation 13).
- F Indicates that the minimum standards have not been met. Credit has not been granted. *Consistent performance at this level will lead to an automatic requirement to withdraw* (see Academic Regulation 13).

10.2 – Pass/Fail Grades

A grade of Pass (P) may be assigned when a student meets or exceeds the minimum standards in a course that has been designated for pass/fail grading either by an academic unit in the Faculty of Arts and Science, or by the student as a Personal Interest Credit. A grade of Fail (F) will be given if the student does not meet the minimum standards in a course that has been designated for pass/fail grading. A course that has been assigned a grade of Pass will not be included in the student's GPA but may be counted for credit towards a degree program. A grade of F in a course that has been designated for pass/fail grading will be included (with the corresponding grade point of 0.0) in any GPA calculation. Other non-evaluative grades (IN, GD, AG) may be entered in accordance with the academic regulations.

10.2.1 – Pass/Fail Grades in Courses Designated by Academic Units in the Faculty

While most courses in the Faculty will be graded using the letter-based grading system, some courses, particularly those of a technical or applied nature offered as part of a professional degree program or Plan, may be appropriately designated for pass/fail grading. An academic unit that wishes to designate a course for pass/fail grading must obtain approval for such a designation through the curriculum review process as outlined in the By-Laws of the Faculty Board, and all such designations are subject to the final approval of Faculty Board. Any course designated for pass/fail grading must clearly indicate this grading method in the course syllabus. All students enrolled in a course designated for pass/fail grading in this manner will be graded as such; letter grades will not be available.

10.2.2 – Pass/Fail Grades in Courses Designated by the Student (Personal Interest Credit)

A student may choose to designate a degree-credit course offered by the Faculty of Arts and Science for pass/fail grading that would normally have letter grading. The intention of such a designation is to encourage a student to explore subject matter in a field outside the program of study, to promote interdisciplinarity, and to minimize the risk to the student's cumulative GPA.

A student may designate a course offered by the Faculty of Arts and Science in which they have enrolled for pass/fail grading by submitting the appropriate application form to the Office of the Associate Dean (Studies) before the deadline to drop the course without academic penalty in each term.

The following restrictions will apply to the designation of any pass/fail grading by the student:

- (i) The student must be registered in a degree program in the Faculty of Arts and Science;
- (ii) The student must have passed a minimum of 24.0 units taken in the Faculty of Arts and Science at Queen's before a pass/fail course can be designated;
- (iii) The student must be in good academic standing at the time that a course is designated for pass/fail grading;
- (iv) The student may designate a maximum of 6.0 units for pass/fail grading throughout their Undergraduate and/or Undergraduate Online Careers (excluding any courses designated pass/fail by an academic unit, see Academic Regulation 10.2.1);
- (v) The student may designate a maximum of one course per term for pass/fail grading;
- (vi) Once a course has been designated for pass/fail grading, the student may change this designation only up to the deadline to drop the course without academic penalty in each term. In the case of multi-term courses, the student may change the designation up to the deadline for the B half of

- the course. After this deadline, the student may not change this designation for any reason, regardless of academic performance;
- (vii) The student may not designate a course for pass/fail grading if there is a finding of a departure from academic integrity in the course;
 - (viii) Only courses that are taken to fulfill the elective or total unit requirement of a degree program may be designated for pass/fail grading; no courses that may count as core, option or supporting courses to fulfill the requirements of any Plan in which the student is registered at the time of the pass/fail designation may be designated for pass/fail grading. If a student successfully completes a course designated for pass/fail grading and wishes to apply it toward the core or supporting course requirements of a Plan in which they subsequently register, they must obtain the agreement of the Department to substitute another appropriate course in its place. If a course designated for pass/fail grading is to be used to fill the option course requirements of a Plan in which the student subsequently registers, the student must choose a different option course; and
 - (ix) Courses offered by other Faculties and Schools may not be designated for pass/fail grading.

No variation from the required course components and grading scheme as published in the course syllabus will be made for a student who designates a course for pass/fail grading. If the instructor assigns a grade of D- or greater as determined by the grading scheme, the student will be deemed to have met the minimum standard in the course and will be given a grade of P.

10.2.3 – Appeals

Academic Regulation 10.2.2 may not be appealed.

10.3 – Non-Evaluative Grades

10.3.1 – 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 (GPA), can be used as credit earned towards a degree program, and can be used to qualify for entry to a degree Plan.

A student seeking aegrotat standing in a class must submit a formal appeal to the Office of the Associate Dean (Studies) (see Appeal of Academic Decisions, Section 3). As part of the appeal, the instructor must indicate whether the student has demonstrated an understanding of the class material and must provide an estimation of the student's grade in the class based on the work completed. 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.

10.3.2 – Credit Standing (CR)

Credit standing (CR) in a course is reserved for situations in which a student, who has completed all of the work of the course including the final examination, and achieved a passing grade in the course, 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 GPA but can be used as credit earned towards a degree program. 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 minimum grade. 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 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, and the instructor will be notified of this change in grade.

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

10.3.3 – 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 GPA, 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.

10.3.4 – 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. The student must have participated actively in the class and only one or two elements of the class may be outstanding. Students with extenuating circumstances who have been unable to complete the majority of the work in a class should consider an appeal to drop a class after the deadline rather than requesting an incomplete grade in the class.

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 Grade or Deferred Examination" form available from the Arts and Science website. The "Permission for an Incomplete Grade or Deferred Examination" 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 GPA, 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 GPA.

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 GPA 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 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).

10.3.5 – 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 GPA but may be counted for credit towards a degree program.

10.3.6 – 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 GPA and may not be counted for credit towards a degree program (see Academic Regulation 5).

10.3.7 – Dropped (DR)

Any course dropped by a student before the date specified in the Faculty's published academic calendar dates for dropping a course without academic penalty shall be expunged from the transcript. Students wishing to drop a course after the published date must appeal to the Associate Dean (Studies). If the appeal is granted, a DR designation shall be placed on the transcript. If the appeal is denied, the final grade earned shall remain on the transcript. A student may not appeal to remove a DR grade from the transcript.

Dropped designations will not be included in the student's GPA and will not count for credit towards a degree program.

See also Academic Regulation 4 for details on transcript designations when dropping multi-term courses.

10.3.8 – Not Graded (NG)

The not graded (NG) designation indicates the completion of the first half of a multi-term 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 GPA and will not be counted 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.

10.4 – 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.

10.5 – Grade Point Average (GPA)

10.5.1 – Letter Grade/Grade Point Table

All letter grades shall have grade points associated with them, according to the following table:

Letter Grade	Grade Points
A+	4.3
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
D-	0.7
F	0.0

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:

10.5.2 – 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 Career (Undergraduate or Undergraduate Online, see Academic Regulation **2.1**). Thus, students who change Career will have two cumulative GPA's on their academic record. The cumulative GPA used for all assessment purposes shall be the one associated with the student's current Career of registration.

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 while registered in an Undergraduate Career in other Faculties/Schools and/or taken towards other degree programs shall continue to be included in the Undergraduate Career cumulative GPA used for evaluative purposes in the Faculty of Arts and Science. Unless otherwise indicated in the academic regulations, when reference is made to a GPA, a cumulative GPA is indicated.

10.5.3 – Plan GPA

The Plan GPA shall be determined using all core, option and supporting courses completed to fulfill the Plan requirements for the degree and for which grade points are assigned, regardless of the Career under which the courses are taken.

10.5.4 – Term GPA

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

10.5.5 – 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.

10.5.6 – Retaking Courses

If an exact course is repeated, the highest 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, the TR shall be considered equivalent to a grade of C. If a TR takes precedence it will not be used in the GPA calculation.

A course may normally be retaken for a total of three completed attempts.

10.5.7 – 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. For conversion purposes, numeric grades shall be associated with grade points according to the following table:

Numeric Equivalent (prior to 1 May 2011)	Grade Points
90 – 100%	4.3
85 – 89%	4.0
80 – 84%	3.7
77 – 79%	3.3
73 – 76%	3.0
70 – 72%	2.7
67 – 69%	2.3
63 – 66%	2.0
60 – 62%	1.7
57 – 59%	1.3
53 – 56%	1.0
50 – 52%	0.7
0 – 49%	0.0

10.6 – 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 term 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 Graded Work in a Course

Students have the right to review all graded work in a course, including the final examination. All graded material that is not returned to the student must, according to Senate policy, be retained for a period of 12 months.

Information about appeals of instructors' decisions on grading can be found in Appeal of Academic Decisions, Section 3.

Academic Regulation 12: Dean's Honour Lists

12.1 – Dean's Honour List

Students in a degree program who have obtained an academic year GPA of at least 3.50 at the end of the Summer Term, and who have not otherwise been placed on the Dean's Honour List with Distinction, will be placed on the Dean's Honour List.

To be eligible for the Dean's Honour List, students must also meet the following criteria:

- (i) They must be registered in a degree program in Arts and Science.
- (ii) They must have completed a minimum of 18.0 Queen's units in the relevant Fall-Winter-Summer academic year, excluding courses with the non-evaluative grades AU, CR, DR, NG and P. Only courses that contribute towards the Arts and Science degree program will be included in the academic year GPA.
- (iii) There may be no failures and no repeated course enrolments in the relevant Fall-Winter-Summer academic year.
- (iv) 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.

This honour will be noted on the student's transcript.

12.2 – Dean's Honour List with Distinction

For the purposes of determining eligibility for the Dean's Honour List with Distinction, student academic performance will be compared to that of their peers within the following program groups:

- (i) *Arts*: all students registered in the B.A., B.A.(Honours), B.F.A., B.F.A.(Honours), B.Mus., B.P.H.E. and B.P.H.E.(Honours) degree programs.
- (ii) *Science*: all students registered in the B.Sc., B.Sc.(Honours), B.Cmp. and B.Cmp.(Honours) degree programs.

Those students who have achieved an academic year GPA in the top 3 per cent of all students within their program group are eligible for consideration for the Dean's Honour List with Distinction. They must also meet those eligibility criteria as outlined for the Dean's Honour List in Academic Regulation 12.1.

This honour will be noted on the student's transcript.

12.3 – Students on International Exchange Programs

Those students who have participated in an approved exchange program at an international partner university, and who have consequently attempted fewer than 18.0 units at Queen's University during the relevant Fall-Winter-Summer academic year, may be considered for placement on the Dean's Honour List, but will not be eligible for the Dean's Honour List with Distinction.

To be eligible for consideration, the student must:

- (i) Have participated in an approved international exchange program;
- (ii) Have completed a minimum of 15.0 units, and fewer than 18.0 units, at Queen's University in the relevant Fall-Winter-Summer academic year (those students having completed 18.0 or more units at Queen's will be automatically considered for the Dean's Honour List under Regulation 12.1)

- above). Only courses that contribute towards the Arts and Science degree program will be included in the academic year GPA;
- (iii) Have achieved a minimum GPA of 3.50 on these units;
 - (iv) Have no failures and no repeated course registrations in the relevant Fall-Winter-Summer academic year; and
 - (v) Have 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.

The student must provide a transcript from the host university. For the student to be placed on the Dean's Honour List, the transcript from the host university must show:

- (i) That the student was continuously registered in a full academic load;
- (ii) That the student achieved an academic standing consistent with a Queen's GPA of 3.50; and
- (iii) That there were no failed courses, repeated courses, or outstanding grades during the relevant term(s) the student spent at the host university.

The Queen's transcript must further show that all courses attempted at the host university were subsequently transferred for credit towards a degree program at Queen's University.

This honour will be noted on the student's transcript.

12.4 – 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 registered in a degree or certificate program who have attempted a minimum of 18.0 units since the time of admission to the Faculty of Arts and Science, shall be assessed. Assessment of academic standing is based solely on the cumulative GPA in the career in which the student is registered at the time of assessment.

All students who are assessed will be assigned one of the following academic standings, unless they have not attempted a minimum of 18.0 units since the time of their previous assessment, in which case they may be assigned a temporary standing.

13.2 – In Good Academic Standing

Students are described as being in good academic standing unless otherwise notified. Normally this means a cumulative GPA of at least 1.60.

13.3 – Academic Probation

13.3.1 – Criteria for Placement on Academic Probation

A student shall be placed on academic probation if they:

- (i) have a cumulative GPA of less than 1.60 at the time of assessment; or
- (ii) return to studies after having previously been required to withdraw, even if that requirement to withdraw was waived on appeal; or
- (iii) are admitted to the Faculty of Arts and Science on full-time or part-time registration status on probation (see Admission Regulation 11).

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, 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.

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 they:

- (i) have a cumulative GPA of less than 0.70 at the time of assessment; or
- (ii) are on academic probation at the time of assessment and have 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.

Students who are on academic probation and have a cumulative GPA of less than 1.60, and who have not attempted 18.0 units since the time of their previous assessment, will not be Required to Withdraw for One Year, but instead will be allowed to continue their studies on probation, until they have attempted at least 18.0 units since being placed on probation.

The academic standing “Continuing on Probation” 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, or enrol in any Queen’s courses, 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 they:

- (i) have a cumulative GPA of less than 0.70 at the time of assessment and have previously been required to withdraw for one year, even if that previous requirement to withdraw was waived on appeal; or
- (ii) are on academic probation at the time of assessment, have a cumulative GPA of less than 1.60 and have previously been required to withdraw, even if that previous requirement to withdraw was waived on appeal. 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.

Students who are on academic probation, have a cumulative GPA of less than 1.60 and have previously been required to withdraw, and who have not attempted 18.0 units since the time of their previous assessment, will not be Required to Withdraw for a Minimum of Three Years, but instead will be allowed to continue their studies on probation, until they have attempted at least 18.0 units since being required to withdraw.

The academic standing “Continuing on Probation” 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, or enrol in any Queen’s courses, for a minimum of 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 be able to return to their studies after the minimum withdrawal period has lapsed (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, determine 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 7 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 require the student 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 they have a cumulative GPA of greater than or equal to 1.60 but less than 1.90 at the time of assessment and are 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 – Not Eligible to Proceed to an Honours Degree

13.8.1 – Criteria for being deemed Not Eligible to Proceed to an Honours Degree

A student shall be deemed to be not eligible to proceed to an Honours Degree if they have attempted 132.0 or more units at the time of assessment and have a cumulative GPA of less than 1.90.

The academic standing "Not Eligible to Proceed to an Honours Degree" shall be placed on the student's transcript.

13.8.2 – Academic Restrictions Resulting from Not Eligible to Proceed to an Honours Degree

A student who has been deemed not eligible to proceed to an Honours Degree may not enrol 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 enrol in such classes must be sought from the Associate Dean (Studies).

13.8.3 – Appeal of Decisions Related to the Not Eligible to Proceed to an Honours Degree Standing

A student may not appeal a "Not Eligible 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 Regulations 3.2.2 and 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.

The Letter of Permission is issued for a specified post-secondary institution and for a specified term. The student must begin the class(es) in the term specified in the Letter of Permission. Failure to do so will require the student to apply for either a new or a retroactive Letter of Permission in order to transfer the credit(s) toward the Queen's degree.

To obtain a Letter of Permission, a student must be in good academic standing (see Academic Regulation 13), have a minimum cumulative GPA of 1.60, have completed a minimum of 6.0 units on a degree program in the Faculty of Arts and Science and must not have more than 3.0 units of incomplete grades in a previous term (grade of IN). A student who is completing the final course(s) of an honours degree must have a minimum Plan GPA and a minimum cumulative GPA of 1.90.

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 on any courses taken (including mid-year grades on multi-term courses) is at least 1.60. The conditional Letter of Permission will be valid if the student completes a minimum of 6.0 units with a minimum cumulative GPA of 1.60; otherwise 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 may request a Letter of Permission to transfer up to 6.0 units from another post-secondary institution. A level 3 or 4 student who wishes to spend all or part of the third or fourth year of an Honours program at another post-secondary institution must appeal to the Associate Dean (Studies). The student must be in good academic standing, have achieved a cumulative GPA of at least 1.60 (subject to the restriction in Academic Regulation **14.1**) and must obtain the written permission of the Department(s) administering his or her Plan(s). If approval is granted, the student must then 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 (minimum grade of 63 on percentage-based scale) 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 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.

14.8 – Departures from Academic Integrity in Courses Taken Elsewhere

If notification is received by the Faculty of Arts and Science of a finding of a departure from academic integrity in a course taken by an Arts and Science student while studying at another post-secondary institution on a Letter of Permission, the finding will be kept in a special file in the Office of the Associate Dean (Studies) that will only be accessed if there is a subsequent finding.

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 Faculty of Arts and Science in order to withdraw from Queen's.

15.2 – Return to Studies

15.2.1 – Exchanges and Letters of Permission

Students who were away during the preceding Fall or Winter Term on an exchange or on a letter of permission (see Academic Regulation **14**) may resume their registration without any further special action.

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 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.

15.2.3 – Students in Good Academic Standing

15.2.3.1 – Not Attending another Institution

Those students who have registered in the Faculty of Arts and Science, who have attempted at least one course and are in good academic standing, who did not attend any other post-secondary institution while away from the University, and who wish to return, 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. This should be done as early as possible and no later than 1 April of the year in which they wish to return in order to have access to the summer period for enrolling in Fall and Winter classes.

15.2.3.2 – Attending another Institution without Leave

Those students in good academic standing who, *without a letter of permission*:

- (i) were registered in a two- or three-year diploma program at a post-secondary institution, but did not graduate; or
- (ii) completed a graduate program at another post-secondary institution,

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 enrol in classes.

Those students in good academic standing who, *without a letter of permission*, completed 18.0 or fewer units (including failures) as a visiting student at another post-secondary institution, and who wish to have transcripts evaluated for the purpose of receiving transfer credit, must apply for a *retroactive* letter of permission. Students making an application for a retroactive letter of permission should be aware that there is no guarantee that their credits will be transferred toward their degree program.

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 two- or three-year diploma program at a post-secondary institution; or
- (iii) *without a letter of permission*, completed more than 18.0 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 **12**). Such students must meet the minimum admission requirements for external students to be accepted, and are not guaranteed access to all Plans, including that in which they were registered before leaving Queen's.

15.3 – Appeals

No part of Academic Regulation **15** may be appealed, as this regulation deals with matters of admission to the Faculty. Admission matters are explicitly excluded from the appeals process in accordance with the Senate *Policy on Student Appeals, Rights and Discipline* (SARD).

Academic Regulation 16: Requirements for Graduation

16.1 – Honours Degrees

16.1.1 – GPA Requirements

The awarding of the B.A.(Hons.), B.Cmp.(Hons.), B.F.A.(Hons.), B.Mus., B.P.H.E.(Hons.) and B.Sc.(Hons.) degrees is conditional on receiving a minimum cumulative GPA of 1.90 in the Undergraduate Career 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.

16.1.2 – Total Unit Requirement

For students admitted to the Faculty of Arts and Science prior to the Fall Term 2017, the awarding of the B.A. (Hons.) degree is conditional on the successful completion of a minimum of 114.0 units.

Effective for students admitted to the Faculty of Arts and Science in the Fall Term 2017 and later, the awarding of the B.A.(Hons.) degree is conditional on the successful completion of a minimum of 120.0 units.

The awarding of the B.Cmp.(Hons.), B.F.A.(Hons.), B.P.H.E.(Hons.) and B.Sc.(Hons.) degrees is conditional on the successful completion of a minimum of 120.0 units.

The awarding of the B.Mus. degree is conditional on the successful completion of a minimum of 126.0 units.

16.1.3 – Applying Transfer Credits

Effective for students admitted to the Faculty of Arts and Science in the Summer Term 2016 and later, no more than 57.0 units in the program (60.0 for the B.Mus. 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 excluding supporting courses;
- (iii) For each Medial Plan, 18.0 units;
- (iv) For Minor Plans, as per the corresponding General Plan requirements noted below in Academic Regulation 16.2.3.

16.2 – General Degrees

16.2.1 – GPA Requirements

The awarding of the B.A., B.Cmp., B.F.A., B.M.T., B.P.H.E. and B.Sc. degrees is conditional on receiving a minimum cumulative GPA of 1.60 in the career in which the student is registered at the time of graduation, and a minimum GPA of 1.60 on the courses used towards the general Plan requirements of the degree.

16.2.2 – Total Unit Requirement

The awarding of the B.A., B.Cmp., B.F.A., B.M.T., B.P.H.E. and B.Sc. degrees is conditional on the successful completion of a minimum of 90.0 units.

16.2.3 – 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 excluding supporting courses;
- (ii) For the General Computing or Science (B.Cmp. or B.Sc.) Plans, 18.0 units excluding supporting courses;
- (iii) For the General Fine Art (B.F.A.) Plan, 24.0 units excluding supporting courses;
- (iv) For the General Physical and Health Education (B.P.H.E.) Plan, 24.0 units excluding supporting courses.

16.3 – Degrees with Distinction

16.3.1 – Requirements for Degree with Distinction

Graduation with Distinction recognizes the highest level of academic performance at Queen’s. A Degree with Distinction will be awarded to students who have achieved the following:

- (i) a minimum cumulative GPA of 3.50 in the Undergraduate and Undergraduate Online Careers; *and*
- (ii) a minimum GPA of 3.50 on the courses used towards all the Plan requirements of each of the Plans that comprise the degree; *and*
- (iii) no failed grades, no outstanding IN or GD grades, and no repeated classes during their Undergraduate and Undergraduate Online Careers.

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.

16.4 – Certificates and Diplomas

16.4.1 – GPA Requirements

The awarding of a certificate or diploma is conditional on receiving a minimum cumulative GPA of 1.60 in the career in which the student is registered at the time of graduation, and a minimum GPA of 1.60 on the courses used towards the requirements of the certificate or diploma.

16.4.2 – Total Unit Requirement

The awarding of a certificate or diploma is conditional on the successful completion of the minimum number of units required for the certificate or diploma. A maximum of 50 percent of the units required may be counted toward the requirements of both the certificate or diploma and another degree program, certificate or diploma.

16.4.3 – Applying Transfer Credits

No more than 50 percent of the units in the certificate or diploma may be transfer credits (grade of TR) from outside Queen's University.

16.4.4 – Timing of Completion of Certificate or Diploma

A certificate or diploma may be awarded together with, after receiving, or after qualifying for a degree, or on its own.

16.5 – Course Requirements

All courses required to fulfill the program and Plan requirements for the degree, certificate or diploma must be completed, including appropriate core, option, supporting and elective requirements. The completed courses may not be counted toward more than one requirement within a program or Plan. Plan overlap rules as detailed in the Academic Degree Programs section of this Calendar must be followed. In exceptional cases, departments may permit the substitution of other core, option and/or supporting course requirements in the Plan. In no circumstances may Plan overlap restrictions be waived.

16.6 – Appeal of Decisions on Requirements for Graduation

As decisions related to this regulation are solely dependent on particular levels of academic performance, no part of Academic Regulation **16** can be appealed.

16.7 – Application to Graduate

A degree, certificate or diploma candidate must apply to graduate during the final year of the program, or at least by 30 April for Spring convocation and by 15 October for Fall 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.

Academic Regulation 18: Jurisdiction

18.1 – Arts and Science Students Registered in Courses Offered by Other Faculties/Schools

Arts and Science students registered in courses offered through another Faculty or School are governed by the academic regulations of the Faculty of Arts and Science, with the exception of Academic Regulation 1 (Academic Integrity). In accordance with the Senate *Policy on Academic Integrity Procedures*, the initial investigation of a departure from academic integrity and any referral of an academic integrity case will take place under the regulations of the Faculty or School offering the course. Appeals will continue to take place in accordance with the regulations of the Faculty of Arts and Science. In the case of a finding of a departure from academic integrity, the Faculty or School offering the course will disclose the departure to and consult with the Associate Dean (Studies) of the Faculty of Arts and Science before imposing any sanction. Upon such disclosure, the severity of any such departure shall be assessed by the Associate Dean (Studies) as being equivalent to Level I or Level II and a record of the departure shall be retained by the Faculty of Arts and Science in accordance with the process outlined in Academic Regulation 1. Consistent with Academic Regulation 1, this record may be taken into consideration in determining a sanction were a further finding of a departure from academic integrity to occur.

18.2 – Students from Other Faculties/Schools Registered in Arts and Science Courses

Students from other Faculties or Schools registered in a course offered through the Faculty of Arts and Science are governed by the academic regulations of their home Faculty, with the exception of any academic regulations of that Faculty or School pertaining to academic integrity. In accordance with the Senate *Policy on Academic Integrity Procedures*, the initial investigation of the departure and any referral of the case to the Associate Dean (Studies) will take place under Academic Regulation 1 (Academic Integrity) of the Faculty of Arts and Science. In the case of a finding of a departure from academic integrity, the Associate Dean (Studies) will disclose such finding to the appropriate authority in the student's home Faculty or School and will consult with that authority before imposing any sanction.

18.3 – Students Registered in Multiple Programs within Queen's University

With respect to matters pertaining to an individual course, students registered in multiple programs (including certificate and diploma, concurrent education and Dual Degree programs) will be governed by the academic regulations of the Faculty under which they register for the course.

18.4 – Bader International Study Centre

Arts and Science students resident at the Bader International Study Centre continue to be governed by the academic regulations of the Faculty of Arts and Science, with the following modifications. With the exception of Academic Regulation 1 (Academic Integrity), in all regulations below that refer to decisions made by the Executive Director, the Executive Director may choose to delegate responsibility for those decisions to the Academic Director and/or the Deputy Academic Director.

18.4.1 – Academic Regulation 1 (Academic Integrity)

The Executive Director of the Bader International Study Centre will carry out the duties of the Associate Dean (Studies), as outlined in Academic Regulation 1. The Executive Director may choose to consult with or to transfer these duties to the Associate Dean (Studies) at his/her discretion. The Executive Director must transfer these duties if the departure from academic integrity is such that it might warrant one of the following sanctions as outlined in Academic Regulation 1:

- (i) the rescinding of University- or Faculty-awarded scholarships, prizes and/or bursaries;
- (ii) a requirement to withdraw from the Faculty for a specified minimum period of time;
- (iii) a recommendation to withdraw from the University for a specified minimum period of time; or
- (iv) a recommendation for the revocation or rescinding of a degree.

Once a finding and sanction are made, a record of the finding shall be forwarded to the Associate Dean (Studies) and retained in the student file as a Level I or Level II departure, as appropriate.

18.4.2 – Academic Regulation 3 (Number of Units in a Term and Academic Year)

Students registered at the Bader International Study Centre take a normal full-time load of 15.0 units in each of the Fall and Winter Terms, and 6.0 to 9.0 units in the Summer Term. Only with the approval of the Executive Director

and in rare and exceptional circumstances will students be permitted to take more than the normal full-time course load per term.

18.4.3 – Academic Regulation 7 (Assessment of Performance)

In addition to those restrictions on assessment outlined in Academic Regulation 7, field studies will also not be conducted in the last week of classes and any designated study/examination period of the Fall and Winter Terms, or in the last four days of classes and any designated study/examination period of the Summer Term.

Exceptions must be approved by the Executive Director. (As per Regulation 7, these might include individual oral examinations in language acquisition courses and laboratory examinations requiring the hands-on use of apparatus or materials.)

In lieu of mid-year grades, Level 1 students will be provided with a summary of their academic progress in early January of Winter Term, and shall be required to discuss their progress with an academic advisor.

18.4.4 – Academic Regulation 8 (Final Examinations and General Examinations)

Exam scheduling conflicts found by the student shall be brought to the attention of the Executive Director.

18.4.5 – Academic Regulation 9 (Examination Conduct)

Examination hall irregularities shall be brought to the attention of the Executive Director.

18.4.6 – Academic Regulation 10 (System of Grading and Transcript Notations)

Appeals for Aegrotat, Credit standing (CR), to add or drop a course after the academic deadline, or to change a grade after the stated deadlines shall be to the Executive Director. If an appeal is made to modify grades on multiple courses or if a successful appeal would change a student's academic progression standing, the Director shall first consult with the Associate Dean (Studies).

Upon submitting a grade of incomplete (IN) the instructor shall provide a copy of the "Permission for an Incomplete Mark" form to the Executive Director. The Executive Director will hear any appeals for an extension of an incomplete grade beyond either the date of the first agreement or the end of the subsequent term.

Upon submitting a grade deferred (GD), the instructor will inform both the Executive Director and the Associate Dean (Studies) of the circumstances under which this grade is being submitted and the timeline for submission of a final grade.

18.4.7 – Academic Regulation 11 (Review of Grades and Examinations)

Appeals to review the grade assigned in a course shall be to the Executive Director.

18.4.8 – Academic Regulation 15 (Voluntary Withdrawal and Return to Studies)

If a student chooses to leave the Bader International Study Centre, they must normally do so before the academic deadline to drop courses. If, following withdrawal, a student chooses to continue their studies on the main campus, they may register in courses in which there is space available and for which they meet the academic prerequisites, provided the deadline for adding courses has not passed. If the deadline has passed, they must appeal to the Associate Dean (Studies) for permission to add the courses late, citing extenuating circumstances. If they wish to drop courses without academic penalty after the deadline they must appeal to the Associate Dean (Studies) for permission to drop the courses late, citing extenuating circumstances. All appeals will be reviewed according to the usual guidelines outlined in Appeal of Academic Decisions, Section 3.

18.4.9 – Academic Regulation 17 (Misconduct in an Academic or Non-Academic Setting)

Academic Regulation 17 is superseded by the regulations and policies of the Bader International Study Centre regarding non-academic misconduct in both an academic and non-academic setting.

If a student is required to leave the Bader International Study Centre involuntarily as a result of misconduct in an academic or non-academic setting, the Associate Dean (Studies), in consultation with the Dean of Student Affairs, will determine whether the student may be accommodated through on-campus or online studies. In determining whether such an accommodation is available, the Associate Dean (Studies) will consider the following factors:

- (i) The nature of the misconduct;
- (ii) The same course or one which is essentially equivalent is being taught on the Kingston campus or online, during the term in question;
- (iii) The course has sufficient space available;
- (iv) The instructor of both the original Bader International Study Centre course and the Kingston campus or online course are amenable to this arrangement and are prepared to jointly assess the student's grade, as appropriate; and
- (v) It is in the best academic interests of the student to continue his/her studies at that time.

If continuing on the Kingston campus or in online studies is not possible, then the Faculty will coordinate with the Bader International Study Centre to make reasonable accommodation for the student to sit any remaining tests or examinations and to receive any written course materials.

18.5 – Collaborative Degree Programs Offered Jointly with Other Postsecondary Institutions

Arts and Science students registered in a collaborative degree program offered jointly with another postsecondary institution (the "partner institution") shall be governed by the academic regulations and policies of the Faculty of Arts and Science and of the Senate with respect to all matters pertaining to Queen's University. They will similarly be bound by the regulations and policies of the partner institution with respect to all matters pertaining to that institution. The following modifications of the academic regulations apply:

18.5.1 – Academic Regulation 1 (Academic Integrity)

Upon a finding of a departure of academic integrity, and once all avenues of appeal are exhausted, the Associate Dean (Studies) shall disclose to the partner institution the nature and details of the case. The partner institution may use this information as its academic regulations direct.

The nature and details of any departure from academic integrity that take place at the partner institution shall likewise be disclosed to the Associate Dean (Studies). Upon disclosure, the severity of any such departure shall be assessed by the Associate Dean (Studies) as being equivalent to Level I or Level II and a record of the departure will be retained in accordance with the regulations. Any finding of a departure from academic integrity at the partner institution will not incur any further sanction once it is reported to the Faculty of Arts and Science. However, it may be taken into consideration as a factor in determining the severity of a sanction if a further finding of a departure from academic integrity were to occur at Queen's.

18.5.2 – Academic Regulation 2 (Enrolment and Registration Priorities)

A student shall normally be registered in a specific Program and Plan as a result of being admitted to a collaborative degree program. Should the student withdraw from the collaborative program, either voluntarily or through failure to meet the progression requirements of the partner institution, the student will be allowed to continue in the Program and Plan in which they are registered, provided that they have not been required to withdraw under Academic Regulation 13. If their Program/Plan is unavailable outside of the collaborative degree program in which they were originally registered, they will be offered a place in the most closely corresponding Program and Plan. If the student wishes to transfer to an otherwise different Program and Plan, they must follow the procedures and meet the academic requirements otherwise outlined in Academic Regulation 2.

18.5.3 – Academic Regulation 10 (System of Grading and Transcript Notations)

Courses attempted at the partner institution will not appear directly on a Queen's transcript unless transfer credit is granted. Similarly, grades obtained in courses attempted at the partner institution will not be considered when evaluating a student's cumulative, term, or academic year GPA.

18.5.4 – Academic Regulation 12 (Dean's Honour Lists)

Courses attempted at the partner institution will not be considered when evaluating a student's eligibility for the Dean's Honour List or Dean's Honour List with Distinction.

18.5.5 – Academic Regulation 13 (Academic Standing)

If, at the time of assessment, a student is found to be in anything other than good academic standing at Queen's, the partner institution shall be informed of the student's academic standing status. If the student is registered in an honours degree Plan as part of the collaborative degree program, the partner institution will also be informed if an academic warning has been transmitted to the student. Likewise, if the student is assessed to be in anything other than good academic standing by the partner institution, the Faculty of Arts and Science shall be informed of this fact.

Following assessment in the Faculty of Arts and Science:

- (i) if the student is in good academic standing, is given an academic warning, or is placed on probation, they shall be permitted to continue in the collaborative degree program, provided that the partner institution supports their continued registration.
- (ii) If the student is required to withdraw for one or three years, they shall also be required to withdraw from the collaborative degree program. Upon return to studies, they shall no longer be registered in a collaborative degree program and they must register in another program and Plan as outlined in Academic Regulations **2** and **18.5.2**.
- (iii) If the student is deemed Not Eligible to Proceed in Honours and the Plan of registration in the collaborative degree program is an honours Plan, they shall be required to withdraw from the collaborative degree program. They shall be permitted to continue in a degree program in the Faculty of Arts and Science under the provisions outlined in Academic Regulation **13.8**.

If, for any reason, the partner institution places the student on an academic standing status similar to that of academic probation or an academic warning in the Faculty of Arts and Science, while allowing them to remain in the collaborative degree program, the student will also be permitted to continue in the collaborative degree program by the Faculty of Arts and Science.

If, for any reason, the student is required by the partner institution to withdraw from the collaborative degree program, the student's academic record in the Faculty of Arts and Science will be assessed immediately upon the Faculty being informed of this decision by the partner institution. The following shall then occur:

- (i) If the cumulative GPA is less than 0.7, the student will be required to withdraw, for one year if this is the first requirement to withdraw, or for three years if they have been previously required to withdraw.
- (ii) If the cumulative GPA is greater than or equal to 0.7 but less than 1.6, and the student has been previously required to withdraw, they shall be required to withdraw for three years.
- (iii) If the cumulative GPA is greater than or equal to 0.7 but less than 1.6, and the student is currently on academic probation, the student will be required to withdraw for one year.
- (iv) If the cumulative GPA is greater than or equal to 0.7 but less than 1.6, and the student is in otherwise good academic standing, the student shall be placed on academic probation, but may choose to continue within the Faculty of Arts and Science in their Program and Plan as outlined in Academic Regulations **2** and **18.5.2**. The academic probation status shall come into effect immediately.
- (v) If the cumulative GPA is greater than or equal to 1.6, the student will remain in good academic standing. They may choose to continue within the Faculty of Arts and Science in their Program and Plan as outlined in Academic Regulations **2** and **18.5.2**.
- (vi) If the cumulative GPA is less than 1.9, and the student has made 132.0 or more unit attempts, the student shall be deemed to be Not Eligible to Proceed in Honours. In this case, the provisions outlined in Academic Regulation **13.8** shall come into effect immediately.

In all cases, a requirement to withdraw will come into effect at the end of the Winter Term. If a student is registered in courses, they may continue to attempt those courses until that time. Upon return to studies, they shall no longer be registered in a collaborative degree program and they must register in another Program and Plan as outlined in Academic Regulations **2** and **18.5.2**.

All students may appeal a requirement to withdraw from the Faculty of Arts and Science in the usual way through the academic appeal regulations. If the requirement to withdraw is imposed by the partner institution, then they must make any appeal according to the regulations of that institution.

18.5.6 – Academic Regulation 15 (Voluntary Withdrawal and Return to Studies)

If a student withdraws voluntarily from the collaborative program and from the Faculty of Arts and Science but continues to pursue their studies at the partner institution, then later decides to return to the Faculty of Arts and Science, they shall be bound by the provisions of Academic Regulation **15**. Students are warned that they may be required to apply for admission to the Faculty as an external student and admission will therefore not be guaranteed.

18.5.7 – Academic Regulation 16 (Requirements for Graduation)

Courses attempted at the partner institution will not be considered when evaluating a student's eligibility for a Degree with Distinction.

Appeal of Academic Decisions

Information on the appeals process is available from Dunning Hall, 1st floor, or at <http://www.queensu.ca/artsci/students-at-queens/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 information relating to *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 a health care or related professional.

Official documentation does not need to outline the specifics of the particular condition or matter affecting the student, but must 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 Queen’s Student Accessibility Services. 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 International Center for Academic Integrity (ICAI) defines academic integrity as “a commitment, even in the face of adversity, to six fundamental values: honesty, trust, fairness, respect, responsibility and courage. 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 University Ombudsman);
- (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 website, as well as the Arts and Science Faculty Office.

The Senate *Policy on Student Appeals, Rights and Discipline* (SARD) 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 7 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 decision of the Associate Dean (Studies) 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 – Types of Hearings

The Academic Integrity and Conduct Panel shall hold one of either of two types of hearings, depending on the circumstances leading to the appeal.

- (i) A full (i.e. *de novo*) hearing shall be held only in cases where a finding of a departure from academic integrity was originally made by the Associate Dean (Studies).
- (ii) An appeal hearing shall be held in all other cases, specifically in cases where a finding of a departure from academic integrity was originally made by the instructor and then subsequently appealed to the Associate Dean (Studies).

2.3.1.1 – Full Hearing

In a full hearing, the Academic Integrity and Conduct Panel shall review and consider all evidence pertaining to the case, including new evidence that may be introduced prior to the hearing.

2.3.1.2 – Appeal Hearing

In an appeal hearing, the Academic Integrity and Conduct Panel shall review the decision of the Associate Dean (Studies) based on the same information that was available to the Associate Dean (Studies) at the time that the decision was made.

2.3.2 – 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.

2.3.3 – Review of Appeal Documentation

If material in addition to that supplied by the student will be considered, the student must have at least 7 calendar days to review and respond to that material.

2.3.4 – 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.

2.3.5 – 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.

2.3.6 – 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.

2.3.7 – 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 two weeks of having received a decision from the Academic Integrity and Conduct Panel. Students should contact the University Ombudsman to be informed of the appeal process.

2.4.2 – 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.

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 or final examinations (see Appeal of Academic Decisions, section 3); and
- (ii) To request to write the final examination for a class at a later 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 as soon as possible after receipt of the decision that is being appealed, and no later than the relevant deadline specified in Appeal Regulation 3.2.2, Timeline of Appeals. An appeal fee must also be submitted with the appeal documents. Students must complete the Associate Dean (Studies) online 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

As part of the appeal review process, instructors, department administrators or other persons who have provided information contained in the appeal may be contacted to confirm or respond to statements presented in the appeal. If material in addition to that supplied by the student will be considered, the student will be advised of this material and will be given an opportunity 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)

In general, with the exception of appeals related to grading of term work or final examinations where other criteria will apply, appeals to the Associate Dean (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 Office of 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)

The decisions of the Associate Dean (Studies) on matters related to appeals of grading of term work or final examinations are final.

In all other cases, 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 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 submit incomplete work in a class, or to complete a deferred exam in a class (see Academic Regulation **10**);
- (vi) Instructors' decisions on grading of term work or final examinations (see Academic Regulation **11**);
- (vii) To request to write the final examination for a class at an earlier time than formally scheduled (see Academic Regulation **8**);
- (viii) To request to complete any part of the third or fourth year of an honours degree program at another university (Fall and/or Winter Terms) (see Academic Regulation **14**);
- (ix) 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 as soon as possible, but no later than 21 calendar days after receipt of 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.

No additional information should be supplied, as the role of the Board of Studies is to review the decision of the Associate Dean (Studies) based on the same information available to the Associate Dean (Studies) at the time the decision was made. If new material is included, the appeal will be redirected to the Associate Dean (Studies) for reconsideration. After assessing new information, the Associate Dean (Studies) may decide to overturn the previous decision or to redirect the appeal to the Board of Studies for consideration.

3.1.3.3 – Review of Documentation

Students must have at least 7 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, 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 decisions on 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 submit incomplete work in a class, or to complete a deferred exam in a class (see Academic Regulation **10**);
- (vi) To request to write the final examination for a class at an earlier time than formally scheduled (see Academic Regulation **8**);
- (vii) To request to complete any part of the third or fourth year of an honours degree program at another university (Fall and/or Winter Terms) (see Academic Regulation **14**);
- (viii) 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 University Ombudsman 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*).

Students who have graduated from the Faculty of Arts and Science are not eligible to submit an appeal of any kind after 21 days of their graduation.

3.2.2 – Timeline of Appeals

3.2.2.1 – 21-Day Appeal Timeline

There is a 21-day deadline to submit an appeal related to any of the following matters:

- (i) To add a course after the last official date for adding classes (see *Academic Calendar Dates*);
- (ii) Instructors' decisions on grading of term work or final examinations (see Academic Regulation **11**);
- (iii) A requirement to withdraw (see Academic Regulation **13**).

3.2.2.2 – Explanation of 21-Day Appeal Timeline

Any appeal of the academic matters listed above 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 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 and that students are not left at a disadvantage in terms of enrolment in classes or assessment of academic standing. Timely decision making also allows 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.

3.2.2.3 – One-Term Appeal Timeline

There is a one-term deadline to submit an appeal related to any of the following matters:

- (i) To drop a course after the last official date for dropping classes (see *Academic Calendar Dates*);
- (ii) To request Aegrotat standing in a course (see Academic Regulation **10**);
- (iii) To request Credit (CR) standing in a course (see Academic Regulation **10**);
- (iv) To request an extension of the deadline to submit incomplete work in a class, or to complete a deferred exam (see Academic Regulation **10**).

3.2.2.4 – Explanation of One-Term Appeal Timeline

Any appeal of the academic matters listed above must be made by the end of the subsequent term of that in which the course being appealed was taken.

<i>Term of Course being Appealed</i>	<i>One-Term Appeal Deadline</i>
Fall Term	30 April
Winter Term	15 September
Summer Term	31 December

This timeline is in place for several reasons. First, the one-term timeline offers students time to seek academic counselling, to write and submit an appeal, and to collect the supporting documents necessary to the appeal. It also recognizes that the extenuating circumstances that led to the difficulty in completing the class(es) are usually not resolved within 21 days and that students require additional time to initiate the appeal process.

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.

3.2.2.5 – Appealing the 21-Day or One-Term 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.

3.2.2.6 – Appealing after Graduation

No appeal may be submitted by a student after 21 days following graduation.

3.2.3 – *Appealing the Same Matter*

Once an appeal has been decided by the Board of Studies, students may not appeal the same matter to the Associate Dean (Studies).

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 enrolled 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. If the class was full prior to the

deadline and a wait list existed for the class, the student must have been at or near the top of the wait list for the class in order for the appeal to be considered.

An appeal to add a class late must be submitted within 21 calendar days of the deadline to add a class for the specified term.

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, as indicated in the Faculty's *Academic Calendar Dates*. 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 must be provided with the letter of appeal. If the appeal is successful, a grade of DR will be placed on the transcript. If the appeal is unsuccessful, the final grade earned will remain on the transcript. A student may not appeal to remove a DR grade from the transcript.

Students should be aware that if there are extenuating circumstances, other options are available in place of a DR grade, particularly when some or all of the coursework has been completed. These include Incomplete status (IN), Credit status (CR) or an Aegrotat grade in the class. 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**).

Students may not appeal to drop a class in which there is a pending investigation of a departure from academic integrity, or a finding of a departure from academic integrity that has resulted in a failure in the class.

An appeal to drop a class must be submitted by the end of the subsequent term to the term 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 class syllabus) must be completed. A medical certificate or other documentation that outlines how the personal extenuating circumstances affected the student's academic performance must be provided with the letter of appeal. As part of the appeal the instructor(s) involved must indicate whether the student has demonstrated an understanding of the course material. If this request is granted, the instructor(s) will be asked to provide an estimated final grade (see Academic Regulation **10**).

An appeal for aegrotat standing must be submitted by the end of the subsequent term to the term 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 must be provided with the letter of appeal (see Academic Regulation **10**).

An appeal for credit standing must be submitted by the end of the subsequent term to the term 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 Submit Incomplete Work or to Complete a Deferred Examination in a Class

As outlined in Academic Regulation **10**, a student affected by extenuating circumstances may ask the course instructor for incomplete standing (IN), or that the final examination be delayed, for up to one full term after the completion of a class. If this request is granted, any further request to submit incomplete work or 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 completing the outstanding work or writing the examination by the end of the next term must be provided with the letter of appeal. A note from the instructor agreeing to a further extension and stating a revised final date for completion of the course work in question or the final examination must also be included.

Normally such requests are considered if the student has participated actively in the class and only one or two elements of the class have not been completed due to extenuating circumstances beyond the student's control. Students with extenuating circumstances who have been unable to complete the majority of the work in a class should consider an appeal to drop a class after the deadline rather than an extension of the deadline to submit incomplete work.

An appeal for the extension of the deadline to submit incomplete work or to complete a deferred examination beyond one term must be made by the end of the term following that in which the incomplete work was to be submitted or the deferred examination was to be written.

3.3.6 – To Request a Review of Instructors' Decisions on Grading of Term Work and/or Final Examinations

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

As part of the appeal request, the student should:

- (i) clearly articulate grounds for reconsideration and identify specifically the substance of an answer where the student feels the mark given was not evaluated fully, for example:
 - show, in an objective answer, that a correct answer has been counted as incorrect;
 - show, in a subjective or essay answer, that the response has been under evaluated substantially; and
- (ii) provide relevant documentation to support the appeal (i.e. class notes, etc.).

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 with the appeal. 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**).

The term work or examination in question will be forwarded to the Head of the relevant academic unit with a request to facilitate the review by appointing two reviewers on behalf of the Office of the Associate Dean (Studies). One of the two reviewers is normally the original instructor; however if the instructor is not available, or if the student can demonstrate bias or other conflict on the part of the original instructor, the Department Head/Director may appoint any two reviewers with good knowledge of the course material. In such cases the original instructor may be asked to provide any documentation relevant to the review. Each reviewer will independently reread the term work or examination. Where possible, the student's identity will remain confidential from the reviewers (names and student numbers will be removed from the term work or examination). In matters where there is a discrepancy in grades

between the reviewers, the Department Head/Director will arbitrate the final grade, and will report the grade to the Office of the Associate Dean (Studies), usually within 21 calendar days of receiving the request.

The reconsidered grade, which may be higher than or unchanged from the original grade, may not be further appealed to the Board of Studies, as the Board has no academic jurisdiction.

3.3.7 – 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 cumulative GPA of 1.60) 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 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 deadlines.

3.3.8 – 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 must 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 enrol in classes.

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.

3.3.9 – To Request to Waive a Requirement to Withdraw for a Minimum of Three Years

3.3.9.1 – 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 must 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, the continuation of 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 enrol in classes.

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.

3.3.9.2 – 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 must include 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 the 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 enrol in classes.

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 and General Degree Upgrade

Notes

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

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

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

Section 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 Engineering and Applied Science, School 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 at <http://www.queensu.ca/artsci/programs-and-degrees/dual-and-second-degrees>.

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 24.0 units (or 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 2.60;
- (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 toward 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, Registered under the Primary Program

Students may count a maximum of 60.0 shared units toward 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 courses that may transfer to an Arts and Science degree.) Shared units may count towards the Arts and Science Plan.

1.2.2 – Primary Units, Registered under the Primary Program

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 course 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, Registered under the Arts and Science Program

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 course 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 in the Faculty of Arts and Science at Queen's University, and may include independent study courses and Arts and Science courses taken at the Bader International Study Centre. They may not be transferred from another post-secondary institution or be taken in 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.

1.2.3.1 – Secondary Units for General Degrees

The total number of Arts and Science units required for a B.A.(Gen.), B.Cmp.(Gen.) or B.Sc.(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.

1.2.4 – Plan Units

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

¹ "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.

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 open enrolment 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 Arts and Science 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 Plan(s) 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. Conditions in Academic Regulation 16 apply.

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).

Section 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 *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 at <http://www.queensu.ca/artsci/programs-and-degrees/dual-and-second-degrees>.

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. 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.

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; a B.Mus. degree requires a minimum of 66.0 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 57.0 transferable units from the first degree toward a B.A.(Hons.), B.Cmp.(Hons.), B.Mus. 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 a 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 admitted to the Second Degree Program prior to the Fall Term 2017 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.).

Students admitted to the Second Degree Program in the Fall Term 2017 and later must complete a **minimum of 60.0 additional Queen's units** in a significantly different Plan from their first degree to 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.

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 section 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. However, students may also complete the requirements for both degrees before applying to graduate, and receive both degrees at the same time.

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.

Students in the Faculty of Arts and Science who have completed the requirements for two degree programs simultaneously are not required to apply for admission to the Second Degree Program. Such students may declare the second program and Plan upon completion of all requirements and may receive both degrees together.

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.

Section 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 who have completed a B.A.(Gen.), B.Cmp.(Gen.) or B.Sc.(Gen.) through on-campus studies in the Faculty of Arts and Science at Queen's University and who wish to complete an Honours degree are not required to apply for admission if they have not studied elsewhere and have not completed a new basis of admission.

Students who have completed a B.A.(Gen.), B.Cmp.(Gen.) or B.Sc.(Gen.) through on-campus studies in the Faculty of Arts and Science at Queen's University and who have completed a new basis of admission through studies at another post-secondary institution, must apply to the Second Degree Program through Undergraduate Admission in order to complete an on-campus Honours degree, subject to the enrolment limitations in Section 2.1. In this case students may receive transfer credits.

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 Not Eligible 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.Cmp.(Gen.) or B.Sc.(Gen.) degree at Queen's may, if the relevant Department determines that they are eligible for the honours degree, be admitted to an appropriate honours Plan (see Academic Regulation 2). They may complete the requirements for an Honours degree in the same or a different Plan from 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.

ANAT 100/3.0 Anatomy of the Human Body

This web-based anatomy course is designed to introduce students to 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 Only offered online. Consult the Bachelor of Health Sciences program office.

LEARNING HOURS 120 (480;72P)

EXCLUSION No more than one course 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 270/3.0; ANAT 312/3.0; ANAT 315/3.0; ANAT 316/3.0.

ANAT 101/3.0 Introductory Human Anatomy

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 one course 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 270/3.0; ANAT 312/3.0; ANAT 315/3.0; ANAT 316/3.0.

ANAT 215/3.0 Principles of Human Morphology I

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.

PREREQUISITE (BIOL 102/3.0 and BIOL 103/3.0) or (BIOL 201/3.0 and BIOL 202/3.0).

EXCLUSION No more than 3.0 units from ANAT 215/3.0; ANAT 315/3.0.

ANAT 216/3.0 Principles of Human Morphology II

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.

EXCLUSION No more than 3.0 units from ANAT 216/3.0; ANAT 316/3.0.

ANAT 270/3.0 Human Anatomy and Morphology

This course is designed to introduce the foundations of human structure and function to students at all levels of post-secondary education. Through a series of learning modules, students will develop an understanding of the architecture of the human body through interactive study using a virtual cadaver. This course will survey the gross and microscopic anatomy of the body organ systems including the skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic/immune, respiratory, digestive, urinary and reproductive systems.

NOTE Only offered online. Consult the Bachelor of Health Sciences program office.

NOTE May not be taken for credit towards the Plan requirements of the LISC Specialization or Major Plans.

LEARNING HOURS 120 (600;60P)

PREREQUISITE (BIOL 102/3.0 and BIOL 103/3.0) or permission of the Department of Biomedical and Molecular Sciences.

ONE-WAY EXCLUSION May not be taken with or after ANAT 215/3.0; ANAT 216/3.0; ANAT 315/3.0; ANAT 316/3.0.

ANAT 309/3.0 Functional Histology

An outline of basic mammalian tissues.

NOTE Priority will be given to students registered in a LISC Specialization Plan.

LEARNING HOURS 120 (36L;24Lb;60P)

PREREQUISITE (BIOL 102/3.0 and BIOL 103/3.0) or (BIOL 201/3.0 and BIOL 202/3.0).

ANAT 312/3.0 Functional Neuroanatomy

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.

PREREQUISITE (ANAT 215/3.0 and ANAT 216/3.0) or (ANAT 315/3.0 and ANAT 316/3.0).

ANAT 315/3.0 The Human Musculoskeletal System

Gross and functional anatomy of the back, body wall, upper and lower limbs, including blood supply and neural controls.

PREREQUISITE (BIOL 102/3.0 and BIOL 103/3.0) or (BIOL 201/3.0 and BIOL 202/3.0) or KNPE 153/3.0 or *PHED 153/3.0*.

EXCLUSION No more than 3.0 units from ANAT 215/3.0; ANAT 315/3.0.

ANAT 316/3.0 The Human Visceral Systems

Gross and functional anatomy of the thorax, abdomen and pelvis, head and neck.

PREREQUISITE (BIOL 102/3.0 and BIOL 103/3.0) or (BIOL 201/3.0 and BIOL 202/3.0) or KNPE 153/3.0 or *PHED 153/3.0*.

EXCLUSION No more than 3.0 units from ANAT 216/3.0; ANAT 316/3.0.

ANAT 409/3.0 Selected Topics in Histology

A focused histological and cell biological study of three selected mammalian tissues, organs and/or systems.

PREREQUISITE Level 4 and a GPA of 2.5 and (registration in a LISC Major or Specialization Plan) and [ANAT 309/3.0 or (ANAT 215/3.0 and ANAT 216/3.0) or (ANAT 315/3.0 and ANAT 316/3.0)].

ANAT 416/3.0 Biology of Reproduction

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.

PREREQUISITE Level 4 and registration in a LISC Major or Specialization Plan and a GPA of 2.5 and [(ANAT 215/3.0 and ANAT 216/3.0) or ANAT 309/3.0].

ANAT 417/3.0 Mammalian Embryonic Development

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.

LEARNING HOURS 114 (24L;12S;1I;77P)

PREREQUISITE Level 4 and a GPA of 2.5 and (registration in a LISC Major or Specialization Plan) and [ANAT 309/3.0 or (ANAT 215/3.0 and ANAT 216/3.0) or (ANAT 315/3.0 and ANAT 316/3.0)].

ANAT 499/12.0 Research Project in Anatomy and Cell Biology

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 Acceptance by a supervisor required prior to registration.

NOTE Students whose research requires the care and/or handling of animals must also complete the Introductory Animal Care Course and if required the appropriate Animal Use workshops through the Office of the University Veterinarian.

LEARNING HOURS 480 (288Lb;24G;24I;144P)

PREREQUISITE Level 4 and registration in a LISC Specialization Plan and a GPA of 2.50 and [(ANAT 215/3.0 and ANAT 216/3.0) or ANAT 309/3.0 or (ANAT 315/3.0 and ANAT 316/3.0)].

EXCLUSION No more than 12.0 units from ANAT 499/12.0; CANC 499/12.0; EPID 499/12.0; LISC 499/12.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHAR 499/12.0; PHGY 499/12.0, *MICR 455/6.0*.

ANSH 101/3.0 Beginning Anishinaabe Language and Culture I

An introduction to the language and culture of the Anishinaabe people. This course is designed for those who have neither been exposed to Anishinaabemowin nor its traditional societal practices. Gain a rich understanding of the Anishinaabe people and their language at the beginning level.

LEARNING HOURS 120 (36L;84P)

EXCLUSION No more than 3.0 units from ANSH 101/3.0; LLCU 101/3.0 (Anishinaabemowin I).

ANSH 102/3.0 Beginning Anishinaabe Language and Culture II

A continuation of ANSH 101/3.0. Students will participate and begin to develop the ability to read, write and speak some basic Anishinaabemowin and further their understanding of the rich culture, traditions and worldviews of the Anishinaabe people.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ANSH 101/3.0.

EXCLUSION No more than 3.0 units from ANSH 102/3.0; LLCU 102/3.0 (Anishinaabemowin I).

ARAB 100/6.0 Introductory Arabic (Modern Standard)

Introduction to the basic structures of Modern Standard Arabic. This course gives intensive training equally in listening, speaking, reading, and writing.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE Permission of the Instructor.

ARAB 200/6.0 Intermediate Modern Standard Arabic

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE ARAB 100/6.0 or permission of the Instructor.

ARTF 100/6.0 Introductory Drawing

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 101/3.0 Fundamentals of Drawing and Painting

A foundation course aimed at developing basic skills in drawing and painting, embracing a variety of subjects, materials and techniques.

NOTE Materials: estimated cost \$300.

NOTE Only available to students in the Faculty of Education

LEARNING HOURS 144 (48Lb;96P)

RECOMMENDATION ARTH 120/6.0. A survey course in Art History provides increased visual literacy at the studio level.

Previous experience in painting and drawing is highly recommended.

PREREQUISITE Permission of the instructor.

EXCLUSION No more than 1 course from ARTF 101/3.0; ARTF 106/3.0; ARTF 127/6.0.

EXCLUSION No more than 1 course from ARTF 101/3.0; ARTF 106/3.0; ARTF 128/6.0.

ARTF 102/3.0 Fundamentals of Drawing and Sculpture

A foundation course in drawing and sculpture aimed at examining the visual, tactile and structural characteristics of various materials in relation to 3 dimensional space.

NOTE Materials: estimated cost \$250.

NOTE Only available to students in the Faculty of Education

LEARNING HOURS 144 (48Lb;96P)

RECOMMENDATION ARTH 120/6.0. A survey course in Art History provides increased visual literacy at the studio level.

Previous experience in studio art is highly recommended.

PREREQUISITE ARTF 101/3.0 or permission of the instructor.

EXCLUSION No more than 6.0 units from ARTF 102/3.0; ARTF 127/6.0.

EXCLUSION No more than 6.0 units from ARTF 102/3.0; ARTF 128/6.0.

ARTF 106/3.0 Introductory Fine Art (Drawing and Painting)

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 1 course from ARTF 101/3.0; ARTF 106/3.0; ARTF 127/6.0.

EXCLUSION No more than 1 course from ARTF 101/3.0; ARTF 106/3.0; ARTF 128/6.0.

ARTF 125/3.0 Introduction to Studio Art in Printmaking

This survey course introduces various Printmaking techniques including monoprint, relief, etching, digital and hybrid methods. Students focus on applying the various methods to personal research interests to create original print based imagery that demonstrates formal, conceptual, historical and contemporary consideration.

NOTE BFAH students may not enrol in this course.

NOTE Materials: estimated cost \$100.

RECOMMENDATION Some drawing experience.

ONE-WAY EXCLUSION May not be taken with or after ARTF 227/6.0 or ARTF 265/3.0.

ARTF 127/6.0 Introductory Fine Art I

A foundation course that offers two of the sections from the four media areas available at this level: painting, drawing, two-dimensional fundamentals, and three-dimensional fundamentals. 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.

NOTE Open only to students in a BFA Program.

NOTE Materials: estimated cost \$600 (includes technical skills fee of \$25).

LEARNING HOURS 288 (144Lb;144P)

EXCLUSION No more than 6.0 units from ARTF 100/6.0; ARTF 127/6.0.

EXCLUSION No more than 1 course from ARTF 101/3.0; ARTF 106/3.0; ARTF 127/6.0.

EXCLUSION No more than 6.0 units from ARTF 102/3.0; ARTF 127/6.0.

ONE-WAY EXCLUSION May not be taken with or after: ARTF 125/6.0; ARTF 260/3.0; ARTF 265/3.0.

ARTF 128/6.0 Introductory Fine Art II

A continuation of ARTF 127/6.0, this course offers two of the sections from the media available at this level: painting, drawing, two-dimensional fundamentals, and three-dimensional fundamentals.

NOTE Open only to students in a BFA Program.

NOTE Materials: estimated cost \$600

NOTE A \$250 deposit is required by students who intend on participating in the voluntary 2nd year field trip to New York.

LEARNING HOURS 288 (144Lb;144P)

PREREQUISITE A minimum grade of C- in ARTF 127/6.0 and a GPA of 1.60.

EXCLUSION No more than 1 course from ARTF 101/3.0; ARTF 106/3.0; ARTF 128/6.0.

EXCLUSION No more than 6.0 units from ARTF 102/3.0; ARTF 128/6.0.

ARTF 227/6.0 Intermediate Fine Art I

This course offers two of the sections from the four media areas available at this level: painting, drawing, print media and sculpture. Course content builds on concepts developed in ARTF127/6.0 and ARTF128/6.0. New techniques, skills and concepts are introduced.

NOTE Open only to students in a BFA Program.

NOTE The voluntary field trip to New York is highly recommended; the estimated cost is \$700.

NOTE Materials: estimated cost \$250.

LEARNING HOURS 288 (144Lb;144P)

PREREQUISITE A minimum grade of C- in ARTF 128/6.0 and a GPA of 1.60.

ARTF 228/6.0 Intermediate Fine Art II

This course offers two of the sections from the four media areas available at this level: painting, drawing, print media and sculpture. Course content builds on concepts developed in ARTF127/6.0 and ARTF128/6.0. New techniques, skills and concepts are introduced.

NOTE Open only to students in a BFA Program.

NOTE Materials: estimated cost \$250.

LEARNING HOURS 288 (144Lb;144P)

PREREQUISITE A minimum grade of C- in ARTF 227/6.0 and a GPA of 1.60.

ARTF 260/3.0 Studies in Studio Practice

Non-B.F.A. students work with media, techniques and strategies of contemporary and earlier artists. Coursework includes drawing, painting, and studio visits. Discussion on artists' writings on studio practice/theory, and art practice as research. Emphasis on understanding process rather than skill development.

NOTE Not available for credit towards a B.F.A. program.

NOTE Materials/field trip: estimated cost \$150-200.

RECOMMENDATION ARTH 120/6.0.

ARTF 265/3.0 Intermediate Studies in Studio Practice

An intermediate studio practice course exploring the practical and pedagogical aspects of print-based artwork, processes and strategies, as well as the resulting theoretical implications that have accompanied recent technological changes in production and distribution.

NOTE Only available to students in the Faculty of Education.

NOTE Materials estimated cost: \$200.

RECOMMENDATION ARTH 120/6.0.

PREREQUISITE ARTF 101/3.0 or ARTF 102/3.0 or permission of the instructor.

ARTF 275/3.0 Digital Media in Studio Practice

In this introductory studio e-course, students will examine the current nature of digital media practices in relation to Contemporary Art. Through studio research, students will explore the context of digital practices and theories, and its effect on the production of images and objects within the digital landscape.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (600;60P)

PREREQUISITE Level 2 or above.

ARTF 337/9.0 Advanced Programs I

In this advanced course students select one media choice from these areas: paint media, sculpture/new media or print media.

NOTE Open only to students in a BFA Program.

NOTE Materials: estimated cost \$350.

LEARNING HOURS 324 (144Lb;180P)

PREREQUISITE A minimum grade of C- in ARTF 228/6.0 and a GPA of 1.60.

ARTF 338/9.0 Advanced Programs II

In this second advanced-level course students choose two media sections from these areas: paint, media, sculpture/new media, or print media. The media area chosen must be different from that studied in ARTF 337/9.0. The course will include seminars introducing elements of professional practice.

NOTE Open only to students in a BFA Program.

NOTE Materials: estimated cost \$350.

LEARNING HOURS 324 (144Lb;180P)

PREREQUISITE A minimum grade of C- in ARTF 337/9.0 and a GPA of 1.60.

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, print media, 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.

NOTE Materials: estimated cost \$50 to \$150.

LEARNING HOURS 309 (9S;12I;288P)

PREREQUISITE Level 4 and (a GPA of 2.60 in ARTF 337/9.0 and ARTF 338/9.0) and (a grade of C- in ARTH 120/6.0) and (a minimum of 6.0 units in ARTH at the 200-level) and a GPA of 1.90.

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.

NOTE Materials: estimated cost \$50 to \$150.

LEARNING HOURS 309 (9S;12I;288P)

PREREQUISITE A minimum grade of C- in ARTF 447/9.0.

ARTH 116/3.0 Art and Architecture in Britain from the Classical Period to c.1700

A chronological survey of painting, sculpture and architecture in western culture from Greece and Rome through to the early modern period. The art works will be studied at British galleries, museums and architectural monuments.

NOTE Offered only at the Bader International Study Centre, Herstmonceux. Students must participate in field trips.

EXCLUSION No more than 9.0 units from ARTH 116/3.0; ARTH 117/3.0; ARTH 120/6.0.

ARTH 117/3.0 Art and Architecture in Britain from c.1700 to the Present

A chronological survey of painting, sculpture and architecture in western culture from c.1700 to the present day. The art works will be studied at British galleries, museums and architectural monuments.

NOTE Offered only at the Bader International Study Centre, Herstmonceux. Students must participate in field trips.

EXCLUSION No more than 9.0 units from ARTH 116/3.0; ARTH 117/3.0; ARTH 120/6.0.

ARTH 120/6.0 Art in the West from Antiquity to Modernity

A survey of famous and lesser-known works of painting, sculpture, architecture, and other art forms from Antiquity, the Middle Ages, the Renaissance, the Baroque, and the Modern Age. Themes include politics, religion, mythology, gender roles, techniques, conservation and intersections with non-western cultures.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 240 (48L;12T;48O;132P)

EXCLUSION No more than 9.0 units from ARTH 116/3.0; ARTH 117/3.0; ARTH 120/6.0.

ARTH 203/3.0 Art and Popular Culture

This course explores the relationship between the development of a "popular culture" and the visual arts between c. 1700-2000 in Europe and North America.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 208/3.0 Caves, Cathedrals, Capitals: Introduction to World Architecture

Covering considerable territory, from the painted caves of Niaux in South-West France to megalithic monuments such as Stonehenge, from the villages of the Middle Ages to the cities of Modernity, this course introduces key ideas, monuments, building technologies and protagonists in the history of Architecture from prehistory to present.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 210/3.0 An Introduction to Technical Art History

A course surveying the study of artists' materials and techniques through methods of examination such as X-radiography, infrared reflectography, dendrochronology, and high-resolution digital imaging.

LEARNING HOURS 120 (24L;12Pc;84P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 211/3.0 Science and Art Conservation: Complexities and Controversies

This course will explore the scientific aspects of art conservation, including the materials found in cultural heritage, their degradation, and the scientific techniques used in their analysis. Topics to be discussed include conservation treatments and preventative conservation, as well as forgeries and conservation controversies in history.

LEARNING HOURS 120 (36L;12O;72P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 212/3.0 Medieval Art

An introduction to the arts of the Middle Ages (c.300-1400) from the origins of Christian art under the Emperor Constantine, through the Early Christian, Byzantine, Romanesque and Gothic Periods.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 214/3.0 Renaissance Art and Architecture before 1500

A study of Renaissance art and architecture before 1500 within the context of the social, political and economic history of Western Europe. Key monuments, themes and concepts will be stressed.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 215/3.0 Renaissance Art and Architecture after 1500

A study of Renaissance art and architecture after 1500 within the context of the social, political and economic history of Western Europe. Key monuments, themes and concepts will be stressed.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 222/3.0 Impressionism and Post-Impressionism

This course offers a unique opportunity to study the art of Manet, Degas, Monet and Van Gogh, where many of the paintings studied will be viewed on gallery visits to London and Paris. Some of the classes will take place in the Musée D'Orsay in Paris and the National Gallery and Courtauld Institute in London. Further classes at Herstmonceux Castle explore gender debates, the French nude and Paris as the fashionable centre of modernity.

NOTE Offered only at the Bader International Study Centre, Herstmonceux. Students must participate in field trips.

LEARNING HOURS 129 (30L;6S;24T;18G;6I;12O;9Oc;24P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 223/3.0 Art in Europe c.1800-1850

A comparative study of English and Continental European art in the first half of the 19th century. Topics include landscape as an expression of class and power, art and politics in French Romanticism, gender roles in Pre-Raphaelite painting and the rhetoric of Realism.

NOTE Offered only at the Bader International Study Centre, Herstmonceux. Students must participate in field trips.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or permission of the Department.

EXCLUSION No more than 3.0 units from ARTH 223/3.0; ARTH 250/3.0.

ARTH 226/3.0 Histories of Modern Art

This course will examine the histories, meanings and sites of modern art. Students will become familiar not only with the works themselves, but with shifts in critical conceptions and key art historical problems surrounding modern art.

LEARNING HOURS 120 (24L;12G;12O;72P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 228/3.0 Histories of Contemporary Art

This course will examine the histories, meanings and sites of contemporary art from the 1960s to the present. Students will become familiar not only with the works themselves, but with shifts in critical conceptions and popular media that affect both the production and reception of contemporary art.

LEARNING HOURS 120 (24L;12G;12O;72P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 231/3.0 Canadian Art I

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 232/3.0 Canadian Art II

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 242/3.0 Introduction to the History of Photography

An introduction to the history of photography as technology, art, and social practice. Within the larger historical contexts of society and culture, this course surveys key developments and applications in France, England, and the United States, and their spread to other parts of the world, and considers the work of major photographers and their influence.

LEARNING HOURS 120 (24L;12G;24O;60P)

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 for the costs involved. Estimated cost: Room and board \$4,500, Travel \$1500.

PREREQUISITE 6.0 units in ARTH.

ARTH 248/3.0 Introduction to the Indigenous Arts of North America

An introduction to the arts and visual culture of the Indigenous peoples of North America from north of the Rio Grande to the Arctic, encompassing pre-history, colonialism, and the modern period. Key works from six regional zones are studied in their historical and cultural contexts.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 250/3.0 Art, Society, and Culture

An introduction to the social conditions and cultural movements that shaped European visual art of the nineteenth century in its global context. The course will stress the tension between modernity and anti-modernism as well as competing views on the very nature of visual art.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (48O;72P)

PREREQUISITE Level 2 or above or permission of the Department.

EXCLUSION No more than 3.0 units from ARTH 223/3.0; ARTH 250/3.0.

ARTH 253/3.0 Baroque Art

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.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION ARTH 120/6.0.

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 260/3.0 Culture and Conflict

An investigation of the impact of war on art and architecture, as well as human attempts to preserve cultural heritage. A chronological or thematic approach may be taken, with focus placed on one or more case studies, such as: the Sacks of Rome, the Napoleonic wars, Nazi looting, the Cultural Revolution in China, and Afghanistan under Taliban rule.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 272/3.0 Latin American Art

Surveys the art and architecture of Latin America from the pre-Hispanic period to the present, from Patagonia to California. Particular attention is paid to the contribution of aboriginal artists and traditions to colonial visual culture and the built environment. Considers the rise of the academies, Nationalism, Indigenism, Romanticism, Modernism (Kahlo, Rivera, Tarsila), Madí and Chicano muralism.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 288/3.0 Art Worlds

This course introduces students to key institutions of art by studying their histories, current practices, and future challenges. Using a case study approach to institutions including museums, artist-run centres, auction houses, and private galleries, the course develops students' understanding of art worlds both in Canada and globally.

LEARNING HOURS 114 (24L;12G;18O;60P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 292/3.0 Architecture from 1900 to the Present

An examination of architecture in the western world, from 1900 to the present.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or permission of the Department.

ARTH 301/3.0 The Artwork as Material Object

A study of selected objects with a focus on materials and meanings.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

ARTH 303/3.0 Issues in Contemporary Art and Popular Culture

This course examines intersections between art and popular culture in the late twentieth and twenty-first centuries.

Students will develop an understanding of the histories of the terms “ART” and “popular culture”, how they have been defined, historically opposed, and are contemporary art (e.g. Fluxus, manga, Tropicalia, net.art and post-internet).

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

EXCLUSION No more than 3.0 units from ARTH 303/3.0 and ARTH 305/3.0 (2017-18).

ARTH 304/3.0 Issues in the History of Canadian Art

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.

LEARNING HOURS 120 (30L;60c;84P)

PREREQUISITE Level 3 or above.

ARTH 305/3.0 Topics in Modern and Contemporary Art History

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.

LEARNING HOURS 120 (30L;60c;84P)

RECOMMENDATION ARTH 226/3.0 and ARTH 228/3.0.

PREREQUISITE Level 3 or above.

ARTH 306/3.0 Schinkel to Speer: German Architecture from 1815 to 1945

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

ARTH 307/3.0 Romanesque: Art and Historicism in Europe c.800-1150

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

ARTH 308/3.0 Gothic Art in Europe c.1150-1400

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

ARTH 310/3.0 Feminism, Art, Art History

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).

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

ARTH 311/3.0 Gender and Modernism

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.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION ARTH 226/3.0 and ARTH 228/3.0.

PREREQUISITE Level 3 or above.

ARTH 312/3.0 Quattrocento Painting

An examination of selected topics in 15th-century Italian Renaissance painting.

LEARNING HOURS 126 (24L;12G;90P)

RECOMMENDATION ARTH 214/3.0 and ARTH 215/3.0.

PREREQUISITE Level 3 or above.

ARTH 316/3.0 Special Topics in Renaissance Art and Architecture in Britain

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

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

ARTH 324/3.0 French Art and Its Reception, 1855-1912

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.

LEARNING HOURS 126 (24L;12G;90P)

PREREQUISITE Level 3 or above.

ARTH 336/3.0 British Landscape Art

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

Selected problems in the development of Canadian painting and sculpture in the modern period.

LEARNING HOURS 126 (24L;12G;90P)

PREREQUISITE Level 3 or above.

ARTH 340/3.0 Aspects of Contemporary Art in Canada

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.

LEARNING HOURS 126 (24L;12G;90P)

PREREQUISITE Level 3 or above.

ARTH 341/3.0 Photography and Society

An introduction to the processes, practices and histories of photography; the changing topics address its interpretation and application since the 1840s.

LEARNING HOURS 126 (24L;12G;90P)

PREREQUISITE Level 3 or above.

ARTH 342/3.0 Photography in Canada 1839-1939

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.

LEARNING HOURS 126 (24L;12G;90P)

PREREQUISITE Level 3 or above.

ARTH 345/3.0 Italian Art of the High Renaissance

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.

LEARNING HOURS 126 (24L;12G;90P)

RECOMMENDATION ARTH 214/3.0 and ARTH 215/3.0.

PREREQUISITE Level 3 or above.

ARTH 347/3.0 Mannerism

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.

LEARNING HOURS 126 (24L;12G;90P)

RECOMMENDATION ARTH 214/3.0 and ARTH 215/3.0.

PREREQUISITE Level 3 or above.

ARTH 348/3.0 Arts of the Arctic

A study of the arts and visual culture of the Indigenous peoples of the northern circumpolar region encompassing Alaska, Canada, and Greenland, with a main focus on Dorset, Thule, and post-1950 Inuit arts. Students will examine the development of modern Inuit art markets, including reception, promotion, and circulation in the south.

LEARNING HOURS 120 (24L;12S;84P)

RECOMMENDATION ARTH 248/3.0.

PREREQUISITE Level 3 or above.

ARTH 352/3.0 Printmaking in Early Modern Europe

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.

LEARNING HOURS 126 (24L;12G;90P)

RECOMMENDATION ARTH 253/3.0.

PREREQUISITE Level 3 or above.

ARTH 353/3.0 Flemish Baroque Art

A detailed study of painting and related arts in Flanders (present-day Belgium) in the 17th century, with emphasis on the achievements of artists such as Rubens, Van Dyck, and Jordaens.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION ARTH 253/3.0.

PREREQUISITE Level 3 or above.

ARTH 354/3.0 Age of Rembrandt

A detailed study of painting and related arts in the Netherlands, ca.1580-1700. Developments in style and the growth of subject types such as genre, portraiture, landscape, and still life are examined in the cultural context of life in the Dutch Republic, with particular attention to the achievements of artists such as Rembrandt, Hals, and Vermeer.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION ARTH 253/3.0.

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.

LEARNING HOURS 126 (24L;12G;90P)

PREREQUISITE Level 3 or above.

ARTH 370/3.0 Architecture of the Baroque Period

Baroque and Rococo architecture and urbanism of Europe and beyond including Italy, France, Iberia, Central and Eastern Europe, Scandinavia, New Spain (Mexico), Peru, Brazil, India, Macau, Philippines. Includes Italian *bel composto*, impact of theater, salon culture in Paris, indigenous contributions outside Europe, ephemera, gardens.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

ARTH 372/3.0 Art of Colonial Latin America

Considers art, architecture, and ephemera in Colonial Latin America (1492-1820) with particular attention to the aboriginal contribution to visual culture and built environment and the impact of multiculturalism (Africans, Asians, mestizos, Europeans of various nationalities).

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

ARTH 375/3.0 Early Netherlandish Painting

A study of Netherlandish painters (c.1410-1560) from the Master of Flémalle and Jan van Eyck to Geertgen tot Sint Jans and Hieronymus Bosch.

LEARNING HOURS 126 (24L;12G;90P)

RECOMMENDATION ARTH 214/3.0 and ARTH 215/3.0.

PREREQUISITE Level 3 or above.

ARTH 380/6.0 Venice and Its Biennale: The Display of Contemporary Art and Culture in a Historic City

Instruction in Venice based on daily study visits to the Venice Biennale and sites of display for modern and contemporary art, such as the Peggy Guggenheim and Francois Pinault collections.

NOTE Students must pay a \$4,000.00 course fee for this course. The course fee covers accommodation, five group meals, public transit in Venice, entrance to all museums and galleries included on the syllabus, and passes for the Venice Biennale. Cost of travel and daily meals must also be paid by the student.

LEARNING HOURS 224 (75L;12S;56Pc;36G;45P)

PREREQUISITE 6.0 units in ARTH.

ARTH 383/3.0 The City

This course examines the phenomenon of the city, a settlement of high density that has, throughout history, offered many distinctive social and cultural experiences. The focus of this course will be urban art, architecture, planning, and material culture, and their relationship to those experiences. Specific urban case studies, Western and non-Western, will provide the foundation for our study.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

ARTH 390/3.0 Writing Art History Today

An examination of the history of the discipline and the epistemological assumptions underpinning art historical research and writing in the past and present.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

ARTH 393/3.0 The Portrait

As documents of personal and collective identity, portraits reflect the ideals and concerns of the people they depict and the contexts in which they circulate. This course explores the impact of portraiture as an art form and a social phenomenon. Course content may focus on one or more artists, media, historical periods or cultural traditions.

NOTE There will be at least one field trip to study portraits first-hand.

NOTE Also offered at the Bader International Studies Centre, Herstonceux. Learning Hours may vary.

LEARNING HOURS 114 (36L;12O;6Oc;60P)

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 Chair. 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.

LEARNING HOURS 130 (100Pc;30P)

PREREQUISITE 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.

PREREQUISITE 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.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

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.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 404/3.0 Conservation Principles

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.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 410/3.0 Studies in the History of Textiles and Dress

Studies in the textiles and dress of selected periods with a focus upon visual culture and/or material culture.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 415/3.0 Topics in Medieval Art History

A detailed study of one area or topic in the history of medieval European art.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 419/3.0 Performance Art Studies

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.

LEARNING HOURS 126 (18S;18Pc;90P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 420/3.0 Art and Activism

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.

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 421/3.0 Topics in Early 20th-century Visual and Material Culture

A detailed study of one area or topic in the history of early 20th-century art.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 422/3.0 Topics in Later 20th-century Visual and Material Culture

A detailed study of one area or topic in the history of later 20th-century art.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 425/3.0 House: Studies in the History of an Idea

This course considers the house as a central typology in the history of architecture and will explore it in its fullest theoretical and literary contexts. We consider the house as an idea and a material whole, including the art that it housed, the functions and performances that it staged, and the patrons, architects and designers that created it.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 429/3.0 Topics in 19th-century Visual and Material Culture

A detailed study of one area or topic in the history of 19th-century visual culture.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 433/3.0 Art, Tourism and Modernity

An examination of the relationship of art and tourism. Topics 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; the ways in which art in a tourism economy participates in the politics of identity and representation.

LEARNING HOURS 120 (36S;12G;12I;60P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 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.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 435/3.0 Art History Theory and Methods

This course examines a range of theoretical approaches used currently in art historical scholarship, including Marxism, gender theory, psychoanalysis, structuralism, poststructuralism, and postcolonialism.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 436/3.0 Anthropological Theory and Art History

This course will examine a range of anthropological theories and will assess their potential methodological roles in art historical analysis.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 438/3.0 Studies in Indigenous Arts and Visual Culture in North America

This seminar offers an in-depth study of a topic in North American Indigenous arts and visual culture, including theoretical and methodological readings.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 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.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 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).

LEARNING HOURS 126 (36S;90P)

RECOMMENDATION (ARTH 214/3.0 and ARTH 215/3.0) or ARTH 353/3.0 or ARTH 354/3.0 or ARTH 375/3.0.

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 451/3.0 Caravaggio and Artemisia

Explores Caravaggio, Artemisia Gentileschi and contemporaries in Baroque Italy. Considers issues such as naturalism/idealism, patronage, populist piety, gender. One of the goals is to look at the ways in which these artists' personalities have been projected onto their work by scholars, essayists, novelists, and filmmakers.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 460/3.0 Curatorial Studies

This seminar, held at the Agnes Etherington Art Centre, integrates historical, theoretical, and practical approaches to contemporary curatorial issues.

LEARNING HOURS 126 (18S;18Pc;90P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 472/3.0 Art and Global Encounter in Asia, the Americas and Africa, 1492-1850

An assessment of hybrid art focusing on the period of European evangelization of non-European civilizations, 15th-19th c., a global encounter involving the widest spectrum of peoples, races, cultures, and religions. Will consider the transformation of the arts of Early Modern Europe in contact situations in Asia, Africa, Latin America, and Quebec.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 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.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 485/3.0 A Social and Material History of Italian Renaissance Sculpture

The course will explore the diverse materials used for sculpture (marble, bronze, wood, clay, wax, etc.) and their social functions - - how sculptures were a part of cult practices, dressing sculptures, speaking statues, miraculous sculptures, iconoclasm, reliquaries, and domestic objects.

LEARNING HOURS 120 (36S;120;72P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 486/3.0 16th-Century Painting in Venice

An examination of selected topics in the painting of Venice and the Veneto.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 492/3.0 Studies in the Literature of Art

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.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 494/3.0 Topics in Baroque Art

A study of selected topics in the art of the 17th century.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ARTH 496/3.0 Studies in the History of Prints and Drawings

A detailed study in the history of prints and drawings.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in an ARTH Major or Medial Plan and a GPA of 1.9 and 24.0 units in ARTH.

ASTR 101/3.0 Astronomy I: The Solar System

A non-mathematical introduction to the science of astronomy for non-specialist students. Topics to be covered include the fundamentals of astronomy; and 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 online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;24O;60P)

EQUIVALENCY *PHYS P15/3.0.*

ASTR 102/3.0 Astronomy II: Stars, Galaxies, and the Universe

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;24O;60P)

EQUIVALENCY *PHYS P16/3.0.*

PREREQUISITE ASTR 101/3.0 or *PHYS P15/3.0* or permission of the Department.

BCHM 218/3.0 Molecular Biology

Molecules and macromolecules that participate in the replication and expression of genes. Current methods for exploring the structure, function, and manipulation of genetic material.

NOTE Also offered online. Consult the Bachelor of Health Sciences program office. Learning Hours may vary.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE Level 2 or above and [(BIOL 102/3.0 and CHEM 112/6.0) or (CHEM 114/3.0 and PHGY 170/3.0)].

BCHM 270/3.0 Biochemical Basis of Health and Disease

This course will introduce general biochemical concepts that will allow for an understanding of the biological and chemical principles underlying human physiology, health and disease. The course will provide self-paced learning and utilize evidence-based teaching principles, small group learning, peer-learning and guided-independent learning methodologies to provide an inclusive learning environment. Students will gain an enhanced appreciation of general applications of biochemistry as applied in day to day healthy life and during the disease states, diagnosis and clinical management of metabolic disorders.

NOTE Only offered online. Consult the Bachelor of Health Sciences program office.

NOTE This introductory biochemistry online course is intended for prospective students in Nursing, Environmental Sciences, Engineering, Commerce, and general science programs.

NOTE May not be taken for credit towards the Plan requirements of the BCHM or LISC Specialization or Major Plans.

LEARNING HOURS 126 (66O;60P)

PREREQUISITE Level 2 or above and [(4U Biology and PHGY 170/3.0) or (BIOL 102/3.0 and BIOL 103/3.0)] or permission of the Department.

EXCLUSION No more than 3.0 units from BCHM 102/3.0; BCHM 270/3.0.

ONE-WAY EXCLUSION May not be taken with or after BCHM 310/9.0; BCHM 315/3.0.

BCHM 310/9.0 General Biochemistry

Principles of protein biochemistry, enzymology, and protein engineering. Metabolism of carbohydrates, amino acids and lipids. Role of coenzymes. Generation and storage of metabolic energy. Principles of regulatory mechanisms, membrane structure and function, hormone action, and cellular signalling.

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.

LEARNING HOURS 348 (72L;36Lb;240P)

PREREQUISITE Level 3 or above and BCHM 218/3.0 and [(CHEM 222/3.0 and CHEM 223/3.0) or CHEM 282/3.0].

EXCLUSION No more than 1 course from BCHM 310/9.0; BCHM 102/3.0.

EXCLUSION No more than 1 course from BCHM 310/9.0; BCHM 315/3.0.

EXCLUSION No more than 1 course from BCHM 310/9.0; BCHM 316/3.0.

BCHM 313/3.0 Physical Biochemistry

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.

NOTE If you have taken or are currently registered in BCHM 310/9.0 you may contact the department for permission to enroll.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above and BCHM 315/3.0.

BCHM 315/3.0 Proteins and Enzymes

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.

LEARNING HOURS 120 (36L;12O;72P)

PREREQUISITE Level 3 or above and BCHM 218/3.0 and [(CHEM 222/3.0 and CHEM 223/3.0) or CHEM 282/3.0].

EXCLUSION No more than 3.0 units from BCHM 102/3.0; BCHM 315/3.0.

EXCLUSION No more than 1 course from BCHM 310/9.0; BCHM 315/3.0.

BCHM 316/3.0 Metabolism

Metabolism of carbohydrates, amino acids and lipids. Role of coenzymes. Generation and storage of metabolic energy. Principles of regulatory mechanisms, membrane structure and function, hormone action, and cellular signalling.

LEARNING HOURS 122 (36L;80;78P)

PREREQUISITE 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 310/9.0; BCHM 316/3.0.

BCHM 317/6.0 Introductory Biochemistry Laboratory

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.

LEARNING HOURS 360 (96Lb;264P)

PREREQUISITE Registration in a BCHM Specialization or Major Plan.

COREQUISITE BCHM 315/3.0 and BCHM 316/3.0.

EXCLUSION No more than 6.0 units from BCHM 317/6.0; BCHM 319/3.0.

EQUIVALENCY BCHM 319/3.0.

BCHM 319/3.0 Intro Biochemistry Laboratory

Application of separation and assay techniques to the study of proteins, metabolism and molecular biology.

NOTE This course is for outgoing Biochemistry Honours exchange students who are not able to obtain the equivalent of BCHM 317/6.0 when on exchange.

LEARNING HOURS 180 (48Lb;132P)

COREQUISITE BCHM 315/3.0 or BCHM 316/3.0.

EXCLUSION No more than 6.0 units from BCHM 317/6.0; BCHM 319/3.0.

EQUIVALENCY BCHM 317/6.0.

BCHM 410/3.0 Protein Structure and Function

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 BMED 810/3.0. Students in a LISC or BMCO Plan should contact the Department regarding prerequisites and permission to register.

LEARNING HOURS 114 (30L;6S;6Lb;6Pc;12G;6I;6O;42P)

PREREQUISITE Level 4 and registration in a BCHM Specialization or Major Plan and (a GPA of 2.5 in BCHM 218/3.0; BCHM 313/3.0; BCHM 315/3.0; BCHM 316/3.0; BCHM 317/6.0).

BCHM 411/3.0 Advanced Molecular Biology

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 Offered jointly with BMED 811/3.0. Students in a LISC or BMCO Plan should contact the Department regarding prerequisites and permission to register.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 4 and registration in a BCHM Specialization or Major Plan and (a GPA of 2.5 in BCHM 218/3.0; BCHM 313/3.0; BCHM 315/3.0; BCHM 316/3.0; BCHM 317/6.0).

BCHM 421/6.0 Advanced Biochemistry Laboratory I

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.

LEARNING HOURS 222 (6S;144Lb;24I;6O;42P)

PREREQUISITE Level 4 and registration in a BCHM Specialization Plan and (a GPA of 2.9 in BCHM 218/3.0; BCHM 313/3.0; BCHM 315/3.0; BCHM 316/3.0; BCHM 317/6.0).

BCHM 422/6.0 Advanced Biochemistry Laboratory II

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.

LEARNING HOURS 222 (6S;144Lb;24I;6O;42P)

PREREQUISITE Level 4 and registration in a BCHM Specialization Plan and (a GPA of 2.9 in BCHM 218/3.0; BCHM 313/3.0; BCHM 315/3.0; BCHM 316/3.0; BCHM 317/6.0).

BCHM 432/3.0 The Molecular Basis of Cellular Function

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 Offered jointly with BMED 832/3.0. Students in a LISC Plan should contact the Department regarding prerequisites and permission to register.

LEARNING HOURS 120 (30L;6G;84P)

PREREQUISITE Level 4 and registration in a BCHM Specialization or Major Plan and (a GPA of 2.5 in BCHM 218/3.0; BCHM 313/3.0; BCHM 315/3.0; BCHM 316/3.0; BCHM 317/6.0).

BCHM 441/3.0 Current Topics in Biochemistry

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 499/12.0, CANC 499/12.0, EPID 499/12.0, LISC 499/12.0, MICR 455/6.0, MICR 499/12.0, NSCI 499/12.0, PATH 499/12.0, PHAR 499/12.0 or PHGY 499/12.0 will not be allowed to register in BCHM 441/3.0.

LEARNING HOURS 120 (21L;9S;3G;3Oc;84P)

PREREQUISITE Level 4 and registration in a BCHM Major Plan and (a GPA of 2.5 in BCHM 218/3.0; BCHM 313/3.0; BCHM 315/3.0; BCHM 316/3.0; BCHM 317/6.0).

BCHM 442/3.0 Seminars in Biochemistry

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.

LEARNING HOURS 120 (12S;12T;12G;84P)

PREREQUISITE Level 4 and registration in a BCHM Specialization Plan and (a GPA of 2.7 in BCHM 218/3.0; BCHM 313/3.0; BCHM 315/3.0; BCHM 316/3.0; BCHM 317/6.0).

BCHM 482/3.0 Proteomics and Metabolomics

This course will focus on the principles of proteomics and metabolomics and their application in the new systems biology 'omics' approach to scientific discovery. This course will emphasize both the methodologies used in proteomics and metabolomics, as well as their applications in both research, medical diagnostics, and disease management.

NOTE Only offered online. Consult the Bachelor of Health Sciences program office.

LEARNING HOURS 114 (36O;78P)

PREREQUISITE {Level 4 and [BCHM 310/9.0 or (BCHM 315/3.0 and BCHM 316/3.0)]} or (Level 4 and registration in a Bachelor or Health Sciences program and BCHM 218/3.0 and BCHM 270/3.0 and BMED 370/3.0).

BIOL 102/3.0 Introductory Biology of Cells

An introduction to the basic themes and concepts of modern biology spanning organizational levels from molecules to cells in an evolutionary context.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Study Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 111 (24L;6Lb;9G;12O;60P)

RECOMMENDATION 4U Biology and Chemistry, or equivalent high school background, are highly recommended.

BIOL 103/3.0 Introductory Biology of Organisms

An introduction to the basic themes and concepts of modern biology spanning organizational levels from organisms to ecosystems in an evolutionary context.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Study Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 123 (36L;24Lb;24O;39P)

RECOMMENDATION BIOL 102/3.0.

BIOL 110/3.0 Human Genetics and Evolution

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 118 (26L;10T;10G;36O;36P)

ONE-WAY EXCLUSION May not be taken with or after BIOL 102/3.0; BIOL 103/3.0.

BIOL 111/3.0 Ecology and the Environment

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 108 (36L;72P)

ONE-WAY EXCLUSION May not be taken with or after BIOL 300/3.0; *BIOL 302/3.0*; *BIOL 303/3.0*.

BIOL 201/3.0 Diversity of Life I

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.

LEARNING HOURS 117 (36L;33Lb;48P)

BIOL 202/3.0 Diversity of Life II

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.

LEARNING HOURS 117 (36L;33Lb;48P)

BIOL 205/3.0 Mendelian and Molecular Genetics

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.

LEARNING HOURS 120 (36L;18Lb;18T;12O;36P)

PREREQUISITE A GPA of 1.90 in BIOL 102/3.0 and BIOL 103/3.0.

BIOL 206/3.0 Evolutionary Genetics

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.

NOTE Priority to BIOL concentrators will be given during course selection.

LEARNING HOURS 120 (36L;36Lb;12O;36P)

RECOMMENDATION BIOL 201/3.0 and BIOL 202/3.0.

PREREQUISITE BIOL 205/3.0.

BIOL 243/3.0 Introduction to Statistics

An introduction to the analysis of data from real life situations. Covers study design, descriptive and inferential statistics. Topics include probability, t-tests, regression, Chi-square tests, analysis of variance. Emphasis is in the foundation of statistical inference and practical application of statistical methods using statistical software.

LEARNING HOURS 120 (36L;12T;72P)

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 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.

BIOL 300/3.0 Ecology

Covers the major concepts at the scales of individual life history, population, communication and ecosystem. This includes life history strategies, population regulation, species interactions, community structure, elemental cycles and energy flow. Includes field and lab activities with collection, analysis and interpretation of ecological data.

NOTE Field trip: estimated cost \$85.

LEARNING HOURS 118 (36L;21Lb;12O;16Oc;33P)

EQUIVALENCY *BIOL 302/3.0* and/or *BIOL 303/3.0*.

PREREQUISITE BIOL 201/3.0 and BIOL 202/3.0 and BIOL 206/3.0.

COREQUISITE BIOL 243/3.0 or PSYC 202/3.0 or STAT 269/3.0.

EXCLUSION No more than 3.0 units from BIOL 300/3.0; *BIOL 302/3.0*.

EXCLUSION No more than 3.0 units from BIOL 300/3.0; *BIOL 303/3.0*.

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 are available in January.

PREREQUISITE BIOL 102/3.0 and BIOL 103/3.0 and (registration in a BIOL Major, BIOL Science Minor/General, BIMA Specialization, BIPS Specialization, BTEC Specialization, or EBIO Specialization Plan).

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 are available in January.

PREREQUISITE 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 315/3.0 Plants and Human Culture

Human civilization depends on plants. We have changed them and they have changed us. This course investigates the biology and evolution of valuable economic plants, the science of plant domestication and genetic manipulation, and how our interactions with plants have altered the economy, politics, and sociology of human civilization.

LEARNING HOURS 120 (36L;24O;60P)

PREREQUISITE BIOL 102/3.0 and BIOL 103/3.0 and BIOL 201/3.0.

BIOL 316/3.0 Fisheries Biology

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE BIOL 103/3.0 and BIOL 202/3.0.

BIOL 317/3.0 **Field Biology II**

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 are available in January.

PREREQUISITE BIOL 307/3.0. Prior to registering in the course students must complete the application process, be placed in a module and complete the field work.

BIOL 319/3.0 **Introduction to Ethnobotany**

Ethnobotany is the study of the relationships that exist between indigenous cultures and local flora. Case studies will be presented to examine the various categories of plant use, the importance of traditional knowledge to Western culture, and the role of plant conservation and cultural sustainability.

NOTE Only offered online. Consult Arts and Science Online.

RECOMMENDATION BIOL 201/3.0.

PREREQUISITE BIOL 102/3.0 and BIOL 103/3.0.

BIOL 321/3.0 **Animal Behaviour**

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 132 (36L;12T;12I;12O;24Oc;36P)

RECOMMENDATION BIOL 202/3.0.

COREQUISITE 6.0 units from BIOL 201/3.0; BIOL 202/3.0; BIOL 205/3.0; BIOL 206/3.0.

BIOL 322/3.0 **Environmental Physiology of Animals**

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.

LEARNING HOURS 120 (36L;24O;60P)

PREREQUISITE BIOL 339/3.0.

BIOL 323/3.0 **Vertebrate Diversity and Evolution**

Vertebrate biodiversity including characteristics and adaptations of the major classes of the living vertebrates; major environmental and geological changes associated with vertebrate evolution.

LEARNING HOURS 120 (36L;12Lb;72P)

PREREQUISITE BIOL 201/3.0 and BIOL 202/3.0 and BIOL 206/3.0.

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 are available in January.

PREREQUISITE 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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;12T;24O;48P)

PREREQUISITE BIOL 205/3.0 or BCHM 218/3.0.

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.

LEARNING HOURS 124 (36L;12T;40O;36P)

PREREQUISITE BIOL 205/3.0 or BCHM 218/3.0.

EXCLUSION No more than 3.0 units from BIOL 331/3.0 and BMED 370/3.0.

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.

LEARNING HOURS 108 (36L;12T;60P)

PREREQUISITE 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.

LEARNING HOURS 110.4 (36L;24O;50.4)

PREREQUISITE BIOL 103/3.0 and CHEM 112/6.0 and (BIOL 205/3.0 or BCHM 218/3.0).

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 \$35.

LEARNING HOURS 113 (36L;18Lb;8Oc;51P)

RECOMMENDATION BIOL 201/3.0 and BIOL 202/3.0 are recommended.

PREREQUISITE CHEM 112/6.0

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.

LEARNING HOURS 120 (36L;18O;66P)

PREREQUISITE BIOL 205/3.0 or BCHM 218/3.0.

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.

LEARNING HOURS 115 (36L;10G;15O;54P)

PREREQUISITE BIOL 205/3.0 or BCHM 218/3.0.

BIOL 343/3.0 Data Analysis for Biologists

Advanced topics in using R for data management, exploratory data analysis, data visualization, and statistical analysis using the general linear model, with particular focus on statistical literacy and biological examples from both laboratory and field research.

LEARNING HOURS 120 (36L;12T;12O;60P)

PREREQUISITE BIOL 243/3.0 or PSYC 202/3.0 or STAT 269/3.0.

BIOL 350/3.0 Evolution and Human Affairs

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;24O;60P)

PREREQUISITE Level 3 or above.

BIOL 360/3.0 Biotechnology and Society

The contributions and effects of biotechnology on humanity will be explored from the perspective of their impacts on society including moral and ethical issues. Biotechnological contributions to society to be explored will include those in medicine, industry, and agriculture.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE BIOL 205/3.0 or BCHM 218/3.0.

EXCLUSION No more than 3.0 units from BIOL 360; BIOL 507/3.0.

BIOL 369/3.0 Sex and Evolution

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.

LEARNING HOURS 122 (36L;8T;180;60P)

RECOMMENDATION BIOL 206/3.0.

PREREQUISITE BIOL 102/3.0 and BIOL 103/3.0 and (3.0 units from BIOL 201/3.0; BIOL 202/3.0; BIOL 205/3.0; BIOL 206/3.0).

Admission to 400- and 500-level Biology Courses

Admission to 400- and 500-level Biology courses requires a minimum GPA of 2.0 in any previously taken courses from the Biological Foundations List (BIOL_FNDS). Requests for special consideration must be submitted to the Chair of Undergraduate Studies.

BIOL_FNDS

BIOL 102/3.0; BIOL 103/3.0; BIOL 201/3.0; BIOL 202/3.0; BIOL 205/3.0; BIOL 206/3.0; BIOL 300/3.0; BIOL 330/3.0; BIOL 334/3.0; BIOL 339/3.0; BIOL 341/3.0; *BIOL 302/3.0; BIOL 303/3.0*

BIOL 401/3.0 Experimental Approaches to Animal Physiology

Laboratory-based course emphasizing experimental approaches to understanding the principles of animal physiology covered in BIOL 339/3.0.

LEARNING HOURS 108 (36Lb;12T;60P)

PREREQUISITE A minimum GPA of 2.0 in the [Biological Foundations List](#).

COREQUISITE BIOL 339/3.0.

BIOL 402/3.0 Experiments in Plant Physiology

Laboratory-based course emphasizing experimental approaches to understanding the principles of plant physiology covered in BIOL 341/3.0.

LEARNING HOURS 114 (36Lb;24T;60;48P)

PREREQUISITE A minimum GPA of 2.0 in the [Biological Foundations List](#).

COREQUISITE BIOL 341/3.0.

BIOL 403/3.0 Experimental Techniques in Biology

Self-directed and self-selected hands-on experimental techniques used in fundamental biology research, biotechnologies, and medical sciences.

LEARNING HOURS 120 (36Lb;12T;72Oc)

PREREQUISITE BIOL 205/3.0 and a minimum GPA of 2.0 in the [Biological Foundations List](#).

BIOL 404/3.0 Techniques in Molecular Biology

Intensive laboratory work (8h/day) to be carried out over two and a half weeks in May. Practical work includes DNA isolations, DNA cloning, PCR, production of proteins, biochemical and immunological analysis of proteins.

NOTE Priority to students registered in BIOL Major and Specialization degree Plans. See course website for details.

LEARNING HOURS 112.5 (100Lb;12.5P)

PREREQUISITE (BCHM 218/3.0 or BIOL 330/3.0) and a minimum GPA of 2.0 in the [Biological Foundations List](#).

BIOL 409/3.0 Bioremediation

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.

LEARNING HOURS 109.2 (36L;12T;6Oc;55.2P)

RECOMMENDATION BIOL 322/3.0 or BIOL 339/3.0 or BIOL 341/3.0.

PREREQUISITE BIOL 330/3.0 and a minimum GPA of 2.0 in the [Biological Foundations List](#).

BIOL 410/3.0 Ecology of Lakes and Streams

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.

LEARNING HOURS 120 (24L;12S;84P)

RECOMMENDATION BIOL 335/3.0.

PREREQUISITE (BIOL 300/3.0 or *BIOL 302/3.0* or *BIOL 303/3.0*) and a minimum GPA of 2.0 in the [Biological Foundations List](#).

BIOL 416/3.0 Terrestrial Ecosystems

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: estimated cost \$75.

LEARNING HOURS 124 (12L,24S;18Lb;12Pc;12G;12O;16Oc;18P)

PREREQUISITE (BIOL 300/3.0 or GPY 317/3.0 or *BIOL 302/3.0* or *BIOL 303/3.0*) and a minimum GPA of 2.0 in the [Biological Foundations List](#).

ONE-WAY EXCLUSION May not be taken with or after BIOL 510/3.0.

BIOL 418/3.0 Fisheries Techniques

This course will introduce students to many “hands-on” techniques currently used in fisheries. This will include fish identification, different capture techniques for fisheries assessment, bioacoustics, environmental monitoring, techniques for ageing fish, diet analysis, fish tracking (biotelemetry approaches), and data management.

LEARNING HOURS 120 (30Lb;10T;40G;40P)

PREREQUISITE BIOL 316/3.0.

BIOL 421/3.0 Conservation Genetics

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?

LEARNING HOURS 120 (36L;24T;60P)

PREREQUISITE BIOL 206/3.0 and (BIOL 243/3.0 or PSYC 202/3.0 or STAT 263/3.0 or STAT 269/3.0) and a minimum GPA of 2.0 in the [Biological Foundations List](#).

COREQUISITE BIOL 300/3.0 or *BIOL 302/3.0* or *BIOL 303/3.0*.

BIOL 422/3.0 Conservation Biology

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.

LEARNING HOURS 108 (36L;36T;36P)

PREREQUISITE (BIOL 300/3.0 or *BIOL 302/3.0* or *BIOL 303/3.0*) and a minimum GPA of 2.0 in the [Biological Foundations List](#).

BIOL 423/3.0 Modern Insect Science

An exploration into the world of insects, one of the most abundantly successful group of organisms on the earth.

LEARNING HOURS 120 (12L;36T;72P)

RECOMMENDATION BIOL 330/3.0 or BCHM 218/3.0.

ONE-WAY EXCLUSION May not be taken with or after BIOL 507/3.0.

PREREQUISITE BIOL 205/3.0 and a minimum GPA of 2.0 in the [Biological Foundations List](#).

BIOL 430/3.0 Molecular Genetics of Development

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.

LEARNING HOURS 126 (36L;18S;24G;12I;12O;24P)

PREREQUISITE (BCHM 218/3.0 or BIOL 330/3.0) and a minimum GPA of 2.0 in the [Biological Foundations List](#).

BIOL 431/3.0 Cellular Basis of Adaptation

The cellular origins of diversity in physiological processes, with consideration of the role of evolutionary, developmental and molecular mechanisms.

LEARNING HOURS 108 (6L;30S;8T;4G;60P)

PREREQUISITE (BIOL 330/3.0 or BCHM 218/3.0) and (one of BIOL 301/3.0; BIOL 334/3.0; BIOL 338/3.0; BIOL 339/3.0; BIOL 341/3.0) and a minimum GPA of 2.0 in the [Biological Foundations List](#).

BIOL 432/3.0 Computation and Big Data in Biology

Application of basic coding and analytical methods to obtain, organize, analyze, visualize, and interpret information from large, complex datasets (i.e. 'Big Data') in biology. Datasets may include climate/weather records, 'omics' data, specimen collections, long-term observational studies, journal articles, and other historical and online sources.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE A minimum GPA of 2.0 in the [Biological Foundations List](#).

COREQUISITE BIOL 331/3.0.

BIOL 433/3.0 History and Philosophy of Biology

An examination of the foundations of evolution, classification and other selected topics from historical, philosophical and scientific perspectives.

LEARNING HOURS 120 (36L;24T;60P)

PREREQUISITE (BIOL 300/3.0 or *BIOL 302/3.0* or *BIOL 303/3.0*) and a minimum GPA of 2.0 in the [Biological Foundations List](#).

BIOL 439/3.0 Natural Selection and Microevolution

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.

LEARNING HOURS 120 (36L;6S;18Lb;60P)

PREREQUISITE (BIOL 300/3.0 or *BIOL 302/3.0* or *BIOL 303/3.0*) and a minimum GPA of 2.0 in the [Biological Foundations List](#).

BIOL 440/3.0 Speciation and Macroevolution

An exploration of higher-level processes in evolution spanning considerations of mechanisms of speciation, extinction, adaptive radiation, and phylogenetics.

LEARNING HOURS 120 (24L;24T;60G;12O)

PREREQUISITE (BIOL 300/3.0 or *BIOL 302/3.0* or *BIOL 303/3.0*) and a minimum GPA of 2.0 in the [Biological Foundations List](#).

BIOL 441/3.0 Molecular Genetics

Research in eukaryotic molecular genetics with an emphasis on epigenetics. Epigenetic phenomena will be examined in a range of models from single-celled organisms to metazoans, with student discussions on topics as diverse as bioethics, disease controls, and eugenics.

LEARNING HOURS 125 (30L;8S;12Lb;10G;65P)

PREREQUISITE (BCHM 218/3.0 or BIOL 330/3.0) and a minimum GPA of 2.0 in the [Biological Foundations List](#).

EXCLUSION No more than 3.0 credits from BIOL 441/3.0; PATH 425/3.0.

BIOL 442/3.0 Evolutionary Medicine

An exploration of human disease, illness, and injury, and the symptoms and treatments of medical conditions, with an evolutionary framework.

LEARNING HOURS 120 (24L;20T;10O;66P)

PREREQUISITE BIOL 206/3.0 and a minimum GPA of 2.0 in the [Biological Foundations List](#).

EQUIVALENCY *BIOL 522/3.0*.

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.

LEARNING HOURS 126 (36L;18T;24O;48P)

PREREQUISITE [BIOL 339/3.0 or (PHGY 215/3.0 and PHGY 216/3.0) or *PHGY 214/6.0*] and a minimum GPA of 2.0 in the [Biological Foundations List](#).

Advanced Honours Seminars (BIOL 501 – 536)

Biology offers a series of advanced 3.0 unit seminars with emphases on reading primary literature, writing, presentation skills and experimental enquiry. Small class sizes and extensive interaction with faculty help promote an independent, discovery-based learning experience. Topics and course numberings for seminar offerings vary from year to year and are listed each spring for third-year students to consider. 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.

BIOL 501/3.0 Recent Research in Molecular Biology

LEARNING HOURS 120 (36S;84P)

RECOMMENDATION BIOL 430/3.0.

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List or permission of the Department.

BIOL 502/3.0 Plant Cellular Responses to Environmental Stress

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List and (BIOL 330/3.0 or BIOL 334/3.0 or BIOL 341/3.0 or BIOL 430/3.0) or permission of the Department.

BIOL 503/3.0 Plant Biotechnology

LEARNING HOURS 120 (15L;9S;24G;72P)

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List and [(BIOL 205/3.0 or BCHM 218/3.0) and BIOL 341/3.0] or permission of the Department.

BIOL 506/3.0 Biochemical Adaptations to Life Under Extreme Conditions

LEARNING HOURS 120 (36S;84P)

RECOMMENDATION BIOL 341/3.0 and BIOL 322/3.0.

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List and [BIOL 334/3.0 or (BCHM 315/3.0 and BCHM 316/3.0) or BCHM 310/6.0] or permission of the Department.

BIOL 507/3.0 Biotechnology

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List or permission of the Department.

EXCLUSION No more than 3.0 units from BIOL 360/3.0; BIOL 507/3.0.

ONE-WAY EXCLUSION May not be taken with or after BIOL 441/3.0.

BIOL 508/3.0 Biology of the Cell Cycle

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List and (BIOL 330/3.0 or BCHM 218/3.0) or permission of the Department.

BIOL 509/3.0 **Limnological Environmental Studies**

LEARNING HOURS 120 (9L;9S;18G;84P)

RECOMMENDATION BIOL 335/3.0.

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List or permission of the Department.

BIOL 510/3.0 **Biogeochemistry and Global Change**

LEARNING HOURS 120 (36S;12T;12G;36I;12O;12P)

RECOMMENDATION BIOL 300/3.0 or (*BIOL 302/3.0* and *BIOL 303/3.0*).

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List or permission of the Department.

BIOL 515/3.0 **Aquaculture**

LEARNING HOURS 120 (9L;9S;18G;84P)

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List or permission of the Department.

BIOL 527/3.0 **Paleolimnology and Global Environmental Change**

LEARNING HOURS 132 (21L;15S;96P)

RECOMMENDATION BIOL 335/3.0.

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List or permission of the Department.

BIOL 530/3.0 **Origins of Biodiversity**

LEARNING HOURS 120 (9L;9S;18G;84P)

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List or permission of the Department.

BIOL 532/3.0 **Selected Topics in Biology I**

LEARNING HOURS 120 (9L;9S;18G;84P)

PREREQUISITE To be announced.

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List or permission of the Department.

BIOL 533/3.0 **Selected Topics in Biology II**

LEARNING HOURS 120 (9L;9S;18G;84P)

PREREQUISITE To be announced.

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List or permission of the Department.

BIOL 534/3.0 **Selected Topics in Biology III**

LEARNING HOURS 120 (9L;9S;18G;84P)

PREREQUISITE To be announced.

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List or permission of the Department.

BIOL 535/3.0 **Selected Topics in Biology IV**

LEARNING HOURS 120 (9L;9S;18G;84P)

PREREQUISITE To be announced.

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List or permission of the Department.

BIOL 536/3.0 **Selected Topics in Biology V**

LEARNING HOURS 120 (9L;9S;18G;84P)

PREREQUISITE To be announced.

PREREQUISITE Level 4 and registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, BTEC-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List or permission of the Department.

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.

LEARNING HOURS 444 (8L;36S;300Pc;1000)

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 a minimum GPA of 2.0 in the Biological Foundations List and permission of the project supervisor and course coordinator.

EXCLUSION No more than 1 course from BIOL 537/12.0 and BIOL 541/12.0.

BIOL 538/3.0 Research Mentorship in Biology I

Research practicum under the supervision of a Biology faculty member. The course will involve a combination of research in the host laboratory, attendance of BIOL 537/12.0 or other seminars in the Department, and literature research to present as a major paper and seminar.

NOTE Students will normally be enrolled in the fourth year of their Program, having completed the third year core requirements of their Plan.

LEARNING HOURS 128 (8S;12T;60Pc;48P)

PREREQUISITE Registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List and permission of the Department.

ONE-WAY EXCLUSION Not to be taken concurrently with BIOL 537/12.0.

BIOL 539/3.0 Research Mentorship in Biology II

Research practicum under the supervision of a Biology faculty member. The course will involve a combination of research in the host laboratory, attendance of BIOL 537/12.0 or other seminars in the Department, and literature research to present as a major paper and seminar.

NOTE Students will normally be enrolled in the fourth year of their Program, having completed the third year core requirements of their Plan.

LEARNING HOURS 128 (8S;12T;60Pc;48P)

PREREQUISITE Registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List and permission of the Department.

COREQUISITE BIOL 538/3.0.

ONE-WAY EXCLUSION Not to be taken concurrently with BIOL 537/12.0.

BIOL 540/6.0 Research Mentorship in Biology

Research practicum under the supervision of a Biology faculty member. The course will involve a combination of research in the host laboratory, attendance of BIOL 537 or other seminars in the Department, and literature research to present as a major paper and seminar.

NOTE Students will normally be enrolled in the fourth year of their Program, having completed the third year core requirements of their Plan.

LEARNING HOURS 248 (8S;24T;120Pc;96P)

PREREQUISITE Registration in a Biology Honours Plan (BIOL-M-BSH, BIOL-P-BSH, BIMA-P-BSH, BIPS-P-BSH, EBIO-P-BSH) and a minimum GPA of 2.0 in the Biological Foundations List and permission of the Department.

ONE-WAY EXCLUSION Not to be taken concurrently with BIOL 537/12.0.

BIOL 541/12.0 Research in Biotechnology

Individual research projects under the supervision of a staff member; reported in the form of a thesis, poster, and seminar.

NOTE Students must select projects in consultation with potential supervisors a minimum of one full term in advance of starting the course.

LEARNING HOURS 446 (8L;18S;360Pc;60P)

PREREQUISITE Admission to the final year of the BTEC program in Biology and a minimum GPA of 2.0 in the Biological Foundations List and permission of the project supervisor and course coordinator.

EXCLUSION No more than 1 course from BIOL 537/12.0 and BIOL 541/12.0.

BIOM 300/3.0**Modeling Techniques in Biology**

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.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION MATH 110/6.0 or MATH 111/6.0.

PREREQUISITE MATH 120/6.0 or MATH 121/6.0 or MATH 124/3.0.

BISC 100/3.0 **Thinking Locally**

This introductory course provides first-year students with a selection of key skills and theories from across a number of disciplines (Film and Media, Geography, History, Sociology) that will allow them to engage with their further studies and their role in a globalised environment with confidence, intelligence and ambition.

NOTE This is a mandatory course for students in the First-Year Program at the Bader International Study Centre, and is only available to First-Year Program students.

LEARNING HOURS 152.4 (14.4L;12S;6Pc;6G;42Oc;72P)

EXCLUSION No more than 3.0 units from BISC 100/3.0; FILM 106/3.0.

EXCLUSION No more than 3.0 units from BISC 100/3.0; GPY 101/3.0.

BISC 101/3.0 **Acting Globally**

This is an introductory course, complementing and extending BISC 100, focused on skills and approaches from a number of disciplines (Film and Media, Geography, History, Sociology). Academic skills will be honed by centring on centrifugal forces of mobility, exchange and action. Processes such as warring, colonising, trading, connecting and leading are highlighted.

NOTE This is a mandatory course for students in the First-Year Program at the Bader International Study Centre.

LEARNING HOURS 152.4 (14.4L;12S;6Pc;6G;42Oc;72P)

PREREQUISITE BISC 100/3.0.

CANC 440/3.0 Cancer Biology and Therapeutics

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.

PREREQUISITE Level 4 and registration in a LISC or BCHM Major or Specialization Plan and a GPA of 2.5.

CANC 499/12.0 Research Project in Cancer Biology and Genetics

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 Acceptance by a supervisor required prior to registration.

NOTE Students whose research requires the care and/or handling of animals must also complete the Introductory Animal Care Course and if required the appropriate Animal Use workshops through the Office of the University Veterinarian.

LEARNING HOURS 480 (288Lb;24G;24I;144P)

PREREQUISITE Level 4 and registration in a LISC Specialization Plan (CANC Sub-Plan) and a GPA of 2.50.

EXCLUSION No more than 12.0 units from ANAT 499/12.0; CANC 499/12.0; EPID 499/12.0; LISC 499/12.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHAR 499/12.0; PHGY 499/12.0, *MICR 455/6.0*.

CHEM 112/6.0 General Chemistry

A survey of modern chemistry: structure and bonding, phases of matter, thermodynamics, acids, bases, electrochemistry, equilibria, kinetics and organic chemistry. Using information technology, labs, and problem-solving strategies, students will develop an appreciation for the relevance of chemistry to the solution of modern-day societal challenges.

NOTE Also offered at the Bader International Study Centre, Herstmonceux. Learning Hours may vary.

NOTE Lab coat estimated cost \$27; goggles estimated cost \$17; blue lab book estimated cost \$9.

LEARNING HOURS 288 (72L;36Lb;36G;48O;96P)

RECOMMENDATION 4U Chemistry or equivalent.

EXCLUSION No more than 6.0 units from CHEM 112/6.0 or (CHEM 113/3.0 and CHEM 114/3.0).

CHEM 113/3.0 General Chemistry I: From Atoms to Matter

A quantitative treatment of chemical phenomena and materials. Critical thinking and problem solving are emphasized. Topics include atomic structure and molecular bonding, organic chemistry, and condensed phases.

NOTE Only offered online. Consult Arts and Science Online.

NOTE Not normally intended for on-campus degree plans and certificates.

NOTE Not appropriate for pre and upper level courses that have a laboratory component.

LEARNING HOURS 126 (54O;72P)

RECOMMENDATION 4U Chemistry.

EXCLUSION No more than 6.0 units from CHEM 112/6.0 or (CHEM 113/3.0 and CHEM 114/3.0).

CHEM 114/3.0 General Chemistry II: Thermodynamics and Kinetics

A quantitative treatment of chemical phenomena and materials. Critical thinking and problem solving are emphasized. Topics include atomic thermodynamics, chemical equilibria, acids and bases, kinetics, electrochemistry.

NOTE Only offered online. Consult Arts and Science Online.

NOTE Not normally intended for on-campus degree plans and certificates.

NOTE Not appropriate for pre and upper level courses that have a laboratory component.

LEARNING HOURS 126 (54O;72P)

PREREQUISITE CHEM 113/3.0.

EXCLUSION No more than 6.0 units from CHEM 112/6.0 or (CHEM 113/3.0 and CHEM 114/3.0).

CHEM 211/3.0 Main Group Chemistry

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 Lab coat estimated cost \$27; goggles estimated cost \$17; blue lab book estimated cost \$9.

LEARNING HOURS 144 (36L;36Lb;72P)

PREREQUISITE CHEM 112/6.0

CHEM 212/3.0 Principles of Chemical Reactivity

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 Lab coat estimated cost \$27; goggles estimated cost \$17; blue lab book estimated cost \$9.

LEARNING HOURS 126 (36L;18Lb;72P)

PREREQUISITE CHEM 112/6.0 and (MATH 120/6.0 or MATH 121/6.0 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

Introduction to analytical chemical methods and science. Topics include statistical analysis of data, titrations and equilibrium theory, spectrophotometry and instrumental elemental analysis.

NOTE Lab coat estimated cost \$27; goggles estimated cost \$17; blue lab book estimated cost \$9.

LEARNING HOURS 144 (36L;36Lb;72P)

PREREQUISITE CHEM 112/6.0

CHEM 221/3.0 Materials, Solutions and Interfaces

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 Lab coat estimated cost \$27; goggles estimated cost \$17; carbon lab book estimated cost \$18.

LEARNING HOURS 126 (36L;18Lb;18T;54P)

PREREQUISITE CHEM 112/6.0 and (MATH 120/6.0 or MATH 121/6.0 or [MATH 123/3.0 and MATH 124/3.0]).

CHEM 222/3.0 Methods of Structure Determination

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.

LEARNING HOURS 126 (36L;18T;72P)

PREREQUISITE CHEM 211/3.0 or CHEM 212/3.0 or CHEM 281/3.0.

CHEM 223/3.0 Organic Reactions

Mechanistically oriented study of organic reactions with emphasis on applications to synthesis. The laboratory affords experience in organic synthesis.

NOTE Lab coat estimated cost \$27; goggles estimated cost \$17; carbon lab book estimated cost \$18.

LEARNING HOURS 144 (36L;36Lb;72P)

PREREQUISITE 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 285/3.0.

CHEM 281/3.0 General Organic Chemistry I

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 online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Molecular model set.

LEARNING HOURS 108 (36L;24O;48P)

PREREQUISITE CHEM 112/6.0 or CHEM 114/3.0.

EXCLUSION No more than 3.0 units from CHEM 212/3.0; CHEM 281/3.0.

CHEM 282/3.0 General Organic Chemistry II

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 Lab coat estimated cost \$27; goggles estimated cost \$17; carbon lab book estimated cost \$18.

LEARNING HOURS 141 (36L;33Lb;12O;60P)

PREREQUISITE CHEM 112/6.0 and CHEM 281/3.0.

EXCLUSION No more than 3.0 units from CHEM 223/3.0; CHEM 282/3.0; CHEM 285/3.0.

CHEM 285/3.0 General Organic Chemistry II (with Virtual Laboratory)

A continuation from CHEM 281/3.0 intended for students in biological sciences, and other plans taking no further courses in organic chemistry. Students in chemistry or biochemistry plans 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 virtual laboratory provides knowledge of elementary organic syntheses.

NOTE Only offered online. Consult Arts and Science Online.

NOTE Life Sciences Honours students should not enroll in this course.

LEARNING HOURS 99 (60O;39P)

PREREQUISITE CHEM 281/3.0.

EXCLUSION No more than 3.0 units from CHEM 223/3.0; CHEM 282/3.0; CHEM 285/3.0.

CHEM 311/3.0 Mechanistic Organic Chemistry

Fundamental mechanistic concepts of organic reactions, structure-activity relationships, solvent effects and catalysis.

Mechanistic aspects of substitution, addition, elimination and pericyclic reactions.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE CHEM 223/3.0.

CHEM 312/3.0 Transition Metal Chemistry

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.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE CHEM 211/3.0.

CHEM 313/3.0 Quantum Mechanics

Elementary principles and applications of wave mechanics with special reference to molecular orbitals and chemical bonding.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE (CHEM 211/3.0 or CHEM 222/3.0) 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 123/3.0 and MATH 124/3.0]) and (PHYS 104/6.0 or PHYS 106/6.0 or PHYS 117/6.0).

ONE-WAY EXCLUSION May not be taken with or after PHYS 344/3.0.

EQUIVALENCY CHEM 346/3.0.

CHEM 321/3.0 Instrumental Chemical Analysis

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.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE CHEM 213/3.0.

EXCLUSION No more than 3.0 units from CHEM 321/3.0; ENSC 471/3.0.

CHEM 322/3.0 The Chemical Bond: Computation and Spectroscopy

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.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE CHEM 313/3.0 or CHEM 346/3.0 or PHYS 344/3.0.

CHEM 323/3.0 Biological Chemistry

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.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE CHEM 311/3.0.

CHEM 326/3.0 Environmental and Green Chemistry

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.

LEARNING HOURS 108 (33L;3G;72P)

PREREQUISITE (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

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.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE CHEM 221/3.0.

CHEM 397/6.0 Experimental Chemistry

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 Lab coat estimated cost \$27; goggles estimated cost \$17; carbon lab book estimated cost \$18.

LEARNING HOURS 300 (144Lb;12T:144P)

PREREQUISITE 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

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.

LEARNING HOURS 156 (72Lb;12T:72P)

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

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.

LEARNING HOURS 156 (72Lb;12T;72P)

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

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.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE CHEM 321/3.0 or ENSC 471/3.0.

CHEM 412/3.0 Statistical Mechanics

The fundamentals of statistical mechanics with applications to thermodynamic properties of gases, liquids and solids and to chemical equilibrium in dilute gases.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE (CHEM 221/3.0 and CHEM 313/3.0) or (PHYS 345/3.0 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

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.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE CHEM 313/3.0 or CHEM 346/3.0 or PHYS 345/3.0.

CHEM 414/3.0 Catalysis

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.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE CHEM 312/3.0 and CHEM 223/3.0.

CHEM 415/3.0 Electrochemistry and Electrocatalysis

The course covers concepts of equilibrium electrochemistry and examines the structure of the electrode-solution interface. It discusses the basics of electron transfer and derives electrochemical kinetics equations. It shows examples of several electrochemical reactions and overviews experimental methods used to study electrochemical phenomena.

LEARNING HOURS 120 (36L;120;72P)

PREREQUISITE CHEM 212/3.0 and CHEM 221/3.0.

CHEM 421/3.0 Advanced Methods in Physical Chemistry

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.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE CHEM 313/3.0 or PHYS 345/3.0.

COREQUISITE CHEM 322/3.0.

CHEM 422/3.0 Synthetic Organic Chemistry

Modern synthetic methods in organic chemistry. Principles of strategy in planning organic syntheses based on simple classifications of reagents and reactions, and on the control of stereochemistry.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE CHEM 311/3.0.

CHEM 423/3.0 Topics in Inorganic and Organometallic Chemistry

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.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE CHEM 312/3.0.

CHEM 424/3.0 Polymer Chemistry

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.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE CHEM 223/3.

CHEM 425/3.0 Self-Assembly and Materials

Four topics covering a range of self-assembled molecular systems will be discussed: monolayers and bilayers, block copolymers, nanoparticles, and liquid crystals. Material properties, synthetic methods and application of these systems in current and emerging technologies, including nanotechnologies, will be covered.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE 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 in Chemistry. May be taken in the Summer Term with permission.

Additional restrictions may apply.

NOTE Lab coat estimated cost \$27; goggles estimated cost \$17.

LEARNING HOURS 240 (216Lb;24P)

PREREQUISITE CHEM 397/6.0.

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 in Chemistry. Additional restrictions may apply.

LEARNING HOURS 120 (108Lb;12P)

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 in Chemistry. Additional restrictions may apply.

LEARNING HOURS 120 (108Lb;12P)

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

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.

LEARNING HOURS 240 (72L;24T;144P)

PREREQUISITE Level 1 or (Level 2 or above and a GPA of 1.90).

CHIN 200/6.0 Introductory Mandarin Chinese II

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.

LEARNING HOURS 240 (72L;24T;144P)

PREREQUISITE CHIN 100/6.0 and permission of the Department of Languages, Literatures and Cultures.

CHIN 300/6.0 Intermediate Mandarin Chinese

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE CHIN 200/6.0 and permission of the Department of Languages, Literatures and Cultures.

CISC P81/3.0 Computers: Applications and Implications

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.

LEARNING HOURS 120 (36L;12G;72P)

CISC 101/3.0 Elements of Computing Science

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;24Lb;60P)

EXCLUSION No more than 3.0 units from APSC 142/3.0; APSC 143/3.0; CISC 101/3.0; CISC 110/3.0; CISC 151/3.0.

ONE-WAY EXCLUSION May not be taken with or after: CISC 121/3.0; CISC at the 200-level or above.

CISC 102/3.0 Discrete Mathematics for Computing I

Introduction to mathematical discourse and proof methods. Sets, functions, sequences, and relations. Properties of the integers. Induction. Equivalence relations. Linear and partial orderings.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

ONE-WAY EXCLUSION May not be taken with or after CISC 203/3.0.

CISC 110/3.0 Creative Computing

Introduction to fundamental programming concepts in the context of visual, interactive media. Students may develop applications in any domain (e.g., fine art, education, commerce, physical or social sciences) while learning about algorithms, program design, logic, program control flow, functions, testing, etc.

NOTE No computing or art background required.

NOTE Sufficient preparation for CISC 121/3.0. Students without programming experience should take CISC 110/3.0 (or CISC 101/3.0) before CISC 121/3.0. With permission of the instructor, students with programming experience may take this course concurrently with CISC 121/3.0.

LEARNING HOURS 120 (36L;84P)

EXCLUSION No more than 3.0 units from APSC 142/3.0; APSC 143/3.0; CISC 101/3.0; CISC 110/3.0; CISC 151/3.0.

ONE-WAY EXCLUSION May not be taken with or after CISC 121/3.0 or CISC at the 200-level or above.

CISC 121/3.0 Introduction to Computing Science I

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-magnitude complexity. Numerical computation. Documentation, testing and debugging.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

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 CISC 102/3.0 or MATH 110/6.0 or MATH 111/6.0 or MATH 112/3.0 or MATH 120/6.0 or MATH 121/6.0 or MATH 123/3.0 or MATH 124/3.0 or MATH 126/6.0 or APSC 171/3.0 or APSC 172/3.0 or APSC 174/3.0 or COMM 161/3.0 or COMM 162/3.0.

CISC 124/3.0 Introduction to Computing Science II

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.

LEARNING HOURS 120 (36L;24Lb;60P)

PREREQUISITE C- in CISC 121/3.0.

COREQUISITE CISC 102/3.0 or MATH 110/6.0 or MATH 111/6.0 or MATH 112/3.0 or MATH 120/6.0 or MATH 121/6.0 or MATH 123/3.0 or MATH 124/3.0 or MATH 126/6.0 or APSC 171/3.0 or APSC 172/3.0 or APSC 174/3.0 or COMM 161/3.0 or COMM 162/3.0.

CISC 151/3.0 Elements of Computing with Data Analytics

Introduction to algorithms: their definition, design, coding, and execution on computers, with applications drawn from data analytics, including simple prediction and clustering. Intended for students who have no programming experience. All or most assignment work will be completed during lab time.

LEARNING HOURS 120 (36L;36Lb;48P)

EXCLUSION No more than 3.0 units from APSC 142/3.0; APSC 143/3.0; CISC 101/3.0; CISC 110/3.0; CISC 151/3.0.

ONE-WAY EXCLUSION May not be taken with or after CISC 121/3.0; CISC; SOFT at the 200-level and above.

CISC 203/3.0 Discrete Mathematics for Computing II

Proof methods. Combinatorics: permutations and combinations, discrete probability, recurrence relations. Graphs and trees. Boolean and abstract algebra.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above and C- in [CISC 121/3.0 and (CISC 102/3.0 or MATH 110/6.0)].

CISC 204/3.0 Logic for Computing Science

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above and C- in [CISC 121/3.0 and (CISC 102/3.0 or MATH 110/6.0)].

CISC 220/3.0 System-Level Programming

Basic concepts of Unix-like systems. Shells and scripting. System-level programming in the C language. Software development tools and techniques.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above and C- in CISC 121/3.0.

COREQUISITE CISC 124/3.0.

CISC 221/3.0 Computer Architecture

The descriptive levels of computer architecture. Instruction-set architectures. Assembly Language. Data representation. Support for operating-system management and high-level languages. Input/output and interrupts. Designing for performance. Digital Logic.

LEARNING HOURS 120 (12L;24G;84P)

RECOMMENDATION CISC 220/3.0.

PREREQUISITE Level 2 or above and C- in CISC 124/3.0.

CISC 223/3.0 Software Specifications

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above and C- in CISC 124/3.0 and C- in (CISC 102/3.0 or MATH 110/6.0).

COREQUISITE CISC 204/3.0.

CISC 226/3.0 Game Design

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.

LEARNING HOURS 120 (36L;60G;24P)

PREREQUISITE Level 2 or above and C- in CISC 124/3.0.

CISC 235/3.0 Data Structures

Design and implementation of advanced data structures and related algorithms, including correctness and complexity analysis.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above and C- in (CISC 124/3.0 and CISC 203/3.0).

CISC 251/3.0**Data Analytics**

Introduction to data analytics; data preparation; assessing performance; prediction methods such as decision trees, random forests, support vector machines, neural networks and rules; ensemble methods such as bagging and boosting; clustering techniques such as expectation-maximization, matrix decompositions, and biclustering; attribute selection.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION APSC 142/3.0 or APSC 143/3.0 or CISC 101/3.0 or CISC 110/3.0 or CISC 121/3.0 or CISC 151/3.0 or previous programming experience.

EXCLUSION No more than 3.0 units from CISC 251/3.0; CISC 333/3.0.

CISC 260/3.0**Programming Paradigms**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above and C- in CISC 124/3.0 and C- in (CISC 102/3.0 or MATH 110/6.0).

COREQUISITE CISC 204/3.0.

CISC 271/3.0**Scientific Computing**

Introduction to scientific computing: algorithm design, error analysis, ill-conditioning. Linear equations. Least-squares fitting. Non-linear equations. Effective use of library programs, with discussion of their limitations and some aspects of their design and implementation.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above and C- in {[CISC 101/3.0 or CISC 121/3.0] 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 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 213/3.0; *PHYS 313/3.0*.

CISC 282/3.0**Fundamentals of Web Development**

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, user privacy, and using web technologies in mobile development.

LEARNING HOURS 120 (36L;48O;36P)

PREREQUISITE Level 2 and [(C- in CISC 101/3.0 or CISC 110/3.0 or CISC 121/3.0)] or permission of the Instructor.

EQUIVALENCY *CISC P82/3.0*.

CISC 320/3.0**Fundamentals of Software Development**

Introduction to management of small and medium-scale software projects. Advanced programming methodology using the programming language C++. Includes a significant programming project.

LEARNING HOURS 120 (36L;24T;24G;36P)

PREREQUISITE Registration in a School of Computing Plan and C- in (CISC 220/3.0 and CISC 235/3.0).

CISC 322/3.0**Software Architecture**

Abstractions and patterns of interactions and relationships among modules. Design recovery; relationship of architecture to requirements and testing.

LEARNING HOURS 120 (36L;24T;36G;24P)

PREREQUISITE Registration in a School of Computing Plan and C- in (CISC 203/3.0 and CISC 204/3.0 and CISC 223/3.0 and CISC 235/3.0).

EXCLUSION No more than 3.0 units from CISC 322/3.0 and CISC 326/3.0.

CISC 324/3.0**Operating Systems**

Layered operating systems for conventional shared memory computers: concurrent processes. Synchronization and communication. Concurrent algorithms. Scheduling. Deadlock. Memory management. Protection. File systems. Device management. Typical layers.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in (CISC 221/3.0 and CISC 235/3.0).

CISC 325/3.0 Human-Computer Interaction

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in (CISC 124/3.0 and CISC 235/3.0).

CISC 326/3.0 Game Architecture

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.

LEARNING HOURS 120 (36L;24T;60P)

RECOMMENDATION CISC 226/3.0

PREREQUISITE Registration in a School of Computing Plan and C- in (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

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).

LEARNING HOURS 120 (36L;84G)

PREREQUISITE Registration in a School of Computing Plan and C- in (CISC 220/3.0 and CISC 124/3.0).

CISC 330/3.0 Computer-Integrated Surgery

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in (CISC 121/3.0 and CISC 271/3.0).

EXCLUSION No more than 3.0 units from CISC 330/3.0; COMP 329/3.0; *COMP 230/3.0*.

EQUIVALENCY COMP 230/3.0.

CISC 332/3.0 Database Management Systems

Data models: relational, entity-relationship. Relational query languages: relational algebra and SQL. Relational database design. Application interfaces and embedded SQL. Storage and indexing.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in (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

Supervised and unsupervised learning, neural networks, support-vector machines, decision trees, metric based clustering, distribution-based clustering, rule-based techniques, genetic algorithms. Applications to information retrieval, web mining, customer-relationship management, recommender systems, science and engineering.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in [(CISC 121/3.0 and CISC 203/3.0) and (3.0 units from STAT or STAT_Options) and (3.0 units from MATH 110/6.0; MATH 111/6.0; MATH 112/3.0)].

CISC 340/3.0 Digital Systems

Combinational circuits; sequential circuits; digital systems design; micro-programming; bus structures; data communications; interface design; microprocessor systems.

LEARNING HOURS 120 (12L;24G;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in CISC 221/3.0.

CISC 351/3.0 Advanced Data Analytics

Design and implementation of complex analytics techniques; predictive algorithms at scale; deep learning; clustering at scale; advanced matrix decompositions, analytics in the Web, collaborative filtering; social network analysis; applications in specialized domains.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE [(C- in APSC 142/3.0 or APSC 143/3.0 or CISC 101/3.0 or CISC 110/3.0 or CISC 121/3.0 or CISC 151/3.0) or previous programming experience] and C- in CISC 251/3.0 and [C- in (3.0 units in STAT or 3.0 units from STAT_Options)].

CISC 352/3.0 Artificial Intelligence

An introduction to the basic principles and tools of artificial intelligence. Problem solving methods and knowledge representation techniques.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION CISC 260/3.0.

PREREQUISITE C- in CISC 235/3.0.

CISC 365/3.0 Algorithms I

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in (CISC 203/3.0 and CISC 204/3.0 and CISC 235/3.0).

CISC 422/3.0 Formal Methods in Software Engineering

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 4 and registration in a School of Computing Plan and C- in CISC 223/3.0.

CISC 423/3.0 Software Requirements

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in (CISC 322/3.0 or CISC 326/3.0).

COREQUISITE CISC 325/3.0.

CISC 425/3.0 Advanced User Interface Design

Advanced user-interface styles such as eye-tracking input, digital desks, wearable computing, ubiquitous and context-aware computing, and tangible interfaces.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and (C- in CISC 325/3.0) or permission of the School.

CISC 426/3.0 Real-Time Systems

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.

PREREQUISITE Registration in a School of Computing Plan and C- in (CISC 324/3.0 and CISC 327/3.0).

CISC 432/3.0 Advanced Data Management Systems

Storage and representation of "big data", which are large, complex, structured or unstructured data sets. Provenance, curation, integration, indexing and querying of data.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in (CISC 235/3.0 and CISC 332/3.0).

CISC 434/3.0 Distributed Systems

Distributed systems goals, characteristics, and architectures. Processes: models, inter-process communication and coordination. Name services. Consistency and replication. Fault tolerance: design for reliable communication and recovery. Security. Development paradigms based on data types: object, file, and web-based systems.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in CISC 324/3.0.

CISC 435/3.0 Computer Communications and Networks

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in CISC 324/3.0.

CISC 437/3.0 Performance Analysis

Analytic and empirical evaluation of the performance of software systems. Performance modeling. Experimental design and statistical techniques for empirical performance analysis.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in (CISC 324/3.0 and CISC 327/3.0).

CISC 451/3.0 Topics in Data Analytics

Content will vary from year to year; typical areas covered may include: tools for large scale data analytics (Hadoop, Spark), data analytics in the cloud, properties of large scale social networks, applications of data analytics in security.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE C- in (CISC 333/3.0 or CISC 351/3.0).

CISC 452/3.0 Neural and Genetic Computing

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in CISC 235/3.0.

EXCLUSION No more than 3.0 units from COGS 400/3.0; CISC 452/3.0.

CISC 453/3.0 Topics in Artificial Intelligence

Investigation of selected areas of artificial intelligence research. Possible topics include natural language understanding, computational perception, planning, learning, and neurocomputing.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in CISC 352/3.0.

CISC 454/3.0 Computer Graphics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above and registration in a School of Computing Plan and C- in [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

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in [(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 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

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.

LEARNING HOURS 120 (36L;36Lb;48G)

PREREQUISITE Registration in a School of Computing Plan and C- in (CISC 121/3.0 and CISC 221/3.0 and CISC 223/3.0).

CISC 462/3.0 Computability and Complexity

Turing machines and other models of computability such as μ -recursive functions and random-access machines. Undecidability. Recursive and recursively enumerable sets. Church-Turing thesis. Resource-bounded complexity. Complexity comparisons among computational models. Reductions. Complete problems for complexity classes.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION CISC 365/3.0.

PREREQUISITE Registration in a School of Computing Plan and C- in CISC 223/3.0.

CISC 465/3.0 Foundations of Programming Languages

Syntax and semantics. Classification of programming languages. The language of *while* programs. The typed lambda calculus. Recursive definitions and domain theory.

LEARNING HOURS 120 (18G;12I;90P)

PREREQUISITE Registration in a School of Computing Plan and C- in (CISC 204/3.0 and CISC 223/3.0 and CISC 260/3.0).

CISC 466/3.0 Algorithms II

A continuation of CISC 365/3.0. Lower bound theory. Average-case analysis of algorithms. Approximation algorithms. Probabilistic algorithms. Parallel algorithms.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in CISC 365/3.0.

CISC 467/3.0 Fuzzy Logic

History of fuzzy theory; fundamental concepts of fuzzy theory: sets, relations, and logic operators. Approximate reasoning, fuzzy inference, possibility theory. Separation from probability. Fuzzy control systems. Fuzzy pattern recognition. Advanced topics may include fuzzy expert systems, financial systems, graph theory, optimization.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 4 and registration in a BCMP or COCA Plan and C- in CISC 204/3.0.

CISC 471/3.0 Computational Biology

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in [CISC 271/3.0 and CISC 352/3.0 and CISC 365/3.0 and BCHM 218/3.0 and (BIOL 334/3.0 or BCHM 315/3.0)].

CISC 472/3.0 Medical Informatics

Current topics in the application of information technology to medical image computing and its use in image-guided medical interventions.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Registration in a School of Computing Plan and C- in CISC 330/3.0.

CISC 481/3.0 Syntax Systems for Natural Language

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Registration in a School of Computing Plan and permission of the School.

CISC 486/3.0 Game Development

An introduction to 'engines' used in networked 3-dimensional games. Topics include game-engine architecture and components providing 3-dimensional rendering, physics simulation, sound, artificial intelligence and networking services.

LEARNING HOURS 120 (36L;15G;69P)

PREREQUISITE Registration in a School of Computing Plan and C- in [CISC 226/3.0 and (CISC 322/3.0 or CISC 326/3.0) and CISC 324/3.0 and (MATH 110/6.0 or MATH 111/6.0 or MATH 112/3.0)].

CISC 490/3.0 Topics in Computing Science I

Content varies. Not offered every year.

NOTE Learning Hours will vary.

PREREQUISITE Registration in a School of Computing Plan and permission of the instructor.

CISC 491/3.0 Topics in Computing Science II

Content varies. Not offered every year.

NOTE Learning Hours will vary.

PREREQUISITE Registration in a School of Computing Plan and permission of the instructor.

CISC 492/3.0 Topics in Computing Science III

Content varies. Not offered every year.

NOTE Learning Hours will vary.

PREREQUISITE Registration in a School of Computing Plan and permission of the instructor.

CISC 496/3.0 Game Development Project

Team-based project involving the development of a game using modern tools and software engineering techniques.

LEARNING HOURS 129 (9L;120G)

PREREQUISITE Level 4 and registration in a School of Computing Plan and a GPA of 1.90 and C- in [CISC 226/3.0 and (CISC 326/3.0 or COCA 201/3.0)] or permission of the School of Computing.

CISC 497/3.0 Social, Ethical and Legal Issues in Computing

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a COMP Major or Specialization Plan and a GPA of 1.90 and a GPA of 2.60 in CISC; COCA; COGS; SOFT and 30.0 units of CISC; COCA; COGS; SOFT and C- in (CISC 352/3.0 or CISC 365/3.0).

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.

LEARNING HOURS 258 (18S;240G)

PREREQUISITE Level 4 and registration in a SODE Specialization Plan and a GPA of 1.90 and a GPA of 2.60 in CISC; COCA; COGS; SOFT and 30.0 units in CISC; COCA; COGS; SOFT and [C- in (CISC 322/3.0 or CISC 326/3.0) and (CISC 325/3.0 or CISC 327/3.0)].

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.

LEARNING HOURS 120 (120P)

PREREQUISITE Level 4 and registration in a COMP Major or BMCO or COMA or CSCI Specialization Plan and a GPA of 1.90 and a GPA of 2.60 in CISC; COCA; COGS; SOFT and 30.0 units in CISC; COCA; COGS; SOFT and C- in CISC 365/3.0.

EXCLUSION No more than 6.0 units from CISC 498/6.0; CISC 499/3.0.

EXCLUSION No more than one course from (CISC 499/3.0; COGS 499/3.0; CISC 500/6.0).

CISC 500/6.0**Undergraduate Thesis**

Individual research project under the supervision of a School of Computing faculty member. Evaluation is based on an oral presentation and a written thesis. It is the responsibility of the student to make a research proposal and secure a supervisor prior to enrolling in the course.

LEARNING HOURS 240 (24I;216P)

PREREQUISITE Permission of the Department. Minimum cumulative GPA of 3.5 and Level 4 and registration in a COMP Major or BMCO, COGS, COMA, CSCI, or SODE specialization plan.

EXCLUSION No more than one course from (CISC 499/3.0; COGS 499/3.0; CISC 500/6.0).

CLST 100/6.0 Introduction to Classical Literature

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.

LEARNING HOURS 252 (72L;180P)

CLST 102/3.0 Introduction to Greek Civilization

An introduction to major themes in the development of Greek 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.

LEARNING HOURS 126 (36L;90P)

EXCLUSION No more than 6.0 units from CLST 102/3.0; CLST 103/3.0; *CLST 101/6.0*.

CLST 103/3.0 Introduction to Roman Civilization

An introduction to major themes in the development of 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.

LEARNING HOURS 126 (36L;90P)

EXCLUSION No more than 6.0 units from CLST 102/3.0; CLST 103/3.0; *CLST 101/6.0*.

CLST 129/6.0 Introduction to Archaeology

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.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 252 (72L;180P)

EXCLUSION No more than one course from CLST 129/6.0; CLST 130/3.0.

EXCLUSION No more than one course from CLST 129/6.0; CLST 131/3.0.

CLST 130/3.0 Introduction to Archaeology I: Great Discoveries in Archaeology

Development of the discipline and most important discoveries; analysis of historic and prehistoric cultures and sites with emphasis on the ancient Mediterranean.

LEARNING HOURS 126 (36L;90P)

EXCLUSION No more than one course from CLST 129/6.0; CLST 130/3.0.

CLST 131/3.0 Introduction to Archaeology II: Methods and Analysis

Current theoretical issues; excavation and field research; analysis of material evidence for the study of ancient societies; heritage conservation and cultural property.

LEARNING HOURS 126 (36L;90P)

EXCLUSION No more than one course from CLST 129/6.0; CLST 131/3.0.

CLST 200/3.0 Greek History

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.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE Level 2 or above.

CLST 201/3.0 Roman History

Survey of the basic social and political developments in Rome from kingdom to republic to empire.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE Level 2 or above.

CLST 203/3.0 Myth and Religion

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.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE Level 2 or above.

CLST 205/3.0 Ancient Humour

The techniques by which humour was created in literature and the visual arts in antiquity; social and psychological aspects of humour.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 104 (2L;18G;24O;60P)

PREREQUISITE Level 2 or above.

CLST 206/3.0 Roman Britain

An exploration of the history and archaeology of Roman Britain from the expeditions of Julius Caesar in 55 B.C. to the Roman withdrawal in 411 A.D. On-site instruction in excavation and archaeological practice, and visits to major Roman sites about the United Kingdom.

NOTE This course includes a five-day field trip component.

NOTE Offered only at the Bader International Study Centre, Herstmonceux.

LEARNING HOURS 105 (18L;15S;12Lb;35G;25P)

PREREQUISITE Level 2 or above.

CLST 207/3.0 The Ancient Near East

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 online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 126 (36L;90P)

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

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.

LEARNING HOURS 126 (36L;90P)

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

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?

LEARNING HOURS 126 (36L;90P)

PREREQUISITE Level 2 or above.

CLST 303/3.0 Archaeology of Early Greece

Study of the remains from the Bronze Age to the end of the Archaic period. Emphasis on the revival of architecture, painting and sculpture.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE (CLST 102/3.0 and CLST 103/3.0) or CLST 129/6.0 or CLST 200/3.0 or CLST 207/3.0 or *CLST 101/6.0* or permission of the Department.

CLST 304/3.0 Archaeology of the Classical World and Hellenistic Period

Intensive study of the achievements in architecture, painting and sculpture, and town planning from 480 B.C. to 31 B.C.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE (CLST 102/3.0 and CLST 103/3.0) or CLST 129/6.0 or CLST 200/3.0 or *CLST 101/6.0* or permission of the Department.

CLST 305/3.0 Archaeology of the Etruscans and Early Romans

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.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE (CLST 102/3.0 and CLST 103/3.0) or CLST 129/6.0 or CLST 201/3.0 or *CLST 101/6.0* or permission of the Department.

CLST 306/3.0 Archaeology of the Roman Empire

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.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE (CLST 102/3.0 and CLST 103/3.0) or CLST 129/6.0 or CLST 201/3.0 or *CLST 101/6.0* or permission of the Department.

CLST 309/3.0 Caravan Cities of the Ancient Near East

Caravan cities were multicultural communities that bridged ancient empires and are an important part of the world's heritage. Through an exploration of the archaeological remains and the cultural character of four Near Eastern caravan cities students will evaluate how these communities inform and impact on concepts of cultural and global identity.

LEARNING HOURS 120 (18L;12S;84P)

PREREQUISITE Level 3 and (CLST 102/3.0 or CLST 103/3.0 or CLST 129/6.0 or CLST 130/3.0 or CLST 131/3.0 or CLST 200/3.0 or CLST 201/3.0) or permission of the department.

CLST 311/3.0 Greek and Roman Epic

Intensive study (in translation) of the major epics of classical antiquity: Homer, Hesiod, Apollonios, Vergil and Lucan in the context of the oral and literate heroic traditions. Comparative study of English heroic poetry encouraged.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE CLST 100/6.0 or (CLST 102/3.0 and CLST 103/3.0) or *CLST 101/6.0* or permission of the Department.

CLST 312/3.0 Greek and Roman Drama

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.

LEARNING HOURS 121.5 (12L;72G;37.5P)

PREREQUISITE CLST 100/6.0 or (CLST 102/3.0 and CLST 103/3.0) or DRAM 200/6.0 or DRAM 219/3.0 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

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.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE CLST 200/3.0 or CLST 201/3.0 or CLST 207/3.0 or CLST 208/3.0 or CLST 214/3.0.

CLST 321/3.0 World of Late Antiquity

Study of the rise of Christianity and the Christian reception of classical culture.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE CLST 201/3.0 or permission of the Department.

CLST 332/3.0 The Iron Age to the End of the Persian Wars

Study of the period from the formation of Greek civilization following the collapse of the Bronze Age Palace Culture until the end of Persian Wars (479 BCE). Topics may include the development of the polis and its institutions, Greek colonization, the tyrants and the beginning of Athenian democracy, and conflict with the Persian Empire.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE CLST 200/3.0 or permission of the Department.

EXCLUSION No more than 3.0 units from *CLST 330/3.0*; *CLST 332/3.0*.

CLST 333/3.0 The Rise of the Athenian Empire to the End of the Peloponnesian War

Study of the rise of Athenian power from the end of the Persian Wars in 479 BCE, and the conflict between Athens and Sparta along with their allies during the Peloponnesian War (431-404 BCE). Topics may include the Delian League and Athenian imperialism, development of radical democracy in Athens, and causes and effects of the Peloponnesian War.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE CLST 200/3.0 or permission of the Department.

EXCLUSION No more than 3.0 units from *CLST 330/3.0*; *CLST 333/3.0*.

CLST 334/3.0 **Fourth Century Greece to the Death of Alexander**

Study of Greek history in the century following the end of the Peloponnesian War in 404 BCE. Topics may include the crisis and renewal of the Greek polis; the Spartan hegemony, the rise of Thebes, the Second Athenian League, and the failure of hegemonic policies; the end of the Achaemenid Empire; the rise of Macedon; and the campaigns of Alexander.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE CLST 200/3.0 or permission of the Department.

EXCLUSION No more than 3.0 units from *CLST 331/3.0*; CLST 334/3.0.

CLST 335/3.0 **The Hellenistic Successor Kingdoms to the Death of Cleopatra**

Study of the Successor Kingdoms (Antigonids, Ptolomies, and Seleucids) during the period from the death of Alexander the Great in 323 BCE until the end of the Ptolemaic Dynasty in Egypt with the Death of Cleopatra in 30 BCE. Topics may include the role of Greece in the new Mediterranean order, structures of Hellenistic kingdoms, Romans in the East.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE CLST 200/3.0 or permission of the Department.

EXCLUSION No more than 3.0 units from *CLST 331/3.0*; CLST 335/3.0.

CLST 340/3.0 **The Roman Republic**

Emergence of Early Rome and the social and political growth of the Republic.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE CLST 201/3.0 or permission of the Department.

CLST 341/3.0 **The Roman Empire**

Intensive study of the Empire to the reign of Marcus Aurelius. Politics of the imperial courts: administration and Romanization of the provinces.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE CLST 201/3.0 or permission of the Department.

CLST 343/3.0 **The Later Roman Empire**

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.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE CLST 201/3.0 or permission of the Department.

CLST 401/3.0 **Research Methods**

An introduction to the diverse research methods deployed in Classics, Archaeology and Ancient History. Weekly seminars will feature the research interests of members of the Classics Department, cross-appointed faculty, and visiting researchers.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE (Level 4 in a CLST or CLAS or GREK or LATN Plan with a minimum GPA of 2.90) or permission of the Department.

CLST 404/3.0 **The Topography of Athens**

The growth of Athens from the Neolithic period to Late Antiquity. Emphasis on social and political developments and personal aspirations which determine the cityscape.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE CLST 303/3.0 or CLST 304/3.0 or CLST 332/3.0 or CLST 333/3.0 or CLST 334/3.0 or CLST 335/3.0 or *CLST 330/3.0* or *CLST 331/3.0* or permission of the Department.

CLST 405/3.0 **The Topography of Rome**

The growth of Rome from the foundation to Late Antiquity based on archaeological evidence. Emphasis on developments during its classical period.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE CLST 305/3.0 or CLST 306/3.0 or CLST 321/3.0 or CLST 340/3.0 or CLST 341/3.0 or CLST 343/3.0 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.

NOTE Offered in Summer Term.

NOTE In addition to tuition, students are required to pay for their own transportation to the archaeological site and to pay a camp fee.

LEARNING HOURS 282 (201Lb;18T;27G;36I)

PREREQUISITE Level 2 and 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.

NOTE Offered in Summer Term (May-June or July-August Session).

NOTE In addition to tuition, students are expected to pay their own travel and accommodation costs. Fee includes: housing, lunch and dinner from Mondays to Fridays, trips to sites and museums, museum tickets, transportation to and from the dig. Estimated cost \$2600.

LEARNING HOURS 276 (160Lb;12T;48Pc;32G;24I)

PREREQUISITE (CLST 303/3.0 or CLST 304/3.0 or CLST 305/3.0 or CLST 306/3.0) and permission of the Department.

CLST 410/3.0 Topics in Greek Scholarship

Intensive study of a special topic, period, or author(s) in the Greek world.

LEARNING HOURS 120 (24L;12S;84P)

PREREQUISITE Level 4 in a CLST or CLAS or GREK or LATN Plan.

CLST 411/3.0 Topics in Greek Scholarship II

Intensive study of a special topic, period, or author(s) in the Greek world.

PREREQUISITE Level 4 in a CLST or CLAS or GREK or LATN Plan, and permission of Department.

CLST 412/3.0 Archaeology Fieldwork Practicum IIIa

An intensive two-week introduction to archaeological and architectural recording using photography, surveying, and 3D measurement on a site of historical importance for the Classical and Byzantine period in the Balkans under the supervision of a member of the Classics Department.

NOTE Offered in Summer Term

NOTE In addition to tuition, students are required to pay for their own transportation to the site and a participation fee. Fee includes: housing, breakfast, lunch and dinner from Mondays to Sundays, trips to sites and museums, museum tickets, transportation to and from the dig. Estimated cost \$1997. Discounts available for early registration or if both IIIa and IIIb trips are taken.

LEARNING HOURS 128 (12L;44Pc;44G;4I;8Oc;16P)

PREREQUISITE Level 2 and permission of the Department.

CLST 413/3.0 Archaeology Fieldwork Practicum IIIb

An intensive two-week introduction to archaeological and architectural recording using photography, surveying, and 3D measurement on a site of historical importance for the Classical and Byzantine period in the Balkans under the supervision of a member of the Classics Department.

NOTE Offered in Summer Term

NOTE In addition to tuition, students are required to pay for their own transportation to the site and a participation fee. Fee includes: housing, breakfast, lunch and dinner from Mondays to Sundays, trips to sites and museums, museum tickets, transportation to and from the dig. Estimated cost \$1997. Discounts available for early registration or if both IIIa and IIIb trips are taken.

LEARNING HOURS 128 (12L;44Pc;44G;4I;8Oc;16P)

PREREQUISITE Level 2 and permission of the Department.

CLST 420/3.0 Topics in Latin/Roman Scholarship I

Intensive study of a special topic, period, or author(s) in the world of Rome. For information contact the Department.

LEARNING HOURS 120 (24L;12S;84P)

PREREQUISITE Level 4 in a CLST or CLAS or GREK or LATN Plan.

CLST 421/3.0 Topics in Latin/Roman Scholarship II

Intensive study of a special topic, period, or author(s) in the world of Rome. For information contact the Department.

PREREQUISITE Level 4 in a CLST or CLAS or GREK or LATN Plan, and permission of 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.

LEARNING HOURS 240 (24I;216Oc)

PREREQUISITE Permission of the Department.

COCA 201/3.0**Introduction to Computing and the Creative Arts**

A multidisciplinary studio-oriented overview of computer-based applications in Art, Music, Drama and Film. History of human-computer interaction. Critical and philosophical issues. Animation. Virtual reality. Computer-aided design. Computer games. Enrolment is limited.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above and (C- in 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 CISC 151 or permission of the School of Computing.

COGS 100/3.0 Introduction to Cognitive Science

A multidisciplinary approach to the study of the mind combining approached from philosophy, psychology, linguistics, neuroscience, anthropology, and artificial intelligence. Logic, rules, concepts, and other mental representations used to generate thought and behaviour. Implementation of computational and cognitive models of mental processes.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

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

Introduction to the computational aspects of the mind. Implementation of computer programs for reasoning, decision making, and problem solving to understand these mental processes. Information theory and behaviourism; computational models of cognition, perception and memory processes demonstrating modeling approaches, and cognitive architectures.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above and C- in (COGS 100/3.0 or PSYC 100/6.0).

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

Importance and challenges of building cognitive models; steps of model building, programming simple models using computational and statistical techniques and tools such as Matlab. Recent models from research publications.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE C- in [(COGS 201/3.0 or PSYC 221/3.0) and (PSYC 202/3.0 or STAT_Options)].

COGS 400/3.0 Neural and Genetic Cognitive Models

Artificial Neural Networks (ANN) and Genetic Algorithms (GA) for problem solving and prediction tasks such as classification, clustering, optimization and data reduction and modeling human cognition, with application to real world problems. Ongoing research in this area in various application domains.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE C- in (CISC 235/3.0 or ELEC 278/4.0).

EXCLUSION No more than 1 course from COGS 400/3.0; CISC 452/3.0; CMPE 452/3.0.

COGS 499/3.0 Advanced Undergraduate Project

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.

LEARNING HOURS 120 (24S;12I;84P)

PREREQUISITE Level 4 and registration in a COGS Specialization Plan and a GPA of 1.90 and a GPA of 2.60 in CISC;COCA; COGS; SOFT and 30.0 units in CISC; COCA; COGS; SOFT and C- in (CISC 352/3.0 or CISC 365/3.0).

EXCLUSION No more than one course from (CISC 499/3.0; COGS 499/3.0; CISC 500/6.0).

COMP 329/3.0 Introduction to Computer-Integrated Surgery

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.

NOTE Not available for credit towards a BCMP/BCMPH program. Computing students should take CISC 330/3.0.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 3.0 units from CISC 330/3.0; COMP 329/3.0; *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 2 or 3 and registration in a Bachelor of Computing internship plan (BMCO-I-BCH or COGS-I-BCH or COMA-I-BCH or COMP-I-BCH or CSCI-I-BCH or SODE-I-BCH).

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.

PREREQUISITE GPA of 1.90 and Level 2 or 3 and registration in a Bachelor of Computing internship plan (BMCO-I-BCH or COGS-I-BCH or COMP-I-BCH or CSCI-I-BCH or SODE-I-BCH).

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.

PREREQUISITE GPA of 1.90 and Level 2 or 3 and registration in a Bachelor of Computing internship plan (BMCO-I-BCH or COGS-I-BCH or COMP-I-BCH or CSCI-I-BCH or SODE-I-BCH).

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.

PREREQUISITE GPA of 1.90 and Level 2 or 3 and registration in a Bachelor of Computing internship plan (BMCO-I-BCH or COGS-I-BCH or COMA-I-BCH or COMP-I-BCH or CSCI-I-BCH or SODE-I-BCH).

CRSS 453/3.0 Principles in Cardiorespiratory Science I

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.

PREREQUISITE Level 4 and registration in a LISC Major or Specialization Plan and a GPA of 2.5 and [(PHGY 215/3.0 and PHGY 216/3.0) or *PHGY 214/6.0* or *PHGY 212/6.0*].

CRSS 454/3.0 Cardiovascular Sciences

A study of the physiology, pharmacology and anatomy of the cardiovascular system. Topics include integrative mechanisms of control and pharmacotherapy involved in short-term and long-term control of the circulation in health and disease.

NOTE Assessment involves essay-style exams, student seminar presentations and a group research project (final oral presentation).

LEARNING HOURS 138 (18L;10S;10G;100P)

EQUIVALENCY *LISC 454/3.0*.

PREREQUISITE Level 4 and registration in the LISC Major or Specialization Plan and a GPA of 2.5.

EXCLUSION No more than 3.0 units from CRSS 454/3.0 and *LISC 454/3.0*.

CRSS 456/3.0 Molecular and Cellular Basis of Cardiovascular Disease

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.

PREREQUISITE Level 4 and registration in a LISC Major or Specialization Plan and a GPA of 2.5 and [(PHGY 215/3.0 and PHGY 216/3.0) or *PHGY 210/6.0* or *PHGY 212/6.0* or *PHGY 214/6.0*].

CRSS 498/3.0 Cardiorespiratory Rounds

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.

PREREQUISITE Level 4 and registration in a LISC Major or Specialization Plan and a GPA of 2.5 and [(PHGY 215/3.0 and PHGY 216/3.0) or *PHGY 210/6.0* or *PHGY 212/6.0* or *PHGY 214/6.0*].

CWRI 293/3.0 Creative Writing in Prose

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

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

A practical examination of creative writing skills, focused on the writing workshop. The student may concentrate on short fiction or poetry, or a combination of the two, throughout the term.

NOTE Admission is based on writing samples.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Permission of the instructor.

CWRI 296/3.0 Creative Writing II

This course is structured entirely around the creative writing workshop. The concentration is on short fiction and poetry, though memoir and creative non-fiction are options. There is intensive focus on publication and editing in a class-produced anthology, launched at the end of term with a public reading.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE CWRI 293/3.0 or CWRI 294/3.0 or CWRI 295/3.0, and permission of the instructor.

CWRI 397/3.0 The Literary Screenplay

This course offers students an opportunity to learn the craft of writing for dramatic film. The class will be structured as both an academic seminar and a writing workshop. Students will analyze scripts, short stories, and films to prepare themselves for writing a dramatic adaptation of a story.

LEARNING HOURS 162 (36S;120P)

PREREQUISITE CWRI 293/3.0 or CWRI 294/3.0 or CWRI 295/3.0.

EXCLUSION No more than 3.0 units from CWRI 397/3.0; ENGL 489/3.0 (Fall 2015 and Winter 2017).

DDHT 459/3.0 Principles of Drug Discovery

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.

LEARNING HOURS 120 (12L;24G;84P)

RECOMMENDATION PHAR 416/3.0.

PREREQUISITE PHAR 270/3.0 or PHAR 340/3.0.

EXCLUSION No more than 3.0 units from DDHT 459/3.0; PHAR 480/3.0.

DDHT 460/3.0 Principles of Drug Development

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.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION DDHT 459/3.0 and PHAR 416/3.0.

PREREQUISITE PHAR 270/3.0 or PHAR 340/3.0.

EXCLUSION No more than 3.0 units from DDHT 460/3.0; PHAR 480/3.0.

DEVS 100/6.0 Canada and the 'Third World'

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 online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Studies Centre, Herstonceux. Learning Hours may vary.

LEARNING HOURS 240 (48L;24T;24O;144P)

DEVS 220/3.0 Introduction to Aboriginal Studies

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;12O;72P)

DEVS 221/3.0 Topics in Aboriginal Studies

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 online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE DEVS 220/3.0 or permission of the Department of Global Development Studies.

DEVS 230/3.0 The Global Political Economy of Development

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 online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 96 (24L;12T;12O;48P)

PREREQUISITE DEVS 100/6.0 (DEVS 100/6.0 can be taken concurrently in exceptional circumstances).

DEVS 240/3.0 Culture and Development

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (24L;12T;84P)

PREREQUISITE DEVS 100/6.0 and DEVS 230/3.0. (DEVS 100/6.0 can be taken concurrently in exceptional circumstances).

DEVS 250/3.0 Global Environmental Transformations

Examines the relationship between development and environmental change by introducing social science perspectives on themes including energy, agriculture, climate, urbanization, and water. With a focus on combining macro- and micro-analysis, the course reflects on the meaning of development in an era of global environmental transformation.

LEARNING HOURS 117 (26L;13T;78P)

PREREQUISITE Level 2 or above.

DEVS 260/3.0 Globalization, Gender, and Development

This course is designed for those interested in undertaking a critical analysis of the gendered impact of the globalization process and development policies with a focus on women in the Global South.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (48O;78P)

PREREQUISITE [(Level 2 or above or registration in the GAEN certificate) and DEVS 100/6.0] or permission of the instructor.

DEVS 270/3.0 Cities and Urbanization in the South

This course examines cities and urbanization in countries in the South, looking at similarities and differences between and across regions, and the extent to which these cities connect (or not) with urban areas in the North.

NOTE Priority will be given to students registered in a DEVS Plan during course selection.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 3.0 units from DEVS 270/3.0 and DEVS 292-002 F 2017.

DEVS 280/3.0 Global Engagement

This course explores current thinking around the motivations for, and ethical implications of, working with communities on issues of social justice, inequality, and sustainable development. Students will engage in self-reflexive practices and work collaboratively to create tools and action plans for ethical global engagement in the future.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (84O;36P)

PREREQUISITE [(Level 2 or above or registration in the GAEN certificate) and DEVS 100/6.0] or permission of the instructor.

DEVS 292/3.0 Topics in Development Studies I

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.

LEARNING HOURS 120 (36L;84P)

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

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.

LEARNING HOURS 120 (24L;12T;84P)

PREREQUISITE Level 2 or above and registration in any DEVS Plan, or permission of the Department.

DEVS 300/3.0 Cross-Cultural Research Methods

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.

LEARNING HOURS 132 (24L;12G;96P)

PREREQUISITE 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. Estimated cost \$2785.00.

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.

DEVS 311/3.0 Labour and Global Development

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.

LEARNING HOURS 120 (24L;12T;84P)

PREREQUISITE DEVS 100/6.0 and DEVS 230/3.0.

DEVS 320/3.0 AIDS, Power, and Poverty

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.

LEARNING HOURS 120 (24L;12T;84P)

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

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.

DEVS 330/3.0 Technology and Development

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 333/3.0 Business and Global Development

Over the past several decades, business – particularly large multinational corporations – have come to play an increasingly dominant role in global development. This course will interrogate the structures, processes and practices employed by corporations as the forge new partnerships with states, global development organizations and corporations.

LEARNING HOURS 120 (24L;12T;84P)

PREREQUISITE One of COMM 200/3.0; COMM 372/3.0; COMM 375/3.0; COMM 407/3.0; DEVS 230/3.0; DEVS 250/3.0; GPHY 228/3.0; POLS 262/3.0; SOCY 225/3.0.

DEVS 340/3.0 Theories of Development

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.

LEARNING HOURS 120 (24L;12T;84P)

PREREQUISITE 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 350/3.0 Gender and Development

Explores gender and development as related social formations in global North and South. Traces historical processes including colonial capitalism as it restructured gender inequalities, shaped anti-colonial projects of 'freedom', framed institutional projects of rights and 'empowerment', and recast resistance against gender inequality.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE 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 361/3.0 Policy Advocacy and Field Specific Skills

The course prepares students for fieldwork in global development. It connects theory with practice through in-depth, skills-based modules on economic literacy, results-based management (RBM), and policy advocacy. Students will apply core concepts and best practices to effective proposal writing, project management, and policy advocacy.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (72O;48P)

PREREQUISITE [(Level 2 or above or registration in the GAEN certificate) and DEVS 280/3.0] or permission of the instructor.

DEVS 362/3.0 Globally Engaged Experiential Learning

This course builds on DEVS 280/3.0 by facilitating an 80-hour experience related to global engagement. Students will engage with concepts of ethical engagement and relationship building as they are guided through a practical experiential learning opportunity in the field of global engagement.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (72O;48P)

PREREQUISITE [(Level 2 or above or registration in the GAEN certificate) and DEVS 280/3.0] or permission of the instructor.

DEVS 392/3.0 Topics in Development Studies I

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above and registration in any DEVS Plan, or permission of the Department.

DEVS 393/3.0 Topics in Development Studies II

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.

LEARNING HOURS 132 (24L;12T;96P)

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

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

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

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 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.

LEARNING HOURS 260 (60G;200P)

PREREQUISITE 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

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.

LEARNING HOURS 120 (36S;84P)

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 Study Placement 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.

LEARNING HOURS 124 (40G;84P)

PREREQUISITE 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 480/6.0 Reindigenizing People and Environment

600 years of colonialism have greatly harmed this planet's people and environments. Complementary lifeways can balance cognitive, emotional, and physical realities and inform intellectual, scientific, and artistic enquiry. This course attempts to strike that balance, through academic inquiry and visceral experience, in the classroom and on the land.

NOTE Students are required to make application. Contact Department for application information.

NOTE Students are expected to pay an ancillary fee for travel and food costs while in the field. The estimated cost is \$400.

LEARNING HOURS 232 (8L;8S;36O;100Oc;80P)

PREREQUISITE DEVS 220/3.0 or GPHY 351/3.0.

DEVS 492/3.0 Topics in Development Studies I

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.

DEVS 493/3.0 Topics in Development Studies II

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.

DEVS 494/3.0 Topics in Development Studies III

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.

DEVS 495/3.0 Topics in Development Studies IV

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.

LEARNING HOURS 132 (36S;96P)

PREREQUISITE Level 4 and registration in the DEVS Major or Medial Plan, or permission of the Department.

DEVS 496/3.0 Topics in Development Studies V

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.

DEVS 497/3.0 Topics in Development Studies VI

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.

DEVS 498/3.0 Topics in Development Studies VII

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.

DEVS 499/3.0 Topics in Development Studies VIII

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 identify a willing supervisor from DEVS or a cognate department and receive permission of the Department of Global Development Studies.

LEARNING HOURS 240 (24I;216P)

PREREQUISITE Minimum Cumulative GPA of 3.50 and Level 4 and registration in the DEVS Major or Medial Plan.

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.

LEARNING HOURS 120 (12I;108P)

PREREQUISITE 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

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.

LEARNING HOURS 228 (36L;36Lb;36O;120P)

EXCLUSION No more than 6.0 units from DRAM 100/6.0; DRAM 181/6.0.

DRAM 181/6.0 Introduction to Current Theatre

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 200/6.0 Theatre History and Literature I

A chronological survey of production methods, architecture, performance, and dramatic literature in western and eastern theatre traditions from early classical eras to the end of the 19th century.

LEARNING HOURS 240 (72L;60O;108P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 6.0 units from DRAM 200/6.0; DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0.

DRAM 201/3.0 Drama I

A survey of structure, forms and ideas of dramatic literature originating in works up to the 18th century. Plays will be read in English.

EXCLUSION No more than 6.0 units from DRAM 200/6.0; DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0.

DRAM 202/3.0 Drama II

A survey of structure, forms and ideas of dramatic literature originating in works from 17th century to present. Plays will be read in English.

EXCLUSION No more than 6.0 units from DRAM 200/6.0; DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0.

DRAM 205/3.0 Theatre in the Age of Film and Television

An exploration of theatricality and theatrical communication via an examination of how some major trends in theatre since the 19th century have been represented by film and electronic media. The course will study examples of theatrical works on film and other theatrical responses to social, cultural, and political issues presented in mass media.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 114 (18G;60O;36P)

PREREQUISITE Level 2 or above.

DRAM 210/6.0 Theatre History

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 6.0 units from (DRAM 100/6.0; DRAM 181/6.0; BISC100/3.0; BISC101/3.0) or permission of the Department.

EXCLUSION No more than 6.0 units from DRAM 200/6.0; DRAM 201/3.0; DRAM 202/3.0; DRAM 210/6.0.

DRAM 211/3.0 Introduction to Theatre for Young Audiences

An introduction to 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.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (84O;36P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 3.0 units from DRAM 211/3.0; DRAM 311/3.0.

DRAM 219/3.0 Special Studies I

A seminar or practicum in selected areas of the curriculum.

NOTE Not offered each year. Prerequisites vary depending on specific course content. See Department for details.

PREREQUISITE Level 2 or above.

DRAM 220/3.0 Introduction to Dramaturgy

A study of applied dramatic literature, including structure, genre, and staging techniques. Students will analyze several plays from various points of view, embracing both theatrical and literary concerns.

LEARNING HOURS 126 (36L;300;60P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 6.0 units from DRAM 201/3.0; DRAM 202/3.0; DRAM 220/3.0.

DRAM 236/3.0 Public Presentation

An introduction to the principles and skills of preparing and delivering effective oral presentations. Using acting techniques and the principles of theatre, students will explore confidence building, vocal and physical dynamics as well as creative expression.

LEARNING HOURS 108 (36G;36Pc;36P)

PREREQUISITE Level 2 or above.

DRAM 237/3.0 Elementary Acting I - The Actor's Instrument

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 Priority enrollment given to students in a DRAM or STSC Plan.

LEARNING HOURS 120 (18Lb;18Pc;84P)

PREREQUISITE Level 2 or above and registration in a COCA, DRAM, MUSC, MUTH, or STSC Plan.

EXCLUSION No more than 6.0 units from DRAM 237/3.0; DRAM 238/3.0; DRAM 239/3.0.

DRAM 238/3.0 Elementary Acting II - Theories and Styles of Acting

A practical introduction to various theories and styles of acting, involving the exploration of various approaches to the cultural and period context of performance.

NOTE Priority enrollment given to students in a DRAM or STSC Plan.

LEARNING HOURS 120 (36Pc;84P)

PREREQUISITE Level 2 or above and DRAM 100/6.0.

EXCLUSION No more than 6.0 units from DRAM 237/3.0; DRAM 238/3.0; DRAM 239/3.0.

DRAM 239/3.0 Special Topics in Performance I

Practical work in selected areas of performance. Not offered every year.

NOTE Priority enrollment given to students in a DRAM Plan.

LEARNING HOURS 120 (36Pc;84P)

PREREQUISITE Level 2 or above and DRAM 100/6.0.

EXCLUSION No more than 6.0 units from DRAM 237/3.0; DRAM 238/3.0; DRAM 239/3.0.

DRAM 240/3.0 Introduction to Theatre Space

A theoretical and practical introduction to technical production including various elements of theatre space, design and construction, groundplans, and stage management.

NOTE Preference will be given to students registered in a DRAM Plan who require this course for their plan.

NOTE Design Program Fee \$25.

NOTE Students in DRAM Major and Medial Plans are strongly encouraged to take DRAM 246/1.5 in their second year concurrently with DRAM 240/3.0.

LEARNING HOURS 120 (18S;18Pc;84P)

PREREQUISITE Level 2 or above and registration in a COCA, DRAM, MUSC, MUTH, or STSC Plan.

DRAM 241/3.0 Design and Theatre

An examination of design elements in theatrical production, exploring the work of design practitioners and theorists, and studying the design process.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of B- in DRAM 240/3.0.

DRAM 242/3.0 Introduction to Theatre Production

A theoretical and practical introduction to theatre production including various elements of design construction, costume, properties, lighting and sound systems and equipment.

NOTE Preference will be given to students registered in a DRAM Plan or who require this course for their plan.

NOTE Costume construction Fee \$25.

LEARNING HOURS 120 (18S;18Pc;84P)

PREREQUISITE A grade of B- in (DRAM 240/3.0 or FILM 250/6.0).

DRAM 246/1.5 Technical Practicum

A credit/non-credit practicum for 48 hours of extra-curricular work in drama-related fields, including departmental productions.

LEARNING HOURS 48 (6I;42P)

COREQUISITE DRAM 240/3.0 or DRAM 242/3.0.

DRAM 247/1.5 Drama Practicum

A credit/non-credit practicum for 48 hours of extra-curricular work in drama related fields, including departmental productions.

LEARNING HOURS 48 (6I;42P)

COREQUISITE DRAM 240/3.0 or DRAM 242/3.0.

DRAM 251/3.0 Introduction to Playwriting

Writing of dramatic exercises and one-act plays accompanied by dramaturgical study of published and original works.

NOTE Priority in the on-campus offering of this course is given to students in a DRAM Plan.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 2 or above.

DRAM 271/3.0 Medieval Dramatic Literature

A seminar course devoted to the exploration of a range of dramatic works from the Medieval period in England. Students will read works from both religious and secular traditions, including liturgical drama, morality plays, cycle dramas and interludes.

LEARNING HOURS 120 (36S;24Oc;60P)

PREREQUISITE Level 2 or above.

DRAM 273/3.0 Medieval Performance

A practical performance course where students will actively explore historical performance styles and conventions. The focus of this course will be the rehearsal of one or more plays to be presented in period acting style and costume as part of England's Medieval Fair at the culmination of the course.

LEARNING HOURS 104 (36S;32Oc;36P)

PREREQUISITE Level 2 or above.

COREQUISITE DRAM271/3.0.

DRAM 289/3.0 Special Studies in British and European Theatre

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 300/6.0 Theatre History and Literature II

A study of production and performance methods, and dramatic literature of the 20th and 21st centuries.

LEARNING HOURS 252 (24L;24S;24G;60O;120P)

PREREQUISITE Level 3 or above.

DRAM 301/3.0 Theories of the Theatre I

An exploration of theoretical questions underlying drama and performance throughout their histories. Selected readings, lectures, student presentations, class discussions and contemplation of theatre issues.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 or above and registration in a COCA, DRAM, MUSC, MUTH, or STSC Plan.

DRAM 303/3.0 First Nations Playwrights

A survey of the work of First Nations playwrights, exploring the stories, concerns and aesthetics of these contemporary, mostly Canadian, theatrical practitioners. Course work involves reading, discussion, and writing descriptively, critically or creatively about selected pieces in artistic, social and/or political contexts.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 or above.

DRAM 306/3.0 Canadian Drama

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

DRAM 310/3.0 Modernist Staging

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 and (registration in a DRAM Major or Medial Plan, or COCA-CODR Sub-Plan, or STSC Specialization Plan) and (a GPA of 2.60 in DRAM) or permission of the Department.

EXCLUSION No more than 6.0 units from DRAM 300/6.0; DRAM 310/3.0.

DRAM 311/3.0 Theatre for Young Audiences

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.

LEARNING HOURS 120 (24L;12Pc;84P)

PREREQUISITE Level 3 or above and registration in a COCA, DRAM, MUSC, MUTH, or STSC Plan.

EXCLUSION No more than 3.0 units from DRAM 211/3.0; DRAM 311/3.0.

DRAM 314/3.0 Young Peoples' Theatre Practicum

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 319/3.0 Special Studies II

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.

PREREQUISITE Level 3 or above.

DRAM 323/3.0 Practical Concerns in Directing

Exploration of practical preproduction needs. Topics may include casting, staging, theatre configuration, textual alteration, rehearsal technique, period research, design approaches.

LEARNING HOURS 120 (36Pc;18G;66P)

PREREQUISITE Level 3 or above and (registration in a COCA, DRAM, MUSC, MUTH, or STSC Plan) and (a grade of B- in DRAM 241/3.0 or DRAM 242/3.0).

DRAM 331/3.0 Playing Shakespeare

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.

LEARNING HOURS 120 (36Pc;18G;66P)

PREREQUISITE Level 3 and (registration in a COCA, DRAM, MUSC, MUTH, or STSC Plan) and a grade of B- in DRAM 237/3.0 and (3.0 units from DRAM 238/3.0; DRAM 239/3.0; DRAM 273/3.0).

EXCLUSION No more than 6.0 units from DRAM 331/3.0; DRAM 332/3.0; DRAM 339/3.0; STSC 300/3.0.

DRAM 332/3.0 Performing with Masks

An extension of core acting skills and an opportunity to develop an appreciation for performance through the medium of mask.

LEARNING HOURS 108 (36G;36Pc;36P)

PREREQUISITE Level 3 and (registration in a COCA, DRAM, MUSC, MUTH, or STSC Plan) and a grade of B- in DRAM 237/3.0 and (3.0 units from DRAM 238/3.0; DRAM 239/3.0; DRAM 273/3.0).

EXCLUSION No more than 6.0 units from DRAM 331/3.0; DRAM 332/3.0; DRAM 339/3.0; STSC 300/3.0.

DRAM 339/3.0 Special Topics in Performance II

Practical work in selected areas of performance. Not offered every year.

LEARNING HOURS 120 (36Pc;48G;36P)

PREREQUISITE Level 3 and (registration in a COCA, DRAM, MUSC, MUTH, or STSC Plan) and a grade of B- in DRAM 237/3.0 and (3.0 units from DRAM 238/3.0; DRAM 239/3.0; DRAM 273/3.0).

EXCLUSION No more than 6.0 units from DRAM 331/3.0; DRAM 332/3.0; DRAM 339/3.0; STSC 300/3.0.

DRAM 342/3.0 Elements of Design Practice

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE A grade of B- in DRAM 241/3.0.

DRAM 344/3.0 Scenography

A study of the integration of the elements of design which together contribute to a three-dimensional environment for performance.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 or above.

DRAM 345/3.0 Applied Technical Production

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.

LEARNING HOURS 138 (18S;120P)

PREREQUISITE Level 3 and (registration in a COCA, DRAM, MUSC, MUTH, or STSC Plan) and (a grade of B in DRAM 242/3.0 and DRAM 246/1.5).

DRAM 350/6.0 Playwriting III

Continuation of DRAM 251/3.0. An intermediate study of playwriting and dramaturgy, including exercises in dramatic techniques and composition of original works.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE Level 3 or above and (registration in a COCA, DRAM, MUSC, MUTH, or STSC Plan) and a grade of B- in DRAM 251/3.0.

EXCLUSION No more than 1 course from DRAM 350/6.0; DRAM 351/3.0.

DRAM 351/3.0 Playwriting and Dramaturgy III

Continuation of DRAM 251/3.0. An intermediate study of playwriting and dramaturgy, including exercises in dramatic techniques and composition of original works.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 and (registration in a DRAM Major or Medial Plan, or COCA-CODR Sub-Plan, or STSC Specialization Plan) and (a grade of B- in DRAM 251/3.0) and (a GPA of 2.60 in DRAM) 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

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. Students are responsible for the costs of transportation, accommodation and Shaw Festival theatre tickets. Costs vary annually and details may be found on the Department website. Estimated \$495.00.

LEARNING HOURS 120 (36S;24Oc;60P)

PREREQUISITE Level 3 or above.

DRAM 373/3.0 Scene Study at the Shaw Festival

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. Students are responsible for the costs of transportation, accommodation and theatre tickets. Costs vary annually and details may be found on the Department website.

LEARNING HOURS 104 (36S;32Oc;36P)

PREREQUISITE Level 3 or above and (registration in a COCA, DRAM, MUSC, MUTH, or STSC Plan) and (3.0 units from DRAM 331/3.0; DRAM 332/3.0; DRAM 339/3.0).

COREQUISITE DRAM 371/3.0.

DRAM 375/3.0 Women and Theatre I

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 and (registration in a DRAM or GNDS Major or Medial Plan, or COCA-CODR Sub-Plan, or STSC Specialization Plan) and (a GPA of 2.60 in DRAM) or permission of the Department.

DRAM 381/3.0 Contemporary British Theatre and Drama

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 Level 3 standing and permission of the Department.

DRAM 395/3.0 Internship

Students can apply to undertake a practical internship in theatre production or administration.

NOTE Students will be given a grade of Pass/Fail for work done.

LEARNING HOURS 120 (96Oc;24P)

PREREQUISITE Level 3 and (registration in a DRAM Major or Medial Plan) and (a GPA of 2.9 in DRAM) and permission of the Department.

DRAM 400/6.0 Applied Theatre

A practicum course amalgamating a variety of aspects of theatre and drama.

LEARNING HOURS 240 (72S;72G;96P)

PREREQUISITE Level 4 and registration in a DRAM Major Plan and a GPA of 2.60.

DRAM 419/3.0 Special Studies III

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.

PREREQUISITE Level 4.

DRAM 422/3.0 Directing Practicum I

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

Research, rehearsal and presentation of a role for performance.

PREREQUISITE 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

Practical work in selected areas of performance. Not offered every year.

NOTE Prerequisites vary depending on specific course content; consult Department.

PREREQUISITE Level 4.

DRAM 448/3.0 Theatre Administration

This course examines a range of administrative and collaborative skills necessary for producing theatre works. Among the areas that will be defined and discussed are marketing, budgeting, fundraising, staffing, and production management, as applied to a variety of types of organizational contexts (commercial, non-profit, university, and community).

LEARNING HOURS 120 (36S;84P)

EQUIVALENCY *DRAM 348/3.0.*

PREREQUISITE Level 4 and registration in a COCA. DRAM, MUSC, MUTH, or STSC Plan.

DRAM 476/3.0 Cultures of Theatre

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.

PREREQUISITE Level 4 and (registration in a DRAM Major or Media Plan, or COCA-CODR Sub-Plan, or STSC Specialization Plan) and (a grade of B- in DRAM 300/6.0) and (a GPA of 2.60 in DRAM) or permission of the Department.)

DRAM 500/6.0 Senior Project

An independent advanced project or thesis in any area of the basic curriculum in drama, supervised and evaluated by faculty.

NOTE In addition to the prerequisites indicated, the School may require a grade of A- in any DRAM course relevant to the subject of study.

PREREQUISITE Level 4 and registration in a DRAM Major or Media Plan and a GPA of 3.5 in DRAM and permission of the School.

DRAM 501/3.0 Directed Special Studies

An independent advanced project or thesis in any area of the basic curriculum in drama, supervised and evaluated by faculty.

NOTE In addition to the prerequisites indicated, the School may require a grade of A- in any DRAM course relevant to the subject of study.

PREREQUISITE Level 4 and registration in a DRAM Major or Media Plan and a GPA of 3.5 in DRAM and permission of the School.

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.

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.

PREREQUISITE A grade of A- in DRAM 345/3.0, or permission of the Department.

ECON 110/6.0 Principles of Economics

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.

LEARNING HOURS 240 (72L;240;144P)

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

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 online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;120;72P)

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

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 online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;120;72P)

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

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;6G;78P)

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 123/3.0 and MATH 124/3.0) or MATH 126/6.0.

ECON 222/3.0 Macroeconomic Theory I

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.

LEARNING HOURS 120 (36L;6G;78P)

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 123/3.0 and MATH 124/3.0) or MATH 126/6.0.

ECON 223/3.0 Macroeconomic Policy

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (24L;12G;48O;36P)

PREREQUISITE ECON 110/6.0 or ECON 112/3.0.

ECON 225/3.0 The Economics of the European Union

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.

LEARNING HOURS 120 (36L;24Oc;60P)

PREREQUISITE ECON 110/6.0 or ECON 112/3.0.

ECON 231/3.0 Emergence of the Modern Industrial Economy

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.

LEARNING HOURS 120 (36L;6G;78P)

PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 232/3.0 The Diffusion of Modern Economic Growth

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.

LEARNING HOURS 120 (36L;6G;78P)

PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 239/3.0 Economic Development

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.

LEARNING HOURS 120 (36L;6G;78P)

PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 240/3.0 Canadian Tax Policy

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.

LEARNING HOURS 120 (36L;6G;78P)

PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 241/3.0 Economic Aspects of Selected Social Issues

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.

LEARNING HOURS 120 (36L;6G;78P)

PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 243/3.0 The Economics of Health Care

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;12G;12O;60P)

PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 244/3.0 Economics of Indigenous Communities

An economic critique of policies past and present with regard to First Nations, Inuit, and Métis peoples living in Canada, with reference to relevant cultural, historic, geographic, and governance contexts. In some years material may be more comparative and international in scope.

LEARNING HOURS 120 (24L;12G;48O;36P)

PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 250/3.0 Introduction to Statistics

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.

LEARNING HOURS 120 (36L;12I;72P)

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 123/3.0 and MATH 124/3.0) or MATH 126/6.0.

EXCLUSION No more than 3.0 units from 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

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (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 123/3.0 and MATH 124/3.0] or MATH 126/6.0).

ECON 261/3.0 Canadian Labour Relations

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.

LEARNING HOURS 120 (36L;9G;75P)

PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 262/3.0 Labour Markets and Gender Differences

A Canadian perspective on labour market theories, trends, policies and the analysis of differences by gender in labour demand, labour supply, and wages.

LEARNING HOURS 120 (36L;6G;78P)

PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 280/3.0 Population and Economic Change

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.

LEARNING HOURS 120 (12L;24G;36O;48P)

PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 290/3.0 Environmental Economics and Assessment

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.

LEARNING HOURS 120 (36L;18G;66P)

PREREQUISITE ECON 110/6.0 or ECON 111/3.0.

ECON 310/3.0 Microeconomic Theory II

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (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 123/3.0 and MATH 124/3.0] or MATH 126/6.0).

ECON 320/3.0 Macroeconomic Theory II

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.

LEARNING HOURS 120 (30L;6G;60;78P)

PREREQUISITE (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 123/3.0 and MATH 124/3.0] or MATH 126/6.0).

ECON 322/3.0 Financial Markets and Risk Management

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.

LEARNING HOURS 120 (36L;12G;72P)

PREREQUISITE ECON 212/3.0 and (ECON 250/3.0 or STAT 263/3.0); MATH 120/6.0 or MATH 121/6.0 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 324/3.0.

ECON 325/3.0 International Trade Policy

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.

LEARNING HOURS 120 (36L;6G;78P)

PREREQUISITE ECON 212/3.0.

ECON 331/3.0 Economic History of North America to 1865

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.

LEARNING HOURS 120 (36L;6G;78P)

PREREQUISITE ECON 212/3.0.

ECON 332/3.0 Economic History of North America since 1865

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.

LEARNING HOURS 120 (36L;6G;78P)

PREREQUISITE ECON 212/3.0.

ECON 348/3.0 Law and Economics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ECON 212/3.0.

ECON 351/3.0 Introductory Econometrics

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.

LEARNING HOURS 120 (36L;6G;78P)

PREREQUISITE (A grade of C in ECON 250/3.0 or STAT 263/3.0) and (MATH 120/6.0 or MATH 121/6.0 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 354/3.0 Computational Methods in Economics and Finance

An introduction to numerical methods as used in economics, finance, and related fields. Topics include optimization, non-linear systems, numerical approximation, and simulation. Includes a major project where students implement economic models or replicate work found in the literature.

NOTE Programming experience is recommended but not required. Students with a strong math or computing background can contact the department for permission.

LEARNING HOURS 120 (36L;18G;66P)

PREREQUISITE ECON 255/3.0.

COREQUISITE ECON 250/3.0 or STAT 263/3.0.

ECON 360/3.0 Labour Economics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ECON 212/3.0.

ECON 361/3.0 Income Distribution and Problems of Inequality

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ECON 212/3.0.

ECON 370/3.0 Urban and Regional Economics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ECON 212/3.0.

ECON 371/3.0 Economics of Regulation

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.

LEARNING HOURS 120 (36L;6G;78P)

PREREQUISITE ECON 212/3.0.

ECON 390/3.0 Natural Resource Economics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ECON 212/3.0.

ECON 391/3.0 Topics in Environmental Economics

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.

LEARNING HOURS 120 (36L;6G;78P)

PREREQUISITE ECON 212/3.0.

ECON 411/3.0 Topics in Microeconomic Theory

Content varies from year to year. Game theory, risk, and externalities are among the topics covered in recent years.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ECON 310/3.0.

ECON 421/3.0 Topics in Macroeconomic Theory

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ECON 310/3.0 and ECON 320/3.0.

ECON 422/3.0 Monetary Economics

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.

LEARNING HOURS 120 (36L;60;78P)

PREREQUISITE ECON 310/3.0 and ECON 320/3.0.

ECON 423/3.0 Topics in Financial Economics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ECON 310/3.0 and ECON 322/3.0.

COREQUISITE ECON 351/3.0.

ECON 425/3.0 International Trade Theory and Policy

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.

LEARNING HOURS 120 (36L;6G;60;72P)

PREREQUISITE ECON 310/3.0.

ECON 426/3.0 International Macroeconomics

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.

LEARNING HOURS 120 (36L;12I;72P)

PREREQUISITE ECON 310/3.0 and ECON 320/3.0.

ECON 430/3.0 Issues in Economic History

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. Offered concurrently with ECON 831/3.0.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE 3.0 units from ECON 231/3.0; ECON 232/3.0; ECON 331/3.0; ECON 332/3.0.

COREQUISITE ECON 310/3.0 and ECON 351/3.0.

ECON 435/3.0 Development Economics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE 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

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.

LEARNING HOURS 120 (36L;6G;78P)

PREREQUISITE ECON 255/3.0 and ECON 310/3.0 and permission of the Department.

ECON 440/3.0 Public Economics

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.

LEARNING HOURS 120 (36L;6O;78P)

PREREQUISITE ECON 310/3.0.

ECON 442/3.0 Topics in Public Economics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ECON 310/3.0.

ECON 443/3.0 Issues in Microeconomic Policy

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.

LEARNING HOURS 120 (36L;18G;66P)

PREREQUISITE ECON 310/3.0.

EXCLUSION No more than 3.0 units from ECON 443/3.0 (Topic: Behavioural Neuroeconomics) and PSYC 398/3.0 (Topic: Behavioural Neuroeconomics).

ECON 445/3.0 Industrial Organization and Public Policy

An analysis of industry structure, conduct and performance in the Canadian economy, including the major features and current issues of competition policy.

LEARNING HOURS 120 (36L;6G;78P)

PREREQUISITE ECON 310/3.0.

ECON 450/3.0 Advanced Econometrics

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.

LEARNING HOURS 120 (36L;6G;78P)

PREREQUISITE ECON 351/3.0 and ECON 452/3.0 and permission of the Department.

ECON 452/3.0 Applied Econometrics

Emphasizes problems in specifying and estimating econometric models, methods available for detecting and handling these problems, and economic applications. Extensive use of matrix algebra.

LEARNING HOURS 120 (36L;12G;72P)

PREREQUISITE ECON 255/3.0 and (ECON 351/3.0 or STAT 361/3.0).

ECON 455/3.0 Mathematical Economics

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.

LEARNING HOURS 120 (36L;12G;72P)

PREREQUISITE ECON 255/3.0 and ECON 310/3.0 and permission of the Department.

ECON 480/3.0, 481/3.0, 482/3.0, 483/3.0, 484/3.0, 485/3.0, 486/3.0, 487/3.0, 488/3.0, 489/3.0

Seminars in Microeconomics

Series of seminar courses on microeconomic topics. 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 and fourth year APEC students without ECON 320 should contact the department before May 1 to obtain permission to register in this course.

LEARNING HOURS 120 (18S;18G;12I;72P)

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 (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

Seminars in Macroeconomics

Series of seminar courses on macroeconomic topics. 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 and fourth year APEC students without ECON 320 should contact the department before May 1 to obtain permission to register in this course.

LEARNING HOURS 120 (18S;18G;12I;72P)

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 (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.

LEARNING HOURS 240 (48I;192P)

PREREQUISITE Level 4 and registration in an ECON or APEC plan and permission of the Department.

EMPR 100/3.0 Introduction to Employment Relations

This is a survey course designed to introduce students to contemporary challenges and the primary academic fields in the study and practice of employment relations: Human Resource Management, Organizational Behaviour, Labour Relations, Negotiations and Conflict Resolution, Labour and Employment Law, and Workplace and Labour Market Policies.

LEARNING HOURS 120 (36L;120;72P)

EMPR 110/3.0 Workplace Communication and Interpersonal Skills

This first year course introduces students to the critical interpersonal competencies and communication skills required in contemporary workplaces. Students will gain and apply knowledge of foundational theories in communication and organizational behaviour to develop their professional written, oral, and interpersonal skills.

LEARNING HOURS 120 (36L;12G;120;60P)

EXCLUSION No more than 3.0 units from COMM 105/3.0; EMPR 110/3.0.

EMPR 200/3.0 Work and Employment Relations in Canada

This is an introductory course which focuses on the key factors which shape work and employment relations in Canada. Topics covered include aspects of labour and employment law, labour relations, human resources management, human behaviour in organizations, and labour markets and labour policies that govern workplace relations.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EMPR 210/3.0 Employment Relations and Labour Law

This introductory course will provide students a foundation to understand employment law in Canada. The course will examine the principles of employment law with a primary focus on current provincial and federal legislation affecting human resource management in a non-unionized setting.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (60O;60P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 1 course from EMPR 210/3.0; LAW 560/4.0; LAW 567/3.0.

EMPR 220/3.0 Conflict Resolution

This course overviews the nature of conflict in the workplace. Specifically, it examines the complex role that conflict resolution plays at all levels of the Canadian workplace and in the determination of terms and conditions of employment, including collective bargaining.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (48O;72P)

PREREQUISITE Level 2 or above.

EMPR 230/3.0 Managing Human Resources and Employment Relations

This course will provide an overview of the key components of an effective organizational human resource management system, running the spectrum from recruitment and selection practices that ensure that an organization is staffed appropriately, to management approaches aimed at bringing out the best in employees once hired.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 3.0 units from COMM 181/3.0; EMPR 230/3.0.

EMPR 240/3.0 Workplace Policies and Governance

The accelerating pace of market, economic, and technological change present many challenges to modern Canadian workplaces. This course examines how employers, employees, and governments seek to resolve workplace problems. By enacting workplace policies, it is hoped that workplaces maximize productivity while delivering fairness to its workforce.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EMPR 250/3.0 Managing Workplace Health, Safety, and Wellness

This course introduces students to employment relations practices and legislative frameworks related to workplace health and wellness. The course examines roles and responsibilities of employers, employees, and unions in occupational health and safety. Students will explore efforts to address stress and promote wellness, including mental health.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EMPR 260/3.0 Advancing Equity, Diversity, and Inclusion in the Workplace

The course considers the workplace policies, laws, and human resource management and labour relations practices that advance equity and diversity in the workplace. This course examines the nature and extent of diversity in the Canadian labour force and the implications for establishing and supporting equitable, diverse and productive workforces.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EMPR 320/3.0 Workplace Mediation and Alternative Dispute Resolution

This course introduces students to the various models of mediation used in the modern workplace to resolve conflicts as well as a variety of other emerging alternative dispute resolution (ADR) processes. Students are introduced to the theory, process, and practice of workplace mediation.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE EMPR 200/3.0 or EMPR 220/3.0.

EMPR 330/3.0 Strategic HR Management: Building High Performance Workplaces

High performance work systems (HPWS) refer to a series of interrelated practices in the management of human resources. In this course, students will learn how to design, implement, and manage a variety of high performance work practices in accordance with organizational strategy and culture.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE EMPR 230/3.0.

EMPR 335/3.0 Managing Employee Attitudes for Organizational Success

There is increasing recognition of the critical role of managers in shaping key employee attitudes (job satisfaction, motivation, and engagement), with important effects for organizational performance. Students will explore a range of theories and practices that are demonstrated drivers of employee attitudes and organizational success.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE EMPR 200/3.0 or EMPR 230/3.0.

EMPR 370/3.0 Human Resource Analytics

This course introduces students to the foundational logic, metrics, analysis, and interpretation needed to link human resource practices to broader indicators of business strategy and organizational performance. Students will learn to gather, analyze, and interpret HR metrics to make better decisions about managing people in organizations.

LEARNING HOURS 120 (24L;24G;12O;60P)

PREREQUISITE 3.0 units from EMPR at the 200-level.

ENGL 100/6.0 Introduction to Literary Study

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 240 (48L;24T;168P)

ENGL 160/6.0 Modern Prose Fiction

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. This course cannot be counted toward an ENGL Plan nor used as a prerequisite for upper-year ENGL courses.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE Level 2 or above, or permission of the Department.

ENGL 200/6.0 History of Literature in English

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE A grade of C in ENGL 100/6.0.

EXCLUSION No more than 6.0 units from ENGL 200/6.0; *ENGL 110/6.0*.

ENGL 206/3.0 History of the English Language

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0 or (registration in a LING Plan).

ENGL 211/6.0 Medieval European Literature

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE A grade of C in ENGL 100/6.0 or (registration in a MDVL Minor Plan).

ENGL 215/6.0 Canadian Literature

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 216/6.0 American Literature

A survey of American prose and poetry from the Puritans to the present.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 217/3.0 Postcolonial Literatures

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0 or (registration in a DEVS Plan).

ENGL 218/3.0 Introduction to Indigenous Literatures in Canada

This course examines Indigenous novels, traditional stories, poetry, short stories, and plays from various time periods, written by Métis, Inuit, and First Nations authors. We will study the themes, aesthetics, and politics of the texts, using a combination of culturally specific and pan-Indigenous approaches.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ENGL 100/6.0.

ENGL 222/3.0 Selected Women Writers Pre-1900

A survey of women writers from before 1900. The historical and geographical focus of the course may vary from year to year; for details, consult the Department.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0 or (registration in a GNDS Plan).

ENGL 223/3.0 Selected Women Writers Post-1900

A survey of women writers from after 1900. The historical and geographical focus of the course may vary from year to year; for details, consult the Department.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0 or (registration in a GNDS Plan).

ENGL 231/3.0 Special Topics in Genre I

For detailed information, consult the Department.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 232/3.0 Special Topics in Genre II

For detailed information, consult the Department.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 234/3.0 The Short Story in English

A study of this relatively modern genre with emphasis on methods of close textual analysis of European, British, and North American texts.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 235/3.0 Life Writing

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 237/3.0 Children's Literature

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 online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 238/3.0 Comics and Graphic Novels

A study of the art of graphic narrative from newspaper strips of the Golden Age to current graphic novels, comprising history, aesthetics, and close reading of graphic narrative as a form of literature.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 244/3.0 Modern British Fiction

A study of modern fiction, including works by such writers as James, Conrad, Ford, Joyce, Woolf.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

EXCLUSION No more than 6.0 units from ENGL 244/3.0; ENGL 245/3.0; ENGL 360/6.0

ENGL 245/3.0 Modern British Poetry and Drama

A study of the form and technique in modern poetry and plays by such writers as Yeats, Eliot, Auden, Shaw, Beckett.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

EXCLUSION No more than 6.0 units from ENGL 244/3.0; ENGL 245/3.0; ENGL 360/6.0.

ENGL 251/3.0 Authors in Context: Special Topics I

For detailed information, consult the department.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 252/3.0 Authors in Context: Special Topics II

For detailed information, consult the department.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 256/6.0 Shakespeare

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 online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE A grade of C in ENGL 100/6.0.

EXCLUSION No more than 6.0 units from ENGL 256/6.0; ENGL 257/3.0; ENGL 258/3.0.

ENGL 257/3.0 Elizabethan Shakespeare

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 Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

EXCLUSION No more than 6.0 units from ENGL 256/6.0; ENGL 257/3.0; ENGL 258/3.0.

ENGL 258/3.0 Jacobean Shakespeare

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

EXCLUSION No more than 6.0 units from ENGL 256/6.0; ENGL 257/3.0; ENGL 258/3.0.

ENGL 259/3.0 Global Shakespeare

A study of the dissemination of Shakespeare's plays across a range of cultures and sites from the early seventeenth century to the present, with a focus on the development of Shakespeare as a "global" author. Selected plays will be studied in historical context and in geographically diverse adaptations in theatrical, print, and electronic media.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 271/3.0 **Issues and Themes: Special Topics I**

For detailed information, consult the Department.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 272/3.0 **Issues and Themes: Special Topics II**

For detailed information, consult the Department.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 273/3.0 **Literature and the Fantastic**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

EXCLUSION No more than 3.0 units from ENGL 273/3.0; GRMN 429/3.0; LLCU 329/3.0.

ENGL 274/3.0 **Literature and War**

A study of texts that have war as their subject, examining the cultural functions war literature performs (such as recruiting, celebrating, healing, mourning, witnessing, commemorating, protesting), as well as its role in the construction of collective memory and national identity. The particular focus may vary from year to year; for detailed information, consult the department.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 277/3.0 **Literature and Gender**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0 or (registration in a GNDS Plan).

ENGL 278/3.0 **Literature and Place**

A study of English-language literature emphasizing or relating to its sense of place. Course content may vary from year to year.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 279/3.0 **Literature and Censorship**

Students will read a range of controversial books, and discuss the contexts and content of calls that they be banned. What ideas about literature, religion, and social order underpin such initiatives? Can limiting access to literature ever be justified? Authors may include Milton, Rushdie, Hitler, Twain, Nabokov, Joyce, Lee, and Morrison.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 281/3.0 **Legends of King Arthur: Medieval to Modern**

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Study Centre. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0 or (registration in a MDVL Plan).

ENGL 283/6.0 Contemporary Canadian Literature

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).

LEARNING HOURS 240 (72L;168P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 284/3.0 Issues and Themes in Canadian Literature I

A study of one particular issue or theme in Canadian literature. For detailed information, consult the Department.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 285/3.0 Issues and Themes in Canadian Literature II

A study of one particular issue or theme in Canadian literature. For detailed information, consult the Department.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 290/3.0 Seminar in Literary Interpretation

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE A grade of C in ENGL 100/6.0 and (registration in an ENGL Major or Medial Plan).

ENGL 291/3.0 Literature on Screen and Stage

A study of the relationships between literary texts written in English, from classics to contemporary popular fiction, and their adaptations in a range of media, comprising close analysis, historical and cultural investigation into national and transnational formulations of adaptation, and discussion of the processes and theories of adaptation.

NOTE Also offered at the Bader International Study Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 292/6.0 Introduction to Literary Criticism and Theory

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 293/3.0 Introductory Approaches to Cultural Studies

Introduces cultural studies from a primarily literary perspective, surveying critical approaches associated with this interdisciplinary field of study, and paying special attention to the study of popular culture and questions of aesthetic value through readings drawn from a range of pop cultural genres (such as horror, romance, crime fiction).

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 294/3.0 Cultural Studies: Theory into Practice

In-depth exploration of the cultural significance of one particular genre, issue, or theme (for instance, spy fiction, literary prizes, youth subcultures). Topics may vary from year to year; for detailed information, consult the departmental website.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ENGL 100/6.0.

ENGL 306/6.0 The Northern World: Vikings and Saxons

A survey of major literary works written in Old English and Old Norse from the ninth to the thirteenth centuries. Readings will include sagas, epics, elegies, riddles, mythology, as well as historical and religious writing. Texts will be read in translation.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE [(ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units)] or [(a GPA of 2.6) and (registration in a MDVL Plan)].

ENGL 310/6.0 Medieval Literature of the British Isles

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE [(ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units)] or [(a GPA of 2.6) and (registration in a MDVL Plan)].

ENGL 311/6.0 Middle English Literature

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE [(ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units)] or [(a GPA of 2.6) and (registration in a MDVL Plan)].

ENGL 312/6.0 Literatures and Cultures of the Medieval World

This course introduces students to major pieces of medieval literature, their cultural contexts, and associated critical paradigms. Situating texts from England in an international context illuminates the dynamic literary exchange among England, Europe, and the Islamicate cultures of the Mediterranean.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE Registration in an ENGL Major or Medial Plan and a GPA of 2.4 in all ENGL units and ENGL 200/6.0 and ENGL 290/3.0.

ENGL 315/6.0 Romance: Medieval to Early Modern

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 Edmund Spenser.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE [(ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units)] or [(a GPA of 2.6) and (registration in a MDVL Plan)].

ENGL 321/6.0 Renaissance Poetry and Prose

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 326/6.0 Shakespeare and Renaissance Drama

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 330/6.0 Restoration and 18th-Century Literature

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 335/6.0 English Drama to 1700

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 336/6.0 Early Modern Prose Fiction

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 340/6.0 Romantic Literature

An intensive study of the Romantics with emphasis on the works of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 347/6.0 American Literature and the Long 19th Century

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).

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 349/6.0 19th-Century Transatlantic Literature

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 351/6.0 Victorian Literature

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 352/6.0 Romance and Gothic

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 356/6.0 British Fiction of the 19th Century

A study of British nineteenth-century fiction featuring selected writers from Jane Austen to Thomas Hardy.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 357/6.0 **19th-Century British Literature and Visual Culture**

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 360/6.0 **Modern Literature**

A study of poetry, prose, and drama from the late nineteenth century to the mid-twentieth century.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

EXCLUSION No more than 6.0 units from ENGL 244/3.0; ENGL 245/3.0; ENGL 360/6.0.

ENGL 365/6.0 **Modern and Contemporary Poetry**

A study of poetry from the twentieth and twenty-first centuries.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 369/6.0 **Modern and Contemporary Prose Fiction**

A study of prose fiction from the twentieth and twenty-first centuries.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 370/6.0 **Contemporary Literature**

A study of poetry, prose, and drama from the mid-twentieth century to the present.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 375/6.0 **American Literature**

Studies in modern and/or contemporary American fiction, poetry, and drama.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) 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**

Studies in Canadian fiction, poetry, and literary criticism in relation to recurring concerns within Canadian cultural history.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 382/6.0 **Postcolonial Literatures in Context**

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 387/6.0 Literature and Modern Media

A study of the creative interactions between print literature and modern audio and visual media such as mass circulation newspaper, radio, film, television, and digital devices.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 389/6.0 Context North America

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 411/3.0 Topics in Medieval Literature I

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 412/3.0 Topics in Medieval Literature II

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 420/6.0 Studies in Renaissance Literature

For detailed information, consult the Department.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 421/3.0 Topics in Renaissance Literature I

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 422/3.0 Topics in Renaissance Literature II

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 431/3.0 Topics in Restoration and 18th-Century Literature I

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 432/3.0 Topics in Restoration and 18th-Century Literature II

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 436/3.0 **Group I: Special Topics I**

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 437/3.0 **Group I: Special Topics II**

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 440/6.0 **Studies in Romanticism**

For detailed information, consult the Department.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 441/3.0 **Topics in Romanticism I**

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 442/3.0 **Topics in Romanticism II**

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 446/3.0 **Topics in Literature of the Americas I**

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 447/3.0 **Topics in Literature of the Americas II**

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 450/6.0 **Studies in Victorian Literature**

For detailed information, consult the Department.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 451/3.0 **Topics in Victorian Literature I**

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 452/3.0 Topics in Victorian Literature II

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 456/3.0 Group II: Special Topics I

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 457/3.0 Group II: Special Topics II

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 461/3.0 Topics in Modern/Contemporary British Literature I

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 462/3.0 Topics in Modern/Contemporary British Literature II

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 464/6.0 Literary Modernism

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.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 465/6.0 Studies in Modern/Contemporary Canadian Literature

For detailed information, consult the Department.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 466/3.0 Topics in Modern/Contemporary Canadian Literature I

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 467/3.0 Topics in Modern/Contemporary Canadian Literature II

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (Registration in an ENGL Major or Medial Plan and a GPA of 2.4 on all ENGL units and ENGL 200/6.0 and ENGL 290/3.0) or permission of the department.

ENGL 470/6.0 Studies in Modern/Contemporary American Literature

For detailed information, consult the Department.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) 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

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 472/3.0 Topics in Modern/Contemporary American Literature II

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 476/3.0 Topics in Postcolonial Literatures I

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 477/3.0 Topics in Postcolonial Literatures II

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 480/6.0 Studies in Indigenous Literatures

For detailed information, consult the Department.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 481/3.0 Topics in Indigenous Literatures I

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 482/3.0 Topics in Indigenous Literatures II

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 486/3.0 Group III: Special Topics I

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 487/3.0 **Group III: Special Topics II**

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 488/3.0 **Group III: Special Topics III**

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 489/3.0 **Group III: Special Topics IV**

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 491/3.0 **Topics in Literary Interpretation I**

Studies in literary topics that cross over the historical boundaries between Groups I, II and III. For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 492/3.0 **Topics in Literary Interpretation II**

Studies in literary topics that cross over the historical boundaries between Groups I, II, and III. For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 493/3.0 **Topics in Literary Interpretation III**

Studies in literary topics that cross over the historical boundaries between Groups I, II, and III. For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 494/3.0 **Topics in Literary Interpretation IV**

Studies in literary topics that cross over the historical boundaries between Groups I, II, and III. For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units)

ENGL 495/6.0 **Studies in Literary Criticism and Theory**

Studies in representative critical theories from antiquity onwards, with special emphasis on modern criticism both in its theoretical and practical aspects.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 496/3.0 Topics in Literary Criticism and Theory I

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 497/3.0 Topics in Literary Criticism and Theory II

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 498/3.0 Topics in Literary Criticism and Theory III

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 499/3.0 Topics in Literary Criticism and Theory IV

For detailed information, consult the Department.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (ENGL 200/6.0 and ENGL 290/3.0) and (a GPA of 2.4 on all ENGL units) and (registration in an ENGL Major or Medial Plan).

ENGL 590/3.0 Senior Essay Option

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.

LEARNING HOURS 120 (12I;108P)

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.

ENGX 287/3.0**Unsettling Kingston/Katarokwi**

The British Army established Kingston in 1783 in the wake of defeat in the Revolutionary War. Before and since, this has been Indigenous space, named by the Hurons Ka'tarokwi. Engaging literary, geographical, and historical perspectives, this course grapples with concepts of treaty, territory, memory, and place to unsettle colonial presumptions.

LEARNING HOURS 114 (60L;60c;72P)

PREREQUISITE Level 2 or above.

ENIN 140/3.0 Design Thinking

This course teaches design thinking techniques and their application to real-life case studies. Design Thinking takes a cross-disciplinary approach wherein students from various academic and professional backgrounds engage in co-creation, peer review, online discussions, brainstorming, and prototyping activities.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (720;48P)

EQUIVALENCY *FILM 140/3.0.*

ENIN 200/3.0 Foundations of Entrepreneurship

This course delivers an introduction to the economic and organizational dimensions of innovation and entrepreneurship. Using case studies of real companies and initiatives, we'll evaluate how disruptive and incremental innovations bring about changes in the market by prompting new products and services, business models, technologies, and paradigms.

NOTE Only offered online. Consult Arts and Science Online.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (840;36P)

PREREQUISITE Level 2 or above.

ENIN 204/3.0 Publicity and Media Relations

This course develops an understanding of the basic principles, processes and applications of public relations and marketing communications in the arts and entertainment sectors, and across the creative industries. From arts marketing, fundraising, and publicity, to talent and music management, and event planning, the course covers how public relations can be applied to many fields.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (720;48P)

PREREQUISITE Level 2 or above.

ENIN 205/3.0 Innovation for STEAM

The course welcomes students from any background to collaborate and explore the overlapping practices, paradigms, and points of divergence between the arts and STEM disciplines (Science, Technology, Engineering, and Mathematics). A "STEAM" approach combines what may at first appear to be opposite methods and processes, by emphasizing the importance of creativity, collaboration, and critical analysis to art and science.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (840;36P)

PREREQUISITE Level 2 or above.

ENIN 207/3.0 Envisioning Disruptive Technologies

This course illustrates the concept of disruptive technology – where the pace of technological progress easily exceeds the rate of performance improvement that customers in a market demand. The cases we will cover highlight the implications of such innovation on the research, design, promotional, and business strategies involved.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (720;48P)

PREREQUISITE Level 2 or above.

ENIN 240/3.0 Explorations in Creativity

Students will examine four aspects of creativity – the creative person, process, product, and press – to increase the degree to which they recognize and nurture their own creative potential. Supported by interdisciplinary research and theory, students will assess the increasing importance and global context of creativity skills in the 21st century.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (840;36P)

ENIN 301/3.0 Creative Entrepreneurship

This course offers a primer on personal and organizational creativity, and is designed to support learners to develop entrepreneurial mindsets. Learners will study emerging theories of creative thinking, and develop a deep understanding of, and engagement with, discourses and methods of innovation in the creative industries.

NOTE Only offered online. Consult Arts and Science Online.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (720;48P)

PREREQUISITE Level 2 or above.

ENIN 340/3.0 **Topics in Innovation and Entrepreneurship**

Examines current innovation and entrepreneurship trends, practices, styles, theories, texts, and discourses. Through online research, assigned readings, and creative assignment, students will engage in creative exploration of innovative products, services, business models, and learn about innovative individuals.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (840;36P)

PREREQUISITE Level 2 or above.

ENIN 400/3.0 **Innovation Design Sprint**

This course is designed as an intense, short-burst, experiential learning expedition. It is an opportunity for students to practice developing innovative, effective solutions to real-world business, social, and creative problems.

NOTE Only offered online. Consult Arts and Science Online.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 108 (480;60P)

PREREQUISITE Level 3 or above and ENIN 200/3.0 and (ENIN 301/3.0 or CHEE 302/3.0).

ENSC 103/3.0 Environment and Sustainability

An interdisciplinary approach to complex environmental issues, and diverse perspectives on environmental management and sustainability. The course considers the social and scientific aspects of environmental problems and the production of environmental knowledge alongside global linkages, human health implications and barriers to sustainability.

LEARNING HOURS 120 (24L;12T;24O;60P)

EQUIVALENCY *ENSC 203/3.0.*

ENSC 200/3.0 Environmental History

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.

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

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.

LEARNING HOURS 120 (24L;12T;84P)

ENSC 290/3.0 Introduction to Ecological Economics

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.

LEARNING HOURS 120 (36L;84P)

ENSC 301/3.0 Environmental Assessment

The course explores components of environmental assessment including public consultation, scoping, alternatives, protocols, significance, trade-offs, mitigation and monitoring. Biophysical, cumulative, social, strategic and sustainability assessment through case studies highlight strengths and weaknesses of the environmental assessment process.

LEARNING HOURS 114 (12L;24G;78P)

PREREQUISITE Level 3 or above.

ENSC 305/3.0 Social Environments

This course critically examines the complex interaction of material and social processes that define our relationship with the environment. Topics focus on how environmental issues emerge as concerns, are defined by different stakeholders, and their solutions framed through political, economic, cultural, and techno-scientific discourses.

LEARNING HOURS 96 (24L;12G;60P)

PREREQUISITE Level 3 or above, or permission of the School.

ENSC 307/3.0 Marine Environmental Issues

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

This course introduces political science and public policy within the context of environmental politics, policy, and administration. The purposes of policy, the makers of policy, and the tools at their disposal will be analyzed within the institutional context of environmental policy-making.

LEARNING HOURS 132 (24L;12T;36O;60P)

PREREQUISITE Level 3 or above, or permission of the School.

ENSC 311/3.0 Applied Environmental Policy

This course investigates the ecological, social and economic dimensions of environmental policy using a comparative approach. This course will normally be offered at an international locations (e.g. BISC) thereby allowing and comparisons/contrasts between Canadian and other context-specific approaches on the role of law, governance, politics, administration and economics towards promotion of 'enlightened' environmental policy.

NOTE Only offered in the Queen's-Blyth International Studies program or at the Bader International Studies Centre, Herstmonceux.

LEARNING HOURS 120 (24L;72G;24P)

PREREQUISITE Level 3 or above, or permission of the School.

ENSC 315/3.0 Global Food Security, Agriculture, and Environment

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.

LEARNING HOURS 124 (36L;4Pc;6O;18Oc;60P)

PREREQUISITE Level 3 or above.

ENSC 320/3.0 Wildlife Issues in a Changing World

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

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.

LEARNING HOURS 150 (18L;18S;6O;108P)

PREREQUISITE Level 3 or above.

ENSC 390/3.0 Sustainability

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 391/3.0 Practical Applications in Sustainability

Application of approaches and practices of sustainability will be developed with an emphasis on individual or group projects. This course will involve sustainability efforts at a local, regional or national scale.

NOTE Only offered in the Queen's-Blyth International Studies program or at the Bader International Studies Centre, Herstmonceux.

LEARNING HOURS 120 (24L;72G;24P)

PREREQUISITE Level 2 or above.

ENSC 407/3.0 Global Water Issues

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

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 425/3.0 Ecotoxicology

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 \$20.

NOTE Course readings, assignments, exercises and lecture notes are posted on the course Moodle site.

LEARNING HOURS 126 (24L;12T;60c;84P)

RECOMMENDATION ENSC 201/3.0.

PREREQUISITE Level 4 standing and (BIOL 102/3.0 and 103/3.0) and (CHEM 112/6.0).

ENSC 430/6.0 Honours Projects in Environmental Sustainability

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 \$30.

PREREQUISITE Level 4 and registration in an ENSC Major, ENVS Medial, EBIO, ECHM, EGEO, EGPY, ELSC or ETOX Plan or permission of the School.

ENSC 471/3.0 Environmental Analysis Methods

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 permission of the School.

EXCLUSION No more than 3.0 units from CHEM 321/3.0; ENSC 471/3.0.

ENSC 480/3.0 Special Topics in Environmental Science

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

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 483/3.0 Special Topics in Environmental Studies II

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. Topic for each year will be announced in advance of course selection and will be made available on the ENSC webpage. Students are advised to consult with their academic counsellor and/or the course instructor prior to registration.

PREREQUISITE Level 3 and registration in ENSC Major, ENVS Medial, EBIO, ECHM, EGEO, EGPY, ELSC, or ETOX plan, or permission of the School.

ENSC 501/6.0 Independent Environmental Study

Independent study of an environmental topic by individuals or inter-disciplinary groups.

NOTE This course is intended for a self-motivated student with an established record of undergraduate performance, i.e. cumulative GPA of approximately 3.0. It is the responsibility of the student to secure a supervisor prior to registering in the course.

LEARNING HOURS 228 (48I;180P)

PREREQUISITE Open to students in the final year of an honours program in any discipline, and with permission of the instructor of the course and of the Department of the student's Plan.

ENSC 502/12.0 Research Project in Sustainability

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 defense.

NOTE This course is intended for a self-motivated student with an established record of undergraduate performance, i. e. cumulative GPA of approximately 3.0. It is the responsibility of the student to secure a supervisor prior to registering in the course.

LEARNING HOURS 480 (24I;456P)

PREREQUISITE Open to students in the final year of an Honours Program in any discipline, and with permission of the instructor of the course and of the department of the student's Plan.

EPID 301/3.0 Principles of Epidemiology

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.

LEARNING HOURS 117(13.5L;13.5T;6G;12O;72P)

PREREQUISITE BIOL 243/3.0 or CHEE 209/3.0 or COMM 162/3.0 or ECON 250/3.0 or GPHY 247/3.0 or KNPE 251/3.0 or NURS 323/3.0 or POLS 385/3.0 or PSYC 202/3.0 or SOCY 211/3.0 or STAT 263/3.0 or STAT 267/3.0 or STAT 269/3.0 or STAT 367/3.0 or *PHED 251/3.0*.

EXCLUSION No more than 3.0 units from BMED 270/3.0; EPID 301/3.0; HLTH 323/3.0.

EPID 401/3.0 Biostatistical Data Analysis for Life Science Students

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 263/3.0; STAT 267/3.0; STAT 367/3.0 and (Level 4 and registration in a LISC Major or Specialization Plan) and (a GPA of 2.5).

EPID 499/12.0 Research Project in Epidemiology

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 Acceptance by a supervisor required prior to registration.

NOTE Students whose research requires the care and/or handling of animals must also complete the Introductory Animal Care Course and if required the appropriate Animal Use workshops through the Office of the University Veterinarian.

LEARNING HOURS 480 (288Lb;24G;24I;144P)

PREREQUISITE Level 4 and registration in the LISC Specialization Plan and a GPA of 2.50 and (BMED 270/3.0 or EPID 301/3.0 or HLTH 323/3.0).

EXCLUSION No more than 12.0 units from ANAT 499/12.0; CANC 499/12.0; EPID 499/12.0; LISC 499/12.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHAR 499/12.0; PHGY 499/12.0, *MICR 455/6.0*.

FILM 104/3.0 **Film Form and Modern Culture to 1970**

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**

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.

LEARNING HOURS 120 (36L;24G;12O;48Oc)

EXCLUSION No more than 3.0 units from BISC 100/3.0; FILM 106/3.0.

FILM 110/6.0 **Film, Culture and Communication**

Introduction to analysis of film, television, new media and other related forms of contemporary culture. Includes classical and contemporary Hollywood cinema, Canadian film and television, alternatives in international cinema, as well as recent developments on the internet, in gaming, and in social media.

LEARNING HOURS 216 (24L;24Lb;36T;36Pc;96P)

FILM 204/3.0 **Introduction to Creative Industries**

A broad introduction and overview of different creative sectors with a focus on the current state of industry and future projections, presented through a specially curated series of in-depth discussions with key professionals.

NOTE Priority will be given to FILM, STSC, and COCA students.

LEARNING HOURS 108 (36L;24Lb;48P)

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) or (a GPA of 2.60 in BISC 100/3.0 and FILM 104/3.0).

FILM 206/3.0 **Research, Writing, and Presentation Methods**

A series of interactive presentations and lectures instructing students in research methods, argumentative writing, and the design of effective audio-visual presentations.

NOTE Priority will be given to FILM, STSC, and COCA students.

LEARNING HOURS 108 (36L;24Lb;48P)

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) or (a GPA of 2.60 in BISC 100/3.0 and FILM 104/3.0).

FILM 210/3.0 **The Horror Film**

This course examines the emergence and continuing popularity of the horror film from a global perspective. It explores the history and transformations of the genre and the ways in which the horror film has been mobilized in popular media to address larger cultural, political, and sociological issues.

NOTE Priority will be given to FILM, STSC, and COCA students.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Level 2 or above.

FILM 214/3.0 **Mobile Communications**

This course involves both media studies and production. Students will use their own mobile devices to complete a series of creative projects, while learning theoretical and practical aspects of mobile media communications.

LEARNING HOURS 108 (36L;36O;36P)

FILM 215/3.0 **Science Fiction Cinema**

This course examines the emergence and continuing popularity of the science fiction film from a global perspective. It explores the history and transformations of the genre and the ways in which science fiction film has been mobilized in popular media to address larger cultural, political, and sociological issues.

NOTE Priority will be given to FILM, STSC, and COCA students.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Level 2 or above.

FILM 216/3.0 Historical Inquiry

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.

NOTE Priority will be given to FILM, STSC, and COCA students.

LEARNING HOURS 108 (36L;24Lb;48P)

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) or (a GPA of 2.60 in BISC 100/3.0 and FILM 104/3.0).

FILM 220/3.0 Disney Pixar Dreamworks

This course offers a historical, sociological, and theoretical framing and analysis of children's animated feature films produced by major American animation studios. The course will examine these beloved childhood classics as texts that are rich with ideological and political concerns.

NOTE Priority will be given to FILM, STSC, COCA, and MDIA students.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Level 2 or above.

FILM 225/3.0 The Comedy Film

This course examines the emergence and continuing popularity of the comedy film from a global perspective. It explores the history and transformations of the genre and the ways in which comedy has been mobilized as a popular media to address larger cultural, political, and sociological issues.

NOTE Priority will be given to FILM, STSC, COCA, and MDIA students.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Level 2 or above.

FILM 226/3.0 Critical Inquiry

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.

NOTE Priority will be given to FILM, STSC, and COCA students.

LEARNING HOURS 108 (36L;24Lb;48P)

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) or (a GPA of 2.60 in BISC 100/3.0 and FILM 104/3.0).

FILM 236/3.0 Media and Cultural Studies

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Priority will be given to FILM, STSC, COCA, and MDIA students.

LEARNING HOURS 120 (36L;24Lb;24O;36P)

FILM 240/3.0 Media and Popular Culture

This course on the dynamics between media and popular culture takes an interrogative approach. It is organized around a series of questions that will introduce students to a range of key concepts in media and mass communication studies, with the goal of providing a theoretical structure to support critical analysis of contemporary cultural trends.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Priority will be given to FILM, STSC, COCA, and MDIA students.

LEARNING HOURS 108(36L;36PS;36O)

FILM 250/6.0 Fundamentals of Media Production

A foundation in media production techniques relevant to graphic, sound, and moving-image formats. Topics include project design, technical workflow, and the aesthetic and social aspects of screen-based media. Students undertake several group projects in the first term and a major video production in the second term.

NOTE Production supplies \$250. Priority will be given to students with the highest overall GPA on FILM courses, including those at the 100-level.

NOTE Students may enroll in no more than one production course per academic year: FILM 250/6.0; FILM 351/3.0; FILM 352/3.0; FILM 353/3.0; FILM 355/6.0; FILM 356/3.0; FILM 365/6.0; FILM 375/6.0; FILM 385/6.0; FILM 410/3.0; FILM 451/3.0.

LEARNING HOURS 216 (48L;24Lb;60G;24O;60P)

PREREQUISITE Registration in a FILM Major or Medial Plan, STSC or COCA Specialization.

FILM 260/3.0 Digital Media Theory and Practice

Survey of digital media theories and online mass communication practices, with emphasis on social and mobile technologies. Course considers the impact of digitalization on the creative and culture industries.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (72O;48P)

FILM 300/3.0 Hollywood: The Dream Factory

This course examines Classical Hollywood Cinema from the early 1940s until its demise at the end of the 1950s.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Priority will be given to FILM, STSC, COCA, and MDIA students.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE (Registration in a FILM Plan, STSC or COCA Specialization) or (FILM 236/3.0 or FILM 240/3.0 or FILM 260/3.0).

FILM 301/3.0 American Film in Historical Perspective

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 organizational 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.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

FILM 302/3.0 Genre

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.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

FILM 303/3.0 World Cinemas

This course offers an overview of recent filmmaking practices from various continents. Transnational cinemas explore how intimate, personal styles of filmmaking converge with theories of globalization, hybridity and remediation.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Priority will be given to FILM, STSC, COCA, and MDIA students.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE (Registration in a FILM Plan, STSC or COCA Specialization) or (FILM 236/3.0 or FILM 240/3.0 or FILM 260/3.0) or (LLCU 209/3.0 or DEVS 240/3.0) or permission of the Department.

FILM 304/3.0 Creative Industries in the 21st Century

Students will study the creative industries in global context. Course includes theoretical readings, field trips, guest lectures, and creative assignments to understand contemporary creative economies.

NOTE Students may be required to participate in a field trip in certain years. Estimated cost for bus and event admission is \$70 plus accommodation and food. See departmental webpage for more information.

LEARNING HOURS 108 (36L;24Oc;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

FILM 305/3.0 European Narrative

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.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

FILM 306/3.0 Comparative Contemporary Film in Europe

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.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

FILM 307/3.0 Classics of European Cinema

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.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

FILM 308/3.0 Popular Cultures

Students will examine recent popular culture trends, practices, styles, theories, and artifacts. Through creative assignments, online discussion, online research and readings, students will engage in creative critique of the power of the popular to shape our identities, ideologies, and cultural arrangements.

NOTE Priority will be given to FILM, STSC, COCA, and MDIA students.

LEARNING HOURS 108 (36L;24S;48P)

PREREQUISITE (Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM) or (FILM 236/3.0; FILM 240/3.0; FILM 260/3.0).

FILM 310/3.0 Reviewing World Cinema and Media Arts

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.

LEARNING HOURS 108 (36S;72P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

FILM 312/3.0 Screenwriting

Approaches to dramatic storytelling for the screen. Students analyze examples from existing works and, through practical exercises, prepare a short, original screenplay.

LEARNING HOURS 108 (36S;72P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

FILM 315/3.0 Communication Technologies and Creative Practice

Intermediate study in the evolution of digital visual communications theory and practice. Covers readings about social and technological developments in computer mediated communication, and involves creative investigation of interactive digital media through design projects.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

FILM 320/3.0 Media and the Arts

Intermediate study in relations between moving-image media and other visual or performing arts.

NOTE Priority will be given to FILM, STSC, COCA, and MDIA students.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE (Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM) or (FILM 236/3.0; FILM 240/3.0; FILM 260/3.0).

FILM 322/3.0 Canadian Film and Television to 1980

Intermediate study in history and critical analysis, from early cinema to the tax-shelter boom and the institution of Telefilm Canada.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

FILM 323/3.0 Contemporary Canadian Film and Television

Intermediate examination of film and television in Canada since 1980, taking into account regional difference and other cultural, political, and economic distinctions.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

FILM 331/3.0 Women and Film

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.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE (Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM) or (Level 3 and registration in a GNDS Plan and GNDS 120/3.0, GNDS 125/3.0).

FILM 335/3.0 Culture and Technology

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 digital media.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Priority will be given to FILM, STSC, COCA, and MDIA students.

LEARNING HOURS 108 (36L;24O;48P)

PREREQUISITE (Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM) or (FILM 236/3.0; FILM 240/3.0; FILM 260/3.0).

FILM 336/3.0 Film and Politics

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.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

FILM 337/3.0 Cinema and the City

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.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE (Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM) or (Level 3 and registration in a GPHY Plan and GPHY 101/3.0, GPHY 227/3.0, GPHY 229/3.0).

FILM 338/3.0 Contemporary Issues in Cultural Studies

An intermediate study of key concepts in cultural studies investigated through cultural practices and/or national contexts from the 1960s to the present.

NOTE Students will be required to attend a limited number of Kingston-based cultural productions over the course of the term.

NOTE Priority will be given to FILM, STSC, COCA, and MDIA students.

LEARNING HOURS 120 (36L;12G;12Oc;60P)

PREREQUISITE (Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM) or (FILM 236/3.0; FILM 240/3.0; FILM 260/3.0) or (Level 3 and registration in an ARTH, ARTV, DRAM, or MUSC Plan).

FILM 340/3.0 Advertising and Consumer Culture

This course reviews advertising strategies across a range of different media to understand the construction and functions of consumer culture and citizenship in politics, economics, art, and everyday life. We shall critically examine theories and case studies primarily from North America.

NOTE Also offered online. Consult Arts and Science Online. Learning hours may vary.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

NOTE Assignments include online and on-campus exams, online discussion forum participation requirement, short reflective essays, and some creative design work.

LEARNING HOURS 108 (36L;36O;36P)

PREREQUISITE (Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM) or (FILM 236/3.0; FILM 240/3.0; FILM 260/3.0) or (COMM 131/3.0 or COMM 231/3.0 or PSYC 342/3.0).

FILM 345/3.0 Television: Structure and Function

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.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

FILM 351/3.0 Documentary Production

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.

NOTE Students may enroll in no more than one production course per academic year: FILM 250/6.0; FILM 351/3.0; FILM 352/3.0; FILM 353/3.0; FILM 355/6.0; FILM 356/3.0; FILM 365/6.0; FILM 375/6.0; FILM 385/6.0; FILM 410/3.0; FILM 451/3.0.

LEARNING HOURS 120 (36L;24Lb;30G;30P)

PREREQUISITE Registration in a FILM Major or Medial Plan, STSC or COCA Specialization and FILM 250/6.0 and 6.0 units in FILM.

EXCLUSION No more than one course from FILM 351/3.0; FILM 355/6.0.

FILM 352/3.0 Production: Issues of Form and Structure

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.

NOTE Students may enroll in no more than one production course per academic year: FILM 250/6.0; FILM 351/3.0; FILM 352/3.0; FILM 353/3.0; FILM 355/6.0; FILM 356/3.0; FILM 365/6.0; FILM 375/6.0; FILM 385/6.0; FILM 410/3.0; FILM 451/3.0.

LEARNING HOURS 120 (36L;24Lb;60P)

PREREQUISITE Registration in a FILM Major or Medial Plan, STSC or COCA Specialization and FILM 250/6.0 and 6.0 units in FILM.

FILM 353/3.0 Narrative Production

An advanced course on the conception, planning, shooting, and editing of narrative film and television. Working in groups of four, students will produce short, professional quality videos (maximum length eight minutes) for a public screening.

NOTE Students may enroll in no more than one production course per academic year: FILM 250/6.0; FILM 351/3.0; FILM 352/3.0; FILM 353/3.0; FILM 355/6.0; FILM 356/3.0; FILM 365/6.0; FILM 375/6.0; FILM 385/6.0; FILM 410/3.0; FILM 451/3.0.

LEARNING HOURS 120 (36L;24Lb;30G;30P)

PREREQUISITE Registration in a FILM Major or Medial Plan, STSC or COCA Specialization and FILM 250/6.0 and 6.0 units in FILM.

EXCLUSION No more than one course from FILM 353/3.0; FILM 365/6.0.

FILM 355/6.0 Documentary Theory and Practice

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.

NOTE Students may enroll in no more than one production course per academic year: FILM 250/6.0; FILM 351/3.0; FILM 352/3.0; FILM 353/3.0; FILM 355/6.0; FILM 356/3.0; FILM 365/6.0; FILM 375/6.0; FILM 385/6.0; FILM 410/3.0; FILM 451/3.0.

LEARNING HOURS 240 (36L;36S;48Lb;48G;72P)

PREREQUISITE Registration in a FILM Major or Medial Plan, STSC or COCA Specialization and FILM 250/6.0 and 6.0 units in FILM.

EXCLUSION No more than one course from FILM 355/6.0; FILM 360/3.0.

FILM 356/3.0 Animation Production

A combined 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.

NOTE Students may enroll in no more than one production course per academic year: FILM 250/6.0; FILM 351/3.0; FILM 352/3.0; FILM 353/3.0; FILM 355/6.0; FILM 356/3.0; FILM 365/6.0; FILM 375/6.0; FILM 385/6.0; FILM 410/3.0; FILM 451/3.0.

LEARNING HOURS 120 (36L;24Lb;60P)

PREREQUISITE Registration in a FILM Major or Medial Plan, STSC or COCA Specialization and FILM 250/6.0 and 6.0 units in FILM.

EXCLUSION No more than one course from FILM 356/3.0; FILM 385/6.0

FILM 360/3.0 The Documentary Tradition

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.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

EXCLUSION No more than one course from FILM 355/6.0; FILM 360/3.0.

FILM 365/6.0 Narrative Theory and Practice

A course which combines study of the history and theory of narrative film and television with the production of narrative videos. Requirements will include a research essay, classroom presentations, and the conceptualization and production of a narrative video.

NOTE Students may enroll in no more than one production course per academic year: FILM 250/6.0; FILM 351/3.0; FILM 352/3.0; FILM 353/3.0; FILM 355/6.0; FILM 356/3.0; FILM 365/6.0; FILM 375/6.0; FILM 385/6.0; FILM 410/3.0; FILM 451/3.0.

LEARNING HOURS 240 (36L;36S;48Lb;48G;72P)

PREREQUISITE Registration in a FILM Major or Medial Plan, STSC or COCA Specialization and FILM 250/6.0 and 6.0 units in FILM.

EXCLUSION No more than one course from FILM 353/3.0; FILM 365/6.0.

FILM 368/3.0 Animation Theory and Criticism

A course on the history, theory, and practice of animated films. Requirements include a series of screenings, writings, and a practice based critical project.

LEARNING HOURS 108 (36L;12Oc;60P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

EXCLUSION No more than one course from FILM 368/3.0; FILM 385/6.0.

FILM 370/3.0 The Experimental Tradition

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.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM.

EXCLUSION No more than one course from FILM 370/3.0; FILM 375/6.0.

FILM 375/6.0 Experimental Theory and Practice

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.

NOTE Students may enroll in no more than one production course per academic year: FILM 250/6.0; FILM 351/3.0; FILM 352/3.0; FILM 353/3.0; FILM 355/6.0; FILM 356/3.0; FILM 365/6.0; FILM 375/6.0; FILM 385/6.0; FILM 410/3.0; FILM 451/3.0.

LEARNING HOURS 240 (36L;36S;48Lb;48G;72P)

PREREQUISITE Registration in a FILM Major or Medial Plan, STSC or COCA Specialization and FILM 250/6.0 and 6.0 units in FILM.

EXCLUSION No more than one course from FILM 370/3.0; FILM 375/6.0.

FILM 385/6.0 Animation Theory and Practice

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.

NOTE Students may enroll in no more than one production course per academic year: FILM 250/6.0; FILM 351/3.0; FILM 352/3.0; FILM 353/3.0; FILM 355/6.0; FILM 356/3.0; FILM 365/6.0; FILM 375/6.0; FILM 385/6.0; FILM 410/3.0; FILM 451/3.0.

LEARNING HOURS 240 (36L;36S;48Lb;48G;72P)

PREREQUISITE Registration in a FILM Major or Medial Plan, STSC or COCA Specialization and FILM 250/6.0 and 6.0 units in FILM.

EXCLUSION No more than one course from FILM 368/3.0; FILM 385/6.0.

EXCLUSION No more than one course from FILM 356/3.0; FILM 385/6.0.

FILM 388/3.0 Indigenous Film and Media

This course offers a journey into Indigenous and Inuit film, produced by Indigenous filmmakers from the Americas, Northern Europe, and Australia. Topics such as Indigenous methodologies and aesthetics, Indigenous feminism, decolonization, self-recognition, language revitalization, and cultural reappropriation will be explored.

NOTE Priority will be given to FILM, STSC, COCA, and INDG students.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE (Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM) or (Level 3 and registration in an INDG Plan and DEVS 220/3.0 and DEVS 221/3.0).

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.

LEARNING HOURS 120 (120I)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 12.0 units in FILM and permission of the Department.

FILM 400/3.0 Special Topics in Film, Media, and Cultural Studies

An advanced course in developing expertise in research and critical writing concerning contemporary world cinema, media arts, and other cultural phenomena.

NOTE Students will be asked to view material and visit exhibitions outside of class time.

LEARNING HOURS 120 (36L;24Lb;12G;12Oc;36P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 30.0 units in FILM or permission of the Department.

FILM 402/3.0 Research Seminar and Workshop

This research and workshop based course will focus on a wide variety of research practices. Queen's faculty members and visiting speakers will give guest talks on their creative works, research practices and methodologies, accessing archival material, and on making creative and practical research available beyond the academic environment.

LEARNING HOURS 120 (36L;48O;36Oc)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 30.0 units in FILM or permission of the Department.

FILM 410/3.0 Video Production for Digital Media

Creative investigation of media, culture, and technology, focused through the medium of video from its invention to its current digital forms. Practical experiments will be guided by critical texts and case studies that contextualize video-based practices in a variety of fields.

NOTE Students may enroll in no more than one production course per academic year: FILM 250/6.0; FILM 351/3.0; FILM 352/3.0; FILM 353/3.0; FILM 355/6.0; FILM 356/3.0; FILM 365/6.0; FILM 375/6.0; FILM 385/6.0; FILM 410/3.0; FILM 451/3.0.

LEARNING HOURS 120 (36L;24Lb;60P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and FILM 250/6.0 and 24.0 units in FILM.

FILM 415/3.0 Contemporary Theory: Special Topic

Advanced seminar on one or more approaches to cinema and culture, based on a selection of writings and related screenings.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 30.0 units in FILM or permission of the Department.

FILM 422/3.0 Canadian Cinema: Special Topic

Advanced seminar on specific area of research and study selected by the instructor. Subjects have included Québécois cinema, film and mass culture in Canada.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 30.0 units in FILM or permission of the Department.

FILM 425/3.0 Advanced Film Criticism

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.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 30.0 units in FILM or permission of the Department.

FILM 430/3.0 Authorship: Special Topic

Advanced seminar on authorship and analysis, usually concerning the work of one or two filmmakers.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 30.0 units in FILM or permission of the Department.

EXCLUSION No more than one course from FILM 400/3.0-001 (2014 onward); FILM 430/3.0.

FILM 435/3.0 Culture and Representation: Special Topic

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.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 30.0 units in FILM or permission of the Department.

EXCLUSION No more than one course from FILM 400/3.0-003 (2014 onward); FILM 435/3.0.

FILM 440/3.0 Non-narrative Film: Special Topic

Advanced seminar on selected areas of documentary or experimental cinemas. Subjects have included politically committed documentary in Canada; the anti-documentary.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 30.0 units in FILM or permission of the Department.

EXCLUSION No more than one course from FILM 400/3.0-005 (2014 onward); FILM 440/3.0.

FILM 445/3.0 Narrative Film: Special Topic

Advanced seminar on an area of narrative cinema, generally concerning a selection of feature-length films. Subjects have included international films of the 1990s.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 30.0 units in FILM or permission of the Department.

FILM 450/3.0 The Business of Media

A 12-week course that serves as a general primer on the current business of media in Canada as it pertains to narrative storytelling. Students explore business considerations throughout the production cycle, from development to production to distribution and marketing, as well as examine various different career paths in media.

LEARNING HOURS 108 (36L;24Oc;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and FILM 250/6.0 and 24.0 units in FILM or permission of the Department.

FILM 451/3.0 Production: Special Topic

Advanced seminar/workshop in an area of film or video production, generally involving intensive analysis of existing work and practical assignments.

NOTE Students may enroll in no more than one production course per academic year: FILM 250/6.0; FILM 351/3.0; FILM 352/3.0; FILM 353/3.0; FILM 355/6.0; FILM 356/3.0; FILM 365/6.0; FILM 375/6.0; FILM 385/6.0; FILM 410/3.0; FILM 451/3.0.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Major or Medial Plan, STSC or COCA Specialization and FILM 250/6.0 and 24.0 units in FILM.

FILM 455/3.0 Cross-Platform Storytelling

A practical special topic course that explores how a single story can be told across different popular media with special attention to emerging platforms and technologies, from graphic novels to video games, augmented reality to virtual reality.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 30.0 units in FILM or permission of the Department.

FILM 456/3.0 The Video Essay

This course will introduce students to the "Video Essay", a form of film and media study which combines textual or language based elements of conventional scholarly analysis with relevant audio-visual materials. Student video essay productions will use the essential component parts of media work directly in the analytical and production process.

NOTE Priority will be given to FILM, STSC, COCA, and MDIA students.

LEARNING HOURS 108 (36L;24Lb;48P)

PREREQUISITE Registration in a FILM Plan, STSC or COCA Specialization and 30.0 units in FILM or permission of the Department.

FILM 460/6.0 Major Project

Seminar that draws on students' previous work to enhance advanced research, production and writing for final project in creative writing, criticism, journalism, production and/or curating and programming film, media, and digital culture. Topics from theory, criticism, and history of film, media, digital culture, film festivals, media arts exhibitions and museums will be addressed to suit individuals. Examples from narrative, documentary, experimental film or digital media art will be analyzed. Student projects will be published online and/or exhibited at the new Isabel Bader Centre for the Performing Arts.

NOTE Open to FILM Major students only.

LEARNING HOURS 228 (36L;36G;36O;120Oc)

PREREQUISITE Registration in a FILM Major and 30.0 units in FILM or permission of the Department.

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.

NOTE To use Film and Media video equipment the student must have completed FILM 250/6.0.

PREREQUISITE Registration in a FILM Major or Medial Plan, STSC or COCA Specialization and 30.0 units in FILM or permission of the Department.

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.

NOTE To use Film and Media video equipment the student must have completed FILM 250/6.0.

PREREQUISITE Registration in a FILM Major or Medial Plan, STSC or COCA Specialization and 30.0 units in FILM or permission of the Department.

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.

NOTE To use Film and Media video equipment the student must have completed FILM 250/6.0.

PREREQUISITE Registration in a FILM Major or Medial Plan, STSC or COCA Specialization and 30.0 units in FILM or permission of the Department.

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.

NOTE To use Film and Media video equipment the student must have completed FILM 250/6.0.

PREREQUISITE Registration in a FILM Major or Medial Plan, STSC or COCA Specialization and 30.0 units in FILM or permission of the Department.

FREN 106/3.0 Communication et culture I

This online French course is aimed at students with little or no knowledge of French and is designed to provide them with basic language skills to enable them to understand and use familiar everyday expressions and basic phrases in everyday situations.

NOTE Only offered online. Consult Arts and Science Online.

NOTE Not available for credit towards any plan in FREN.

NOTE Students with a higher level of French than beginner speakers cannot enrol in this course, and will need to sign a solemn declaration to this effect at the start of the course.

LEARNING HOURS 144 (132O;12P)

EQUIVALENCY *FREN P16/3.0.*

ONE-WAY EXCLUSION May not be taken with or after FREN 107/3.0; FREN 111/3.0; FREN 112/3.0; FREN 118/3.0; FREN 150/6.0; FREN 219/3.0; FREN 320/3.0; *FREN P10/6.0; FREN P11/3.0; FREN P12/3.0; FREN P17/3.0; FREN 100/6.0; FREN 101/3.0; FREN 102/3.0; FREN 110/6.0.*

FREN 107/3.0 Communication et culture II

This online French course is designed for students with a basic knowledge of French, to supplement their language skills by enabling them to engage in everyday interactions. For students with three years of high school French or equivalent.

NOTE Only offered online. Consult Arts and Science Online.

NOTE Not available for credit towards any plan in FREN.

NOTE Students with a higher level of French than false beginner speakers cannot enrol in this course, and will need to sign a solemn declaration to this effect at the start of the course.

LEARNING HOURS 144 (132O;12P)

EQUIVALENCY *FREN P17/3.0.*

ONE-WAY EXCLUSION May not be taken with or after FREN 111/3.0; FREN 112/3.0; FREN 118/3.0; FREN 150/6.0; FREN 219/3.0; FREN 320/3.0; *FREN P10/6.0, FREN P11/3.0; FREN P12/3.0; FREN 100/6.0; FREN 101/3.0; FREN 102/3.0; FREN 110/6.0.*

FREN 111/3.0 Révision de la grammaire I

Review of the French language in the North American context: written and oral exercises, compositions, short readings. Emphasis on grammar and vocabulary.

NOTE Not available for credit towards any plan in FREN

LEARNING HOURS 120 (36L;84P)

EXCLUSION No more than 6.0 units from *FREN P10/6.0; FREN P11/3.0; FREN P12/3.0; FREN 111/3.0; FREN 112/3.0.*

ONE-WAY EXCLUSION May not be taken with or after FREN 112/3.0; FREN 118/3.0; FREN 150/6.0; FREN 219/3.0; FREN 320/3.0; *FREN P12/3.0; FREN 100/6.0; FREN 101/3.0; FREN 102/3.0; FREN 110/6.0.*

EQUIVALENCY *FREN P11/3.0.*

FREN 112/3.0 Révision de la grammaire II

Review of the French language in the North American context: written and oral exercises, compositions, short readings. Emphasis on grammar and vocabulary.

NOTE Not available for credit towards any plan in FREN

LEARNING HOURS 120 (36L;84P)

EXCLUSION No more than 6.0 units from *FREN P10/6.0; FREN P11/3.0; FREN P12/3.0; FREN 111/3.0; FREN 112/3.0.*

ONE-WAY EXCLUSION May not be taken with or after FREN 118/3.0; FREN 150/6.0; FREN 219/3.0; FREN 320/3.0; *FREN 100/6.0; FREN 101/3.0; FREN 102/3.0; FREN 110/6.0.*

EQUIVALENCY *FREN P12/3.0.*

FREN 118/3.0 Communication et culture III

This online French course is designed for students who have completed beginner level French. Students will further develop their written and oral communication skills as well as acquire the means to competently engage in a range of everyday common social and professional situations.

NOTE Only offered online. Consult Arts and Science Online.

NOTE Not available for credit towards any Plan in FREN.

NOTE Students who are fluent French speakers cannot enrol in this course, and will need to sign a solemn declaration to this effect at the start of the course.

LEARNING HOURS 120 (72O;48P)

ONE-WAY EXCLUSION May not be taken after FREN 150/6.0 or *FREN 100/6.0.*

FREN 150/6.0 **Français intermédiaire**

Practice in reading, writing, grammar review, and literary analysis.

NOTE Placement test recommended prior to registration. For information go to:

<http://www.queensu.ca/french/undergraduatestudents/placementtest.html>.

NOTE Also offered at the Bader International Study Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 216 (48L;24T;36O;108P)

EQUIVALENCY *FREN 100/6.0.*

EXCLUSION No more than 6.0 units from FREN 150/6.0; *FREN 100/6.0; FREN 101/3.0; FREN 102/3.0; FREN 110/6.0.*

FREN 215/6.0 **Introduction à la linguistique française**

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.

LEARNING HOURS 264 (48L;24G;192P)

PREREQUISITE A grade of B- in [FREN 150/6.0 or (*FREN 101/3.0* and *FREN 102/3.0*) or *FREN 100/6.0*] or a grade of C in *FREN 110/6.0.*

FREN 219/3.0 **Communication et culture IV**

For students with immersion background.

LEARNING HOURS 114 (36L;18Lb;60P)

ONE-WAY EXCLUSION May not be taken with or after FREN 320/3.0.

FREN 225/3.0 **French in the Professional Workplace**

This course is designed to provide students with foundational French oral and written skills to successfully navigate through a range of professional workplace environments. It will expose students to professional situations and enable them to actively engage in real life scenarios; from applying and interviewing for a position when entering the workforce, to chairing meetings and conducting routine business as an active member of a professional organization.

NOTE This course is not intended for fluent French speakers.

NOTE Not available for credit towards any Plan in FREN.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (30O;90P)

PREREQUISITE FREN 118/3.0 or FREN 150/6.0.

FREN 227/3.0 **Le cinéma et la civilisation française**

A course in contemporary French civilization as seen through various media: books, newspapers, and the cinema.

LEARNING HOURS 144 (36L;36Lb;72P)

PREREQUISITE FREN 150/6.0 or (*FREN 101/3.0* and *FREN 102/3.0*) or *FREN 100/6.0* or *FREN 110/6.0.*

FREN 230/3.0 **Analyse textuelle et étude de la langue**

The methodology of literary analysis. Assignments may include textual analysis and dissertation.

LEARNING HOURS 120 (30L;6O;84P)

PREREQUISITE FREN 150/6.0 or *FREN 100/6.0* or (*FREN 101/3.0* and *FREN 102/3.0*) or *FREN 110/6.0.*

EXCLUSION No more than one course from FREN 230/3.0; *FREN 220/6.0; FREN 221/6.0.*

FREN 236/3.0 **French for Healthcare Professionals**

This course will provide learners with work-related vocabulary as well as the written and oral communication skills to effectively engage in a range of bilingual professional environments and situations pertaining to healthcare. Throughout the course, learners work in small groups on collaborative projects to simulate real world situations.

NOTE Language is the principal focus of this course. Prior experience or professional knowledge in the field is not necessary.

NOTE This course is not intended for fluent French speakers.

NOTE Not available for credit towards any Plan in FREN.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (30O;90P)

PREREQUISITE FREN 225/3.0.

FREN 237/3.0 French for Government Professionals

The course will provide learners with technical vocabulary as well as the written and oral French communication skills to effectively engage in a range of situations, activities, and tasks within government workplaces. Collaborative group work and assignments will simulate real world situations.

NOTE Language is the principal focus of this course. Prior experience or professional knowledge in the field is not necessary.

NOTE This course is not intended for fluent French speakers.

NOTE Not available for credit towards any Plan in FREN.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (300;90P)

PREREQUISITE FREN 225/3.0.

FREN 238/3.0 French for Legal Professionals

The course will provide learners with technical vocabulary as well as the French written and oral language skills to effectively communicate with French speaking clients and conduct routine legal communication in French. Collaborative group work and assignments will simulate real world situations.

NOTE Language is the principal focus of this course. Prior experience or professional knowledge in the field is not necessary.

NOTE This course is not intended for fluent French speakers.

NOTE Not available for credit towards any Plan in FREN.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (300;90P)

PREREQUISITE FREN 225/3.0.

FREN 241/3.0 Histoire culturelle et littéraire de l'ancien Régime

An introduction to French literature from the Middle Ages to the end of the Eighteenth Century stressing how tensions generated between different ideas within a period determine the aesthetic, philosophical, and literary choices made by major authors.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE FREN 150/6.0 or *FREN 100/6.0* or (*FREN 101/3.0* and *FREN 102/3.0*) or *FREN 110/6.0*.

EXCLUSION No more than one course from FREN 241/3.0; *FREN 212/6.0*.

FREN 250/3.0 Grammaire avancée

A detailed analysis of French grammar based on the description of language structures.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE FREN 150/6.0 or *FREN 100/6.0* or (*FREN 101/3.0* and *FREN 102/3.0*) or *FREN 110/6.0*.

EXCLUSION No more than 3.0 units from FREN 250/3.0; *FREN 344/3.0*.

FREN 283/3.0 Le français des affaires

An introduction to business French, including discussions of related cultural and economic issues.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE FREN 150/6.0 or (*FREN 101/3.0* and *FREN 102/3.0*) or *FREN 100/6.0* or *FREN 110/6.0*.

FREN 285/3.0 Cinéma et société: aspects culturels de la francophonie

A course focusing on the socio-cultural and political aspects of African and Caribbean cinemas.

LEARNING HOURS 120 (24L;12LB;84P)

PREREQUISITE FREN 150/6.0 or (*FREN 101/3.0* and *FREN 102/3.0*) or *FREN 100/6.0* or *FREN 110/6.0*.

FREN 304/3.0 Introduction à la littérature française du Moyen Age

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 essays and tests.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (*FREN 230/3.0* and *FREN 241/3.0*) or (*FREN 212/6.0* and *FREN 220/6.0*) or *FREN 221/6.0*.

EXCLUSION No more than 3.0 units from FREN 304/3.0; *FREN 404/3.0*.

FREN 305/3.0 Le théâtre depuis 1945

A detailed study of selected plays from French theatre since 1945. Visual presentations. Semiotic approach. Cocteau, Duras, Beckett, Ionesco, Sarraute, Sartre, Koltès. *Travaux pratiques* include essays and tests.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (FREN 212/6.0 and FREN 220/6.0) or FREN 221/6.0.

EXCLUSION No more than 3.0 units from FREN 305/3.0; FREN 417/3.0.

FREN 306/3.0 Le théâtre classique

A detailed study of plays by Corneille, Racine, Molière. *Travaux pratiques* include essays and tests.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (FREN 212/6.0 and FREN 220/6.0) or FREN 221/6.0.

EXCLUSION No more than 3.0 units from FREN 306/3.0; FREN 418/3.0.

FREN 315/3.0 Littérature française de la Renaissance

A study of representative literary works of the 15th and 16th centuries, including Villon, Montaigne, Rabelais. *Travaux pratiques* include essays and tests.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (FREN 212/6.0 and FREN 220/6.0) or FREN 221/6.0.

EXCLUSION No more than 3.0 units from FREN 315/3.0; FREN 405/3.0.

FREN 320/3.0 Communication et culture V

For advanced students.

LEARNING HOURS 114 (36L;18Lb;60P)

FREN 323/3.0 La littérature française du 19e siècle

A detailed study of major 19th century writers. *Travaux pratiques* include essays and tests.

LEARNING HOURS 120 (33L;3Pc;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (FREN 212/6.0 and FREN 220/6.0) or FREN 221/6.0.

EXCLUSION No more than 3.0 units from FREN 323/3.0; FREN 423/3.0.

FREN 324/3.0 Le roman français du 20e siècle

A detailed study of selected novels from 20th-century French authors until 1945. Beauvoir, Camus, Céline, Cocteau, Colette, Gide, Proust, Sartre. *Travaux pratiques* include essays and tests.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (FREN 212/6.0 and FREN 220/6.0) or FREN 221/6.0.

EXCLUSION No more than 3.0 units from FREN 324/3.0; FREN 424/3.0.

FREN 325/3.0 Littérature contemporaine

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. *Travaux pratiques* include essays and tests.

LEARNING HOURS 120 (33L;3Pc;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (FREN 212/6.0 and FREN 220/6.0) or FREN 221/6.0.

EXCLUSION No more than 3.0 units from FREN 325/3.0; FREN 425/3.0.

FREN 327/3.0 Le Cinéma aujourd'hui: Études thématiques

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (FREN 212/6.0 and FREN 220/6.0) or FREN 221/6.0.

EXCLUSION No more than 3.0 units from FREN 327/3.0; FREN 427/3.0.

FREN 330/3.0 Rédaction et style I

A presentation of the principles of textual production in French as applied in the production of various types of texts.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE FREN 250/3.0 or (*FREN 212/6.0* and *FREN 220/6.0*). or *FREN 221/6.0*.

EXCLUSION No more than 3.0 units from FREN 330/3.0; *FREN 201/3.0*.

EXCLUSION No more than 3.0 units from FREN 331/3.0; *FREN 202/3.0*.

FREN 331/3.0 Rédaction et style II

Acquisition of a deeper knowledge of the principles of textual production, with particular emphasis on the use of computer-based grammatical and lexicographic tools, and an examination of the stylistic constraints on textual production.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE FREN 330/3.0 or *FREN 201/3.0* or *FREN 202/3.0*.

FREN 335/3.0 Le roman québécois

A detailed study of representative Québécois authors since 1965. *Travaux pratiques* include essays and tests.

LEARNING HOURS 132 (24L;12S;24I;72P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (*FREN 212/6.0* and *FREN 220/6.0*) or *FREN 221/6.0*.

EXCLUSION No more than 3.0 units from FREN 335/3.0; *FREN 435/3.0*.

FREN 342/3.0 Histoire culturelle et littéraire de la France moderne et contemporaine

An intro. to French 19th Century and contemporary literature. More specifically focused on literature the course will also explore predominant trends in different media such as painting and cinema. Drawing on critical, historical, and literary theory, students will acquire the skills to assess how specific works reflect or relate to the aesthetic, literary, and philosophical trends of their time.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (*FREN 212/6.0* and *FREN 220/6.0*) or *FREN 221/6.0*.

FREN 343/3.0 Histoire culturelle et littéraire de la francophonie et du Québec

An introduction to the history of ideas and cultural evolution in French Canada, African and Caribbean culture and literature, from the colonial period to the present day.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (*FREN 212/6.0* and *FREN 220/6.0*) or *FREN 221/6.0*.

FREN 350/3.0 Littératures autochtones comparés en Amérique du Nord

An examination of comparative approaches to Indigenous literatures across North America. Questions of translation, tribal specificity, literary nationalism, inter- and trans-Indigenous orientations are examined in relation to a diversity of works by Indigenous scholars, writers, filmmakers, and other artists and thinkers.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE FREN 230/3.0 and FREN 241/3.0.

FREN 351/3.0 Écrits de la Francophonie

A study of representative works by African and the Caribbean writers. *Travaux pratiques* include essays and tests.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (*FREN 212/6.0* and *FREN 220/6.0*) or *FREN 221/6.0*.

EXCLUSION No more than 3.0 units from FREN 351/3.0; *FREN 451/3.0*.

FREN 352/3.0 Vers de nouveaux récits pour Haiti: Une introduction aux études haïtiennes

In this course, which aims to provide a solid undergraduate-level foundation in several key figures, texts and concepts in Haitian Studies, students will learn to address some common misunderstandings about Haiti by exploring the political documents of its revolutionary period and literary representations of its popular culture and vodou.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE FREN 230/3.0 and FREN 241/3.0.

FREN 353/3.0 Phonétique et phonologie du français

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).

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or *FREN 212/6.0* 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 de la langue française

A study of the major steps in the evolution of French from Latin to the modern day. Subjects treated include: the languages upon which French is based; the major steps in the development of French; French as a social institution, as an official language and as a living language; the Francophone world.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE FREN 215/6.0 or (FREN 230/3.0 and FREN 241/3.0) or (*FREN 212/6.0* and *FREN 220/6.0*) or *FREN 221/6.0*.

FREN 373/3.0 Syntaxe du français canadien

An examination of the syntax of standard French and of Canadian French from a generative grammar perspective. The study of syntax will be explained, as well as the various properties of language that form the object of syntactic analysis. Discovery of what a grammatical theory can show us about the grammar of French and consider some specific questions raised by the syntax of Canadian French.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE FREN 215/6.0 or (FREN 230/3.0 and FREN 241/3.0) or (*FREN 212/6.0* and *FREN 220/6.0*) or *FREN 221/6.0*.

FREN 387/3.0 Écrits du 17e siècle

Seventeenth-century texts 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*.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (*FREN 212/6.0* and *FREN 220/6.0*) or *FREN 221/6.0*.

EXCLUSION No more than 3.0 units from FREN 387/3.0; *FREN 487/3.0*.

FREN 388/3.0 Le Roman du 18e siècle

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (*FREN 212/6.0* and *FREN 220/6.0*) or *FREN 221/6.0*.

EXCLUSION No more than 3.0 units from FREN 388/3.0; *FREN 488/3.0*.

FREN 390/3.0 Genre et littérature

A study of discourse on and by women in representative works (primarily the novel). *Travaux pratiques* may include essays and tests.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (*FREN 212/6.0* and *FREN 220/6.0*) or *FREN 221/6.0*.

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

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.

LEARNING HOURS 132 (24L;12S;24I;72P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (*FREN 212/6.0* and *FREN 220/6.0*) or *FREN 221/6.0*.

EXCLUSION No more than 3.0 units from FREN 391/3.0; *FREN 491/3.0* (formerly *FREN 407/3.0*).

FREN 392/3.0 Paris Through Literature, Painting, Cinema, and Photography

Students will explore Paris through the diverse, creative, and anecdotal perspectives offered by writers, filmmakers, painters, photographers, and other artists. Such figures have played important roles in significant literary and artistic trends and movements, and have portrayed Paris in a variety of perspectives.

NOTE Only offered online. Consult Arts and Science Online.

NOTE Taught in English together with FRST 290/3.0. Students concentrating in French submit written assignments, tests, and examinations in French.

LEARNING HOURS 120 (48O;72P)

EQUIVALENCY *FREN 290/3.0; IDIS 290/3.0.*

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (*FREN 212/6.0 and FREN 220/6.0*) or *FREN 221/6.0.*

EXCLUSION No more than 3.0 units from FREN 392/3.0; FRST 290/3.0; *FREN 290/3.0; IDIS 290/3.0.*

FREN 393/3.0 Morphologie et lexicologie du français

Introduction to basic notions in French lexicology and morphology. The structure of words. Derivational and inflectional morphology. The structure of the lexicon.

LEARNING HOURS 132 (24L;12G;96P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (*FREN 212/6.0 and 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 394/3.0 Montréal Interculturel: une métropole en représentation

Montreal is a converging point for immigrants. We will explore significant texts that represent this diversity, from a migrant perspective or one of majority, and the political implications that arise in a pluralistic context, seeking to identify the model of interculturalism, and its links with notions such as hybridity adopted by migrant writers.

NOTE This course is offered in French. Students registered in FREN 394/3.0 will read texts in their French original version and write their quizzes, essay and exam in French. Those registered in FRST 294/3.0 may read texts in translation, and write their quizzes, essay and exam in English. English version of PowerPoint presentations will be available on onQ. Students registered should understand oral French at an intermediate level.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (*FREN 212/6.0 and FREN 220/6.0*) or *FREN 221/6.0.*

EXCLUSION No more than 3.0 units from FREN 394/3.0; FRST 294/3.0.

FREN 395/3.0 Textes et contextes de l'ancienne France

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.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (*FREN 212/6.0 and FREN 220/6.0*) or *FREN 221/6.0.*

FREN 396/3.0 Cinéma et culture québécoise

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.

LEARNING HOURS 136 (36L;60;84P)

PREREQUISITE (FREN 230/3.0 and FREN 241/3.0) or (*FREN 212/6.0 and FREN 220/6.0*) or *FREN 221/6.0.*

EXCLUSION No more than 3.0 units from *FREN 295/3.0; FREN 396/3.0; FREN 496/3.0.*

FREN 450/3.0 Travaux pratiques: stylistique et traduction

A practical translation course. Review exercises in comparative stylistics, written and oral thèmes.

LEARNING HOURS 132 (24L;12G;96P)

EQUIVALENCY *FREN 444/3.0.*

PREREQUISITE (FREN 250/3.0 and FREN 330/3.0) or a grade of C in *FREN 344/3.0.*

FREN 498/6.0 Séminaire de lecture

The goal of this seminar is to enable students pursuing the final year of a Major in French Studies to apply the methods and theory acquired over the course of their program to a corpus of works not previously covered by their program. In a seminar framework, under the guidance of a professor, they will, as a group, present and discuss the fruits of their readings and the questions raised by these readings. In addition, at the end of each of the two terms, they will write an exam designed to measure their ability to consider, both broadly and deeply, the texts they have read, to synthesize their reflections in a theoretically coherent fashion, and to express their findings clearly and coherently.

LEARNING HOURS 240 (36S;204P)

PREREQUISITE Level 4 and registration in a FREN Major or Medial Plan.

FREN 499/6.0 Apprentissage et enseignement du français langue seconde

Explores teaching French as a second language in relation to didactic methods, active learning, cultural content, and pedagogic approaches through both seminars and a teaching practicum in FREN 150/6.0 (formerly *FREN 100/6.0*).

NOTES This course is exclusively for Concurrent Education students who have completed the Con-Ed prerequisites in the Faculty of Education and who have completed an application and been interviewed in the spring prior to the year in which they will be enrolled in the course.

LEARNING HOURS 240 (48L;24S;48T;120P)

PREREQUISITE PROF 110/1.5 and [{PROF 210/1.5 or CURR 395/3.0} and PRAC 210/1.5] or PROF 211/1.5 and PRAC 211/1.5]; and (FREN 230/3.0 and FREN 241/3.0 and {FREN 342/3.0 or FREN 343/3.0}) or *FREN 220/6.0* and *FREN 212/6.0*; *FREN 221/6.0*.

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.

LEARNING HOURS 120 (24I;96P)

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.

LEARNING HOURS 120 (24I;96P)

FREN 503/3.0 Recherches en linguistique

Research in a particular area of French Linguistics under the supervision of a professor.

LEARNING HOURS 120 (24I;96P)

PREREQUISITE FREN 215/6.0 or (FREN 353/3.0 and FREN 373/3.0) and permission of the Chair of Undergraduate Studies and approval of the supervisor.

FRST 105/3.0 Reading French

An online course for students with little or no previous knowledge of French. Learners will identify the key elements of a French sentence, the structure of sentences, and the devices used to combine sentences and paragraphs in French, as well as translate texts from subject areas including humanities, social sciences, business, and sciences. Explanations are given in English; all materials to be analyzed are in French.

NOTE Only offered online. Consult Arts and Science Online.

NOTE Not available for credit towards any plan in FREN.

NOTE Students with a higher level of French than beginner speakers cannot enrol in this course, and will need to sign a solemn declaration to this effect at the start of the course.

LEARNING HOURS 120 (900;30P)

ONE-WAY EXCLUSION May not be taken with or after any FREN courses except FREN 106/3.0.

FRST 125/3.0 Basic Business French

This online course is an introduction to the language of business in French. Students will learn how to understand texts in the areas of administrative correspondence, personnel issues (CV, covering letter, hiring process), basic financial reporting, and advertising. Explanations are given in English; all materials to be analyzed are in French.

NOTE Only offered online. Consult Arts and Science Online.

NOTE Not available for credit towards any plan in FREN. With permission of the Department, course may be taken jointly with FREN 118/3.0.

NOTE Students with a higher level of French than beginner speakers cannot enrol in this course, and will need to sign a solemn declaration to this effect at the start of the course.

LEARNING HOURS 120 (960;24P)

PREREQUISITE FRST 105/3.0 or FREN 107/3.0 or permission of the Department.

ONE-WAY EXCLUSION May not be taken with or after any FREN or FRST courses except FRST 105/3.0, FREN 106/3.0 (formerly *FREN P16/3.0*) or FREN 107/3.0 (formerly *FREN P17/3.0*).

FRST 290/3.0 Paris Through Literature, Painting, Cinema, and Photography

Students will explore Paris through the different perspectives offered by writers, filmmakers, painters, photographers, and other artists who have played an important role in significant literary and artistic trends and movements. The course covers literature, painting, and film starting at the end of the 19th century and extends to the present.

NOTE Only offered online. Consult Arts and Science Online.

NOTE Students who are registered in a French Plan must register in FREN 392/3.0 and complete their assignments in the French language.

LEARNING HOURS 120 (480;72P)

EQUIVALENCY *FREN 290/3.0; IDIS 290/3.0.*

EXCLUSION No more than 3.0 units from FREN 392/3.0; FRST 290/3.0; *FREN 290/3.0; IDIS 290/3.0.*

FRST 294/3.0 Montreal: Interculturalism in Representation

Montreal is a converging point for immigrants. We will explore significant texts that represent this diversity, from a migrant perspective or one of majority, and the political implications that arise in a pluralistic context, seeking to identify the model of interculturalism, and its links with notions such as hybridity adopted by migrant writers.

NOTE This course is offered in French. Students registered in FREN 394/3.0 will read texts in their French original version and write their quizzes, essay and exam in French. Those registered in FRST 294/3.0 may read texts in translation, and write their quizzes, essay and exam in English. English version of PowerPoint presentations will be available on onQ. Students registered should understand oral French at an intermediate level. The Department recommends students take a placement test.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or permission of the Department.

EXCLUSION No more than 3.0 units from FREN 394/3.0; FRST 294/3.0.

GEOL 102/3.0 Gemstones: Their Art, History and Science

Gemstones have played an important role in society throughout history. The role of gemstones and other precious materials will be illustrated through the study of works of art and popular literature. The physical properties that make gems attractive are explained. Gemstone marketing and ethical considerations of mining methods will be explored.

LEARNING HOURS 120 (24L;12T;36O;48P)

GEOL 104/3.0 The Dynamic Earth

Introduction to the internal structure of the Earth and the processes that have shaped its surface. Global tectonics and continental movement, rock genesis, mountain building, glaciations and geological time. Laboratories include rock and mineral identification, and problem solving in historical geology, earthquakes, groundwater flow and coastal erosion.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 108 (36L;12Lb;60P)

GEOL 106/3.0 Environmental Geology and Natural Hazards

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.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;12O;72P)

GEOL 107/3.0 History of Life

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.

LEARNING HOURS 120 (36L;12Lb;12O;60P)

GEOL 200/3.0 Oceanography

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.

LEARNING HOURS 114 (36L;12Pc;12O;48P)

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 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

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.

PREREQUISITE 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

The field study of surficial deposits, rock types, and geological processes, based on the geology of the Kingston area.

Descriptions, samples and measurements acquired on several field trips will be analyzed, and the results recorded in maps, sections, and reports throughout the course.

NOTE Transportation for six half-day field trips. Estimated cost \$90.

NOTE Department may require GEOL 104/3.0 and GEOL 221/3.0 to be taken concurrently.

LEARNING HOURS 120 (24L;60Lb;8G;40c;24P)

PREREQUISITE GEOL 104/3.0 or permission of the Department.

GEOL 232/3.0 Mineralogy

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.

LEARNING HOURS 120 (36L;36Lb;48P)

RECOMMENDATION 4U Chemistry is required.

PREREQUISITE 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 235/3.0 Igneous and Metamorphic Petrology

Introduction to the genesis and characterization of igneous and metamorphic rocks. Students will acquire skills to classify rocks and the theoretical background to place these rocks in the context of where, why, and how they form with implications for resource exploration and utilization. Macroscopic and microscopic properties will be studied.

PREREQUISITE GEOL 232/3.0.

GEOL 238/3.0 Surficial Processes, Sedimentation and Stratigraphy

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.

LEARNING HOURS 130 (36L;22Lb;72P)

PREREQUISITE GEOL 104/3.0 or permission of the Department.

GEOL 249/3.0 Geophysical Characterization of the Earth

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.

LEARNING HOURS 117 (36L;48Pc;7G;24P)

PREREQUISITE GEOL 104/3.0 or permission of the Department.

COREQUISITE [MATH 120/6.0 or MATH 121/6.0 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 118/6.0 or *PHYS 107/6.0*) 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

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.

LEARNING HOURS 114 (36L;18Lb;60P)

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

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.

LEARNING HOURS 117 (36L;8T;42Pc;7G;24P)

RECOMMENDATION 4U Physics is required.

PREREQUISITE GEOL 104/3.0 or permission of the Department.

COREQUISITE MATH 120/6.0 or MATH 121/6.0 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

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.

PREREQUISITE 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.

NOTE Accommodation fee plus transportation per diem fee. Estimated \$950.

LEARNING HOURS 120 (120Oc)

PREREQUISITE GEOL 221/3.0 and GEOL 235/3.0 or permission of the Department.

GEOL 301/1.5 Field Studies in Geology I

A multi-day field trip that uses stratigraphic, sedimentological, and paleontological data to interpret rock successions in a paleoenvironmental and tectonic context. Enrolment is limited.

NOTE The course runs during the week of Canadian Thanksgiving. Please contact the Department for more information. Please see the departmental webpage for information on costs. Estimated \$450.

LEARNING HOURS 61 (1L;30Pc;15G;15P)

PREREQUISITE GEOL 238/3.0.

COREQUISITE GEOL 321/3.0 or GEOL 337/3.0 or GEOL 368/3.0.

EXCLUSION No more than 1 course from GEOL 301/1.5; GEOL 302/1.5; GEOL 368/3.0 (prior to 2013); GEOL 478/3.0 (prior to 2013); GEOL 488/3.0 (prior to 2013).

GEOL 302/1.5 Problems in Sedimentary Geology

An independent study of the general links between tectonics and the nature of the sedimentary record in a variety of carbonate and siliciclastic depositional environments.

NOTE This course is intended to provide an option for students in lieu of GEOL 301/1.5.

LEARNING HOURS 60 (10I;50P)

PREREQUISITE GEOL 238/3.0

COREQUISITE GEOL 321/3.0 or GEOL 337/3.0 or GEOL 368/3.0 and permission of the Department.

EXCLUSION No more than one course from GEOL 301/1.5; GEOL 302/1.5; GEOL 368/3.0 (prior to 2013); GEOL 478/3.0 (prior to 2013); GEOL 488/3.0 (prior to 2013).

GEOL 319/3.0 Applied Geophysics

Geophysical methods (gravity, magnetic, electrical, and seismic) applied to engineering problems, including resource exploration and site investigation. Design of field programs considering physical principles, instrumentation, limitations, field procedures and data interpretation. Laboratory projects with geophysical equipment are undertaken.

LEARNING HOURS 121 (21L;18Lb;22T;12Oc;48P)

PREREQUISITE GEOL 249/3.0 or permission of the Department.

GEOL 321/3.0 Analysis of Rock Structures

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 of brittle and ductile deformation features; and examination of deformation styles in selected tectonic environments.

NOTE One field trip with a transportation fee. Estimated \$25.

LEARNING HOURS 122 (36L;18Lb;8Oc;60P)

PREREQUISITE GEOL 300/3.0 or permission of the Department.

GEOL 333/3.0 Terrain Evaluation

An introduction to the principles of geomorphology relevant to Geological Sciences and Geological Engineering. Identification and evaluation of terrain features using analog and digital imagery via traditional and digital (GIS) methods. Digital terrain model acquisition and analysis. Introduction to digital terrain analysis.

LEARNING HOURS 124 (36L;33Lb;55Pc)

PREREQUISITE GEOL 104/3.0 or permission of the Department.

GEOL 337/3.0 Paleontology

Review of the major groups of invertebrate fossils, emphasizing functional morphology, paleoecology, evolution, and geological significance.

NOTE Course includes a required one-day paleontological field trip. Please contact the Department for more information. Estimated \$25.

LEARNING HOURS 129 (36L;24Lb;6Pc;9Oc;54P)

PREREQUISITE GEOL 238/3.0 or BIOL 202/3.0 or permission of the Department.

GEOL 341/3.0 Problems in Geology

A problem-oriented course involving a substantial amount of self-directed learning about a topic of the student's choosing, culminating in the submission of a written report. This course is open to students only if a suitable faculty member is available.

LEARNING HOURS 120 (6I;114P)

PREREQUISITE Level 3 or above in a GEOL Major or Specialization Plan or permission of the Department.

GEOL 343/3.0 Hydrogeology

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.

NOTE One field trip with a transportation fee. Estimated \$30.

PREREQUISITE GEOL 238/3.0 and CHEM 112/6.0 or permission of the Department.

GEOL 352/3.0 Topics in Mineralogy

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 This course may not be offered every year. Consult: <http://www.queensu.ca/geol/courses> for more information.

LEARNING HOURS 120 (24L;36Lb;60P)

PREREQUISITE GEOL 232/3.0 or GEOL 212/3.0.

GEOL 359/3.0 Applications of Quantitative Analysis in Geological Sciences

The theory and use of numerical computational procedures to solve geo-engineering and geoscience problems. The utility, significance and widespread applicability of analytical and numerical techniques will be illustrated in the evaluation and solution of practical problems.

LEARNING HOURS 128 (36L;22T;6I;16Oc;48P)

PREREQUISITE GEOL 249/3.0 and (MATH 225/3.0 or *MATH 232/3.0*).

COREQUISITE STAT 263/3.0.

EXCLUSION *GEOL 349/3.0*.

GEOL 362/3.0 Petrology Applied to Ore Deposits

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.

LEARNING HOURS 121 (33L;33Lb;55P)

PREREQUISITE GEOL 235/3.0 or permission of the Department.

GEOL 365/3.0 Geochemical Characterization of Earth Processes

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.

PREREQUISITE CHEM 112/6.0 and GEOL 232/3.0 and GEOL 235/3.0, or permission of the Department.

GEOL 368/3.0 Carbonate Sedimentology

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.

NOTE One field trip with a transportation fee. Estimated \$25.

LEARNING HOURS 121 (33L;18Lb;70P)

PREREQUISITE GEOL 238/3.0 or permission of the Department.

COREQUISITE GEOL 301/1.5.

GEOL 401/1.5 Field Studies in Geology II

A multi-day field trip that uses stratigraphic, sedimentological, paleontological, and structural data to interpret shall-and-deep-marine rock successions in paleoenvironmental and tectonic context. Enrollment is limited. Course runs during the week of Canadian Thanksgiving.

NOTE For more information on costs see the departmental webpage for more information. Estimated \$450.

LEARNING HOURS 61 (1L;30Pc;15G;15P)

PREREQUISITE (A GPA of 2.90 in GEOL 221/3.0, GEOL 238/3.0 and GEOL 321/3.0) or permission of the Department.

COREQUISITE GEOL 488/3.0.

EXCLUSION No more than 1.5 units from GEOL 401/1.5; GEOL 402/1.5.

GEOL 402/1.5 Problems in North American Geology

The self-directed detailed study of some aspect of the geological evolution of eastern North America. The topic will complement the knowledge gained in GEOL 488/3.0.

NOTE This course is intended to provide an option for students in lieu of GEOL 401/1.5.

LEARNING HOURS 60 (10I;50P)

PREREQUISITE (A GPA of 2.90 in GEOL 221/3.0, GEOL 238/3.0, and GEOL 321/3.0) or permission of the Department.

COREQUISITE GEOL 488/3.0 and permission of the Department.

EXCLUSION No more than one course from GEOL 401/1.5; GEOL 402/1.5; GEOL 368/3.0 (prior to 2013); GEOL 488/3.0 (prior to 2013).

GEOL 418/3.0 Petroleum Geology

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 This course may not be offered every year. Consult: <http://www.queensu.ca/geol/courses> for more information.

LEARNING HOURS 129 (36L;33Lb;60P)

PREREQUISITE GEOL 238/3.0 or permission of the Department.

COREQUISITE GEOL 321/3.0.

GEOL 419/3.0 Geophysics Field School

This 12-day, intensive field course focuses on field and laboratory techniques using a wide array of geophysical site investigation and exploration methods. Review lectures on instrument theory and principles of exploration program design. The course culminates in an exercise to design and implement an integrated geophysical site investigation.

NOTE Please contact the Department for more information. Estimated \$750.

LEARNING HOURS 120 (8L;12G;60Pc;40P)

PREREQUISITE GEOL 319/3.0 or permission of the Department.

GEOL 438/3.0 Topics in Sedimentary and Petroleum Geology

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.

PREREQUISITE Level 3 or above in a GEOL Major, Medial or Specialization Plan.

GEOL 439/3.0 Advanced Applied Geophysics

Advanced theory and techniques for acquisition, processing and interpretation of geophysical data. Solve a problem from idea, strategy, data acquisition, processing, to interpretation and deliverables. Design projects exploit seismic, gravity, magnetic, EM methods, in oil/gas/mineral exploration, near-surface prospecting and site investigation.

LEARNING HOURS 128 (21L;24G;35I;24Oc;24P)

PREREQUISITE GEOL 249/3.0 and GEOL 319/3.0 or permission of the Department.

GEOL 452/3.0 Instrumental Techniques Applied to the Study of Solids

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 This course may not be offered every year. Consult: <http://www.queensu.ca/geol/courses> for more information.

LEARNING HOURS 120 (24L;36Lb;60P)

PREREQUISITE GEOL 232/3.0 or permission of the Department.

GEOL 462/3.0 Advanced Petrogenesis and Metallogenesis

Igneous petrology, geochemistry and fluid-rock interaction applied to metallogeny and ore genesis. Case studies in mineral chemistry and geochemistry. Lectures, critical reading, laboratory work and seminars will provide an advanced understanding of the major ore-forming processes in a geodynamic setting and applications to mineral exploration.

LEARNING HOURS 120 (24L;12S;36Lb;48P)

PREREQUISITE (GEOL 362/3.0, GEOL 365/3.0) or permission of the Department.

GEOL 463/3.0 Spatial Information Management in the Geosciences

An introduction to spatial information management focusing on methods to support and extend geological mapping, mineral and petroleum exploration, and engineering site investigation. Computers and computation, GIS software and theory, spatial simulation and analysis, databases and data management, and design of effective decision support solutions.

NOTE This course may not be offered every year. Consult: <http://www.queensu.ca/geol/courses> for more information.

LEARNING HOURS 112 (33L;24Lb;55Pc)

PREREQUISITE GPHY 243/3.0 or GEOL 333/3.0 or permission of the Department.

GEOL 464/1.5 Visualization in the Geosciences

An introduction to 3D visualization of natural sciences data with a focus on methods relevant to geological engineering, mineral exploration, and geoscience research. Perception, representation, and analytical methods. Design tools and data integration methods. Temporal analysis of natural sciences data. LiDAR data analysis. Global and local models.

LEARNING HOURS 58 (18L;18Lb;22Pc)

PREREQUISITE GEOL 463/3.0 or permission of the Department.

GEOL 466/3.0 Isotopes and the Environment

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 This course may not be offered every year. Consult : <http://www.queensu.ca/geol/courses> for more information

LEARNING HOURS 120 (36L;12S;12Lb;60P)

PREREQUISITE CHEM 112 or permission of the Department.

GEOL 472/3.0 Economic Analysis Methods in Geological Engineering

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.

PREREQUISITE GEOL 235/3.0 and permission of the Department.

GEOL 475/3.0 Exploration and Environmental Geochemistry

Rock-water interaction and element migration in near surface environments applied to environmental and exploration problems. Students learn field and analytical techniques, evaluate and interpret geochemical data, and design solutions related to geochemical hazards to human health, environmental impact of mining, and detection of mineral deposits.

LEARNING HOURS 129 (30L;6S;33Lb;60P)

PREREQUISITE GEOL 365/3.0 or permission of the Department.

EXCLUSION No more than 3.0 units from GEOL 475/3.0 and GEOL 485/3.0.

GEOL 478/3.0 Terrigenous Clastic Sedimentology

Principles of sequence stratigraphy. Depositional processes, facies models, and sequence stratigraphy of fluvial, coastal, shelf, and deep-marine environments. Introduction to analysis of sedimentary basins.

NOTE This course may not be offered every year. Consult : <http://www.queensu.ca/geol/courses> for more information.

LEARNING HOURS 130 (48L;10S;36Lb;36P)

PREREQUISITE GEOL 238/3.0 or permission of the Department.

GEOL 481/3.0 Advanced Structural Analysis

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 This course may not be offered every year. Consult: <http://www.queensu.ca/geol/courses> for more information.

LEARNING HOURS 120 (24L;24Lb;12T;60P)

PREREQUISITE GEOL 321/3.0 or permission of the Department.

GEOL 488/3.0 Geology of North America

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.

NOTE GEOL 321/3.0 may be taken concurrently with permission of the Department.

LEARNING HOURS 120 (36L;36S;48P)

PREREQUISITE (GEOL 107/3.0 and GEOL 235/3.0 and GEOL 238/3.0 and GEOL 249/3.0 and GEOL 300/3.0 and GEOL 321/3.0 and GEOL 365/3.0) or permission of the Department.

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.

LEARNING HOURS 258 (6L;12S;48I;192P)

PREREQUISITE Level 4 in a GEOL Major or Specialization Plan, and a GPA of 3.3 in 36.0 units in GEOL, and permission of the Department.

GNDS 120/3.0 Women, Gender, Difference

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. Lessons and texts will introduce feminism, the body, colonialism, gender performance, and strategies of resistance.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (12L;12T;12O;84P)

GNDS 125/3.0 Gender, Race and Popular Culture

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 online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (24L;12T;84P)

GNDS 211/3.0 Feminist Histories

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department.

GNDS 212/3.0 Racism, Colonialism and Resistance

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.

LEARNING HOURS 120 (24L;12T;84P)

PREREQUISITE Level 2 or permission of the Department.

GNDS 215/3.0 Introduction to Sexual and Gender Diversity

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Study Centre. Learning Hours may vary.

LEARNING HOURS 120 (24L;12T;84P)

PREREQUISITE Level 2 or permission of the Department.

GNDS 280/3.0 Special Topics in Gender Studies

Offered when faculty resources permit, these courses are 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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department.

GNDS 295/3.0 Comics and Politics

The course explores historical and contemporary comics, graphic novels, and sequential art in connection with debates surrounding race, class, nation, sexual and gender diversity. Topics include documentary, war, trauma, transgender studies, memory, heroism, capitalism, humour, feminist thought, medical humanities, digital culture, and satire.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department.

EXCLUSION No more than 3.0 units from GNDS 280-004 (2017-2018) and GNDS 295/3.0.

GNDS 311/3.0 Feminist Thought

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 and GNDS 120/3.0 or GNDS 125/3.0.

GNDS 312/3.0 Black Feminisms

Studies in black women's and black gender politics in Canada, the U.S.A., and the Caribbean.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

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.

LEARNING HOURS 120 (36L;84P)

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

GNDS 335/3.0 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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 and GNDS 120/3.0 or GNDS 125/3.0

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.

NOTE Also offered at the Bader International Study Centre.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

GNDS 365/3.0 Gender Dialogues: Jewish, Muslim and Christian

This course takes an intersectional approach to contemporary interfaith dialogues, with the aim of exploring and developing religious, ethical, and cultural literacies. The course considers the construction of gender norms, stereotypes, cultural expectations, religious expectations and practices, and state policies post 9/11.

NOTE Also offered at the Bader International Study Centre.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

GNDS 370/3.0 Writing Lives: Feminism and Women's Writing

Using feminist, trans and queer theory, critical race, disability studies, literary and cultural criticism, this course explores women's writing in a wide range of genres, with emphases on memory and self-narration and the ways in which subjects located or rejected as 'women' contend with binary, racialized and classed frames of gender.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

GNDS 380/3.0 Special Topics in Gender Studies

Offered when faculty resources permit, these courses are 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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

GNDS 401/6.0 Debates on Feminism and Islam

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.

LEARNING HOURS 204 (36S;168P)

PREREQUISITE Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.

GNDS 410/6.0 Special Topics in Gender Studies

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.

LEARNING HOURS 204(36S;168P)

PREREQUISITE Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.

GNDS 412/6.0 Seminar in Sexual and Gender Diversity

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.

LEARNING HOURS 204(36S;168P)

PREREQUISITE Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.

GNDS 421/6.0 Gender and Poverty

This course is designed to provide an in-depth 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.

LEARNING HOURS 204 (36S;168P)

PREREQUISITE Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.

EXCLUSION No more than 6.0 units from GNDS 421/6.0; POLS 318/3.0; POLS 382/3.0.

GNDS 427/6.0 Towards the Human: Race and the Politics of Expression

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.

LEARNING HOURS 204(36S;168P)

PREREQUISITE Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.

GNDS 428/6.0 Gender Performance

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.

LEARNING HOURS 204(36S;168P)

PREREQUISITE Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.

GNDS 432/6.0 Settler Colonialism and Indigenous Politics

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.

LEARNING HOURS 204 (36S;168P)

PREREQUISITE Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.

GNDS 440/6.0 Social Justice Practicum: Learning through Community Organizing and Activism

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.

LEARNING HOURS 240 (36S;72Pc;132P)

PREREQUISITE Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.

GNDS 445/6.0 Feminist and Queer Ethnography

Examines feminist ethnography and queer ethnography as distinct subfields, areas of inquiry, writing genres and ethical methods in research and social life. Topics: historical uses of ethnography and feminist/queer/trans critiques of them; adaptations of ethnography to trans, queer, and feminist work; ethnography's importance to gender studies.

LEARNING HOURS 240 (12L;24S;36G;168P)

PREREQUISITE Level 3 or above and registration in a GNDS Major or Medial or SXGD Plan, or permission of the Department.

GNDS 465/6.0 Gender Dialogues: Religion and Cultural Politics

This course analyzes exchanges among Jewish, Muslim, and Christian traditions, using tools from gender studies, critical race studies, religious and cultural studies. The course explores boundary-crossing in social, cultural, personal and political contexts. The course contains an intensive and independent study component.

NOTE Also offered at the Bader International Study Centre.

LEARNING HOURS 216 (36S;180P)

PREREQUISITE Level 3 or above in a GNDS Major or Medial or SXGD Plan, or permission of the Department.

GNDS 480/3.0 Special Topics in Gender Studies

Offered when faculty resources permit, these courses are analyses of particular areas of gender studies interdisciplinary research.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 or above and registration in a GNDS Major or Medial or SXGD Plan, or permission of the Department.

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.

LEARNING HOURS 240(15I;225P)

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.

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.

LEARNING HOURS 120(9I;111P)

PREREQUISITE 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.

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.

LEARNING HOURS 120(9I;111P)

PREREQUISITE 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.

GPHY 101/3.0 Human Geography

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.

NOTE Field trip: estimated cost \$30.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (18S;18T;48O;36P)

EXCLUSION No more than 3.0 units from BISC 100/3.0; GPHY 101/3.0.

GPHY 102/3.0 Physical Geography and Natural Resources

This course introduces the major concepts studied in physical geography and natural resources. The processes and interrelationships between the atmosphere, hydrosphere, biosphere, and lithosphere, particularly at, or near the Earth's surface, are investigated to serve as a basis for understanding the nature and distribution of natural resources.

NOTE Field trip: estimated cost \$30.

LEARNING HOURS 120 (36L;12T;48P)

GPHY 105/3.0 The Digital Earth: Geospatial Data and Earth Observation

A vast amount of geospatial data has now become publicly accessible through online tools and smartphones. This course provides a critical introduction to the sources of these geospatial data, and the techniques of their visualization and analysis. Students will, by the end of the course, be able to manipulate and analyze these data in GIS software.

NOTE GPHY 105/3.0 is an option course and will not be a prerequisite for entry into GPHY Plans as are GPHY 101/3.0 and GPHY 102/3.0.

LEARNING HOURS 114 (36L;78P)

GPHY 203/3.0 Water Resources and Management

Water resources are coming under increasing pressure due to rising levels of demand and pollution. This course examines dimensions of the world's need for this critical resource. Topics include water distribution and availability, water quality, different water uses and demands, water treatment, and approaches to water management and allocation.

LEARNING HOURS 120 (36L;84P)

EQUIVALENCY *GPHY 103/3.0.*

PREREQUISITE Level 2 or above or permission of the Department.

GPHY 204/3.0 Forests as a Global Resource

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.

LEARNING HOURS 120 (36L;30G;54P)

EQUIVALENCY *GPHY 104/3.0.*

PREREQUISITE Level 2 or above or permission of the Department.

GPHY 207/3.0 Principles of Biogeography

An examination of ecological and earth system processes that affect the dynamics of organisms, their spatial patterns and their variability in time.

LEARNING HOURS 114 (36L;18Pc;12I;48P)

PREREQUISITE 3.0 units from GPHY 102/3.0; BIOL; GEOL or permission of the Department.

GPHY 208/3.0 Surface Processes, Landforms, and Soils

Explores the structure of, and physical processes responsible for the development of landforms and soils. Understanding these systems is directly relevant to environmental planning, hazard and risk assessment, geology, and surface processes on other planets. Topics include weathering, volcanic, tectonic, mass wasting, glacial, and fluvial processes.

NOTE Field trip: estimated cost \$25.

LEARNING HOURS 120 (36L;36Lb;48P)

PREREQUISITE GPHY 102/3.0 or permission of the Department.

GPHY 209/3.0 Weather and Climate

The weather and climate system will be investigated to provide a background to interpret weather conditions and to understand broader climate and climate change phenomena. Topics include: atmospheric properties, energy and moisture exchanges, weather system evolution, precipitation, climate classification, and forecasting.

LEARNING HOURS 114 (36L;18Pc;60P)

PREREQUISITE GPHY 102/3.0 or permission of the Department.

GPHY 227/3.0 Cities: Geography, Planning and Urban Life

The city from a geographical and planning perspective. Topics include origins of urbanism; mega; migrant, and global cities; urban competitiveness; land use planning and design; suburbanization and sprawl; new urban identities and culture; retailing transport; public space; private and temporary cities; urban poverty; politics and governance; sustainable urban futures.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (12L;18T;30O;60P)

PREREQUISITE Level 2 or above or permission of the Department.

GPHY 228/3.0 Geographies of the Global Political Economy

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.

LEARNING HOURS 129 (36L;9G;24O;60P)

PREREQUISITE Level 2 or above or permission of the Department.

GPHY 229/3.0 Place, Space, Culture and Social Life

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, globalization and issues of knowledge, power and imperialism.

LEARNING HOURS 120 (36L;24O;60P)

PREREQUISITE Level 2 or above or permission of the Department.

GPHY 240/3.0 Introduction to Qualitative Methods in Geography

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.

LEARNING HOURS 120 (36L;18Lb;66P)

PREREQUISITE GPHY 101/3.0 or GPHY 102/3.0, or permission of the Department.

EXCLUSION No more than 3.0 units from BMED 270/3.0; GPHY 240/3.0; SOCY 210/3.0.

GPHY 242/3.0 Remote Sensing I: Remote Sensing of the Environment

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.

LEARNING HOURS 120 (36L;24Lb;60P)

PREREQUISITE GPHY 101/3.0 or GPHY 102/3.0, or permission of the Department.

GPHY 243/3.0 Geographic Information Science

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.

LEARNING HOURS 120 (36L;24Pc;60P)

PREREQUISITE (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.

GPHY 247/3.0 Introduction to Statistics

An introduction to the analysis of data from real life situations. Covers study design, descriptive and inferential statistics. Topics include probability, t-tests, regression, Chi-square tests, analysis of variance. Emphasis is in the foundation of statistical inference and practical application of statistical methods using statistical software.

LEARNING HOURS 126 (12L;18Lb;48O;48P)

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 263/3.0; STAT 267/3.0; STAT 367/3.0; COMM 162/3.0.

GPHY 250/3.0 The Geography of Canada

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.

LEARNING HOURS 120 (36L;24O;60P)

PREREQUISITE Level 2 or above or permission of the Department.

GPHY 254/3.0 The Caribbean in a Globalizing World

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.

LEARNING HOURS 120 (36L;24O;60P)

PREREQUISITE Level 2 or above or permission of the Department.

GPHY 257/3.0 The Geography of Middle America

The lands and peoples of Mexico, Central America, and the West Indies, emphasizing the historical factors that shape contemporary life in the region.

LEARNING HOURS 120 (36L;24O;60P)

PREREQUISITE Level 2 or above or permission of the Department.

GPHY 258/3.0 The Geography of South America

The lands and peoples of South America, emphasizing how the colonial experience continues to affect contemporary life in the region.

LEARNING HOURS 120 (36L;24O;60P)

PREREQUISITE Level 2 or above or permission of the Department.

GPHY 259/3.0 The Geography of Europe

The ecological, cultural, and historical factors that contribute to the shaping of modern Europe.

LEARNING HOURS 120 (36L;24O;60P)

PREREQUISITE GPHY 101/3.0 or GPHY 102/3.0, or permission of the Department.

GPHY 304/3.0 Arctic and Periglacial Environments

Advanced study of the physical geography of northern regions, emphasizing the Canadian Arctic.

LEARNING HOURS 126 (36L;6O;84P)

PREREQUISITE GPHY 102/3.0 or APSC 151/3.0 or permission of the Department.

GPHY 306/3.0 Natural Environmental Change

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.

LEARNING HOURS 126 (36L;6O;84P)

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

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.

PREREQUISITE (GPHY 208/3.0 and GPHY 209/3.0) or permission of the Department.

GPHY 309/3.0 Integrated Field Course in Geography

This Field School explores the socio-political, cultural, and biophysical dimensions of human environment interactions. It examines how communities perceive and interact with their environments and how they are, in turn, impacted by change. Students will do readings, seminars, assignments, and participate in a Field School for up to four weeks.

NOTE Field School cost is dependant on location and duration in the field, to a maximum of \$3000. Please refer to the Department website for further information.

LEARNING HOURS Learning Hours may vary. Please consult the Department for more information.

PREREQUISITE Level 3 or above and registration in a GPHY Plan or permission of the Department.

GPHY 310/3.0 Landscape Ecology

Study of the relationship between spacial 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 Field trips may apply in certain years; estimated cost \$30.

LEARNING HOURS 120 (24L;24Lb;6O;66P)

EQUIVALENCY *GPHY 418/3.0.*

PREREQUISITE Level 3 and [GPHY 207/3.0 or (BIOL 201/3.0 and BIOL 202/3.0)] or permission of the Department.

GPHY 311/3.0 Biogeochemical Processes

Knowledge of biogeochemical cycles is key to understanding earth system science. This course examines the processes behind the transfers and transformations of biogeochemical elements (e.g. carbon, nitrogen, phosphorus, sulfur, and metals) between various Earth systems, and explores methods used to investigate and quantify biogeochemical cycles.

LEARNING HOURS 120 (24L;12Pc;84P)

EQUIVALENCY *GPHY 411/3.0.*

PREREQUISITE Level 3 and 6.0 units in CHEM at the 100 level or above.

GPHY 312/3.0 Watershed Hydrology

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.

LEARNING HOURS 108 (36L;36Lb;36P)

PREREQUISITE GPHY 208/3.0 or GPHY 209/3.0 or permission of the Department.

GPHY 314/3.0 Climate Change

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.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE Level 3 or permission of the Department.

GPHY 315/3.0 Environmental Measurements: Data Collection and Management

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.

LEARNING HOURS 120 (36L;24Lb;60P)

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

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.

NOTE Field trips: estimated cost \$30.

LEARNING HOURS 120 (36L;36Lb;48P)

PREREQUISITE GPHY 208/3.0 or GPHY 209/3.0, or permission of the Department.

GPHY 318/3.0 Advanced Biogeography

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.

LEARNING HOURS 116 (36L;80c;72P)

PREREQUISITE Level 3 and (GPHY 207/3.0 or [BIOL 201/3.0 and BIOL 202/3.0]), or permission of the Department.

GPHY 319/3.0 Bioenergy and Biorefining in Canada

Developing new renewable energy options using biomass requires an understanding of feedstocks and technologies, as well as the social and economic factors that drive the industry. Value-added options for biorefining, including the combination of material, chemical, and energy products with environmental services such as phytoremediation and carbon sequestration, are explored in the Canadian context.

LEARNING HOURS 126 (36L;18G;36O;36P)

PREREQUISITE Level 3 in a GPHY Plan, or permission of the Department.

GPHY 325/3.0 Maps and Society

A critical study of cartographic representation from the pre-modern era up to and including the political, social, military, and economics roles of maps and geospatial data in the contemporary world.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

GPHY 327/3.0 The Geographical Imagination

Critical approaches to the role of the geographic, cultural and historical imagination in shaping landscapes, environments and society.

LEARNING HOURS 127 (36L;4G;12O;30c;72P)

PREREQUISITE GPHY 229/3.0, or 3.0 units in DEVS at the 200 level or above, or permission of the Department.

GPHY 330/3.0 Transportation Geography

The course provides a systematic examination of urban transportation in the context of general economic, social and spatial trends. Particular focus is placed on the role of the built environment in explaining travel behaviour. The aim is to provide a fair understanding of transportation planning and policy issues and explore potential solutions.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department.

GPHY 332/3.0 Cities and Planning for Sustainable Development

Contemporary community planning and urban development from the perspectives of social sciences, planning and real estate development. Emphasis on understanding actors in the process and creating projects that are socially, environmentally and economically sustainable. Informed by international perspectives, but focused on Canadian cities.

NOTE Case Materials: Approximate \$30.

NOTE Optional field trip may be undertaken in some years; approximate cost up to \$300.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE GPHY 227/3.0 and (GPHY 228/3.0 or GPHY 229/3.0 or DEVS 230/3.0) or permission of the Department.

GPHY 336/3.0 Geography, the Environment and Human Health

Examines the relationship between human health and built, physical, and social environments. Focus is influence of local environmental conditions on population health outcomes within the North American urban context. Policy and programming options for improving local conditions are explored.

LEARNING HOURS 120 (36L;24I;24O;36P)

PREREQUISITE Level 3 and (3.0 units from BIOL 243/3.0; CHEE 209/3.0; COMM 162/3.0; ECON 250/3.0; GPHY 240/3.0; GPHY 247/3.0; KNPE 251/3.0; NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0) or permission of the Department.

GPHY 337/3.0 Regional Development Theory and Policy

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE 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

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE 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

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.

LEARNING HOURS 120 (36L;24I;24O;36P)

PREREQUISITE Level 3 and (3.0 units from BIOL 243/3.0; CHEE 209/3.0; COMM 162/3.0; ECON 250/3.0; GPHY 240/3.0; GPHY 247/3.0; KNPE 251/3.0; NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0) or permission of the Department.

GPHY 341/3.0 Photogrammetry

An intensive introduction to the art and science of 3D measurement and mapping using photographs, with a particular focus on applications in GIS, Cartography, Cultural Heritage, Urban Planning, Geology and Engineering.

LEARNING HOURS 120 (36L;36Lb;48P)

EQUIVALENCY *CLST 351/3.0.*

PREREQUISITE Level 3 or permission of the Department.

GPHY 342/3.0 Remote Sensing II: Digital Image Processing

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.

LEARNING HOURS 120 (24L;24Pc;72P)

PREREQUISITE GPHY 242/3.0 and GPHY 247/3.0 or permission of the Department.

GPHY 343/3.0 Applications of Geospatial Technology for Business

This course introduces the practical use of GIS in business and strategic planning decisions. Students will learn how to collect, visualize, and analyze spatial data to address many business, socio-economic, and demographic challenges from a spatial context and present solutions on maps for a wide range of business applications.

LEARNING HOURS 126 (24L;24Lb;24O;54P)

PREREQUISITE GPHY 243/3.0 or permission of the Department.

GPHY 344/3.0 Cartographic Design and Visualization

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.

GPHY 345/3.0 Spatial Analysis

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.

LEARNING HOURS 120 (24L;24Pc;24G;24O;24P)

PREREQUISITE GPHY 243/3.0 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 263/3.0; STAT 267/3.0; STAT 367/3.0), or permission of the Department.

GPHY 346/3.0 GIS and Modelling for Environmental Applications

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.

LEARNING HOURS 120 (24L;24Pc;24G;24O;24P)

PREREQUISITE GPHY 243/3.0 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 263/3.0; STAT 267/3.0; STAT 367/3.0), or permission of the Department.

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.

LEARNING HOURS 120 (24L;24Pc;24O;24P)

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 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.

LEARNING HOURS 120 (24L;24Pc;24G;24O;24P)

PREREQUISITE GPHY 243/3.0 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 263/3.0; STAT 267/3.0; STAT 367/3.0), or permission of the Department.

GPHY 349/3.0 GIScience and Public Health

This course examines contemporary applications of geographic information science (GIScience) and geographic information system (GIS) in public health, including disease mapping, environmental hazards, spatial epidemiology, and problems of accessibility to and siting of health services.

LEARNING HOURS 120 (24L;24P; 72P)

PREREQUISITE GPHY 243/3.0 and GPHY 247/3.0 or permission of the Department.

GPHY 351/3.0 Geographies of Indigenous and Settler Relations

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 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 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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (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 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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE GPHY 227/3.0 or GPHY 228/3.0 or GPHY 229/3.0, or permission of the Department.

GPHY 365/3.0 Geography, Development, and Environment in the 'Third World'

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.

LEARNING HOURS 120 (36L;120;72P)

PREREQUISITE 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 DEVS or GNDS) or (ENSC 103/3.0 or *ENSC 203/3.0*) or permission of the Department.

GPHY 368/3.0 Environments and Society

A critical evaluation of the changing relationships between nature and society.

LEARNING HOURS 127 (36L;4G;120;30c;72P)

PREREQUISITE (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 DEVS).

GPHY 370/3.0 Special Topics in Human Geography

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 in a GPHY Plan, or permission of the Department.

GPHY 371/3.0 Special Topics in Earth System Science

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 in a GPHY Plan, or permission of the Department.

GPHY 372/3.0 Special Topics in Geographic Information Science

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 in a GPHY Plan, or permission of the Department.

GPHY 401/3.0 Honours Seminar in Human Geography I

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.

NOTE Field trip fees may apply in certain years. See departmental webpage for more information. Cost will vary depending on location, but not likely to exceed \$300 per year.

LEARNING HOURS 132 (36S;240c;72P)

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).

EXCLUSION 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

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.

NOTE Field trip fees may apply in certain years. See departmental webpage for more information. Cost will vary depending on location, but not likely to exceed \$300 per year.

LEARNING HOURS 132 (36S;240c;72P)

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).

EXCLUSION 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

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.

NOTE Field trip fees may apply in certain years. See departmental webpage for more information. Cost will vary depending on location, but not likely to exceed \$300 per year.

LEARNING HOURS 132 (36S;240c;72P)

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).

EXCLUSION No more than 3.0 units from GPHY 401/3.0; GPHY 402/3.0; GPHY 403/3.0.

GPHY 413/3.0 Water, Energy and Carbon Cycling in the Biosphere

The study of the interaction of the atmosphere with the surface in terms of radiative, heat, water, and trace gas fluxes.

NOTE Field trip fees may apply in certain years. See departmental webpage for more information. Cost will vary depending on location, but not likely to exceed \$175 per year.

LEARNING HOURS 120 (36L;12Lb;72P)

PREREQUISITE Level 4 and (6.0 units from MATH at the 100 level or above) and (6.0 units from BIOL or CHEM 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).

GPHY 415/6.0 Advanced Analysis of Earth Surface Processes

A fourth year Honours capstone project course exploring a contemporary geographic issue by integrating advanced knowledge and skills in physical geography and geographic information science. Focus will be on integration of field and laboratory methods, and how they are used to explore contemporary geographic or environmental issues.

NOTE Field trips within the Province of Ontario during the year. Costs will vary depending on location, but not likely to exceed \$175 per year.

LEARNING HOURS 240 (12L;12S;36Lb;12G;24Oc;144P)

PREREQUISITE Level 4 and (6.0 units from MATH or STAT at the 100-level or above) and (6.0 units from CHEM 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).

GPHY 417/3.0 Land-Use Change in the Earth System

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.

NOTE Field trip fees may apply in certain years. See departmental webpage for more information. Cost will vary depending on location, but not likely to exceed \$175 per year.

LEARNING HOURS 131 (30L;41Oc;60P)

PREREQUISITE Level 4 and (6.0 units from MATH at the 100 level or above) and (6.0 units from BIOL or CHEM 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).

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. Special consideration will be given to requests from students with an average of B or more in those courses which form their concentration. The student will arrange a program of study with a specific member of the Department.

LEARNING HOURS 120 (24I;96P)

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 of 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.

LEARNING HOURS 120 (24I;96P)

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 of the Departmental Undergraduate Committee.

EXCLUSION No more than 1 course from 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.

LEARNING HOURS 240 (48I;192P)

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 of the Departmental Undergraduate Committee.

EXCLUSION No more than 1 course from GPHY 501/3.0; GPHY 502/3.0; GPHY 503/6.0.

GREK 112/6.0 Introductory Greek

Fundamentals of grammar, syntax and etymology, for students with no or little knowledge of **Ancient** Greek; provides sufficient background to read Plato, Euripides as well as the New Testament.

NOTE Normally not open to students with 4U Greek.

LEARNING HOURS 276 (72L;24T;180P)

GREK 208/6.0 Intermediate Greek

Review of grammar, and 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.

LEARNING HOURS 282 (72L;210P)

PREREQUISITE GREK 112/6.0.

GREK 321/3.0 Greek Prose

Selected passages of Greek prose, usually drawn from oratory, history, and philosophy, read in the original Greek and commented upon for their linguistic, literary, and historical significance.

NOTE This course is normally co-taught with GREK 421/3.0.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE A grade of C in GREK 208/6.0 or permission of the Department of Classics.

GREK 322/3.0 Greek Verse

Selected passages of Greek verse, usually drawn from works of epic, lyric, elegy, and drama, read in the original Greek and commented upon for their linguistic, literary, and historical significance.

NOTE This course is normally co-taught with GREK 422/3.0.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE A grade of C in GREK 208/6.0 or permission of the Department of Classics.

GREK 421/3.0 Advanced Greek Prose

Selected works of Greek prose, usually drawn from oratory, history, and philosophy, read in the original Greek and commented upon for their linguistic, literary, and historical significance.

NOTE This course is normally co-taught with GREK 321/3.0.

LEARNING HOURS 141 (36L;105P)

PREREQUISITE A grade of C in GREK 321/3.0 or permission of the Department of Classics.

GREK 422/3.0 Advanced Greek Verse

Selected works of Greek verse, usually drawn from works of epic, lyric, elegy, and drama, read in the original Greek and commented upon for their linguistic, literary, and historical significance.

NOTE This course is normally co-taught with GREK 322/3.0.

LEARNING HOURS 141 (36L;105P)

PREREQUISITE A grade of C in GREK 322/3.0 or permission of the Department of Classics.

GREK 430/6.0 Research Course

Detailed study of certain aspects of Greek Literature and history through directed readings and essay assignments.

LEARNING HOURS 240 (24I;216P)

PREREQUISITE A minimum GPA of 1.90 in 6.0 units from GREK at the 300-level.

GREK 591/0.0 General Examination

GRMN 101/3.0 Beginner's German I

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.

LEARNING HOURS 120 (36L;120;72P)

ONE-WAY EXCLUSION May not be taken with or after GRMN 102/3.0; GRMN 201/3.0; GRMN 202/3.0.

GRMN 102/3.0 Beginner's German II

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.

LEARNING HOURS 120 (36L;120;72P)

PREREQUISITE A grade of C in GRMN 101/3.0 or permission of the Department of Languages, Literatures and Cultures.

ONE-WAY EXCLUSION May not be taken with or after GRMN 201/3.0; GRMN 202/3.0.

GRMN 201/3.0 Intermediate German I

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.

LEARNING HOURS 120 (36L;120;72P)

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

A systematic review of grammatical structures with the aim of enhancing students' linguistic competence with particular emphasis on written communication.

LEARNING HOURS 120 (36L;120;72P)

PREREQUISITE A grade of C in GRMN 201/3.0 or permission of the Department of Languages, Literatures and Cultures.

GRMN 203/3.0 German Conversation and Culture

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.

LEARNING HOURS 120 (36L;12T;84P)

PREREQUISITE A grade of C in GRMN 102/3.0 or permission of the Department of Languages, Literatures and Cultures.

GRMN 306/3.0 Business German I: German in the Workplace

Designed for students at the intermediate-advanced level. The course aims at developing communicative competence in the fields of business, commerce, industry, and German in the workplace, with specific emphasis on oral communication. The course prepares students for the internationally recognized exam *Zertifikat Deutsch für den Beruf*. Students can write the exam on campus.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in GRMN 202/3.0 or permission of the Department of Languages, Literatures and Cultures.

GRMN 307/3.0 Business German II: German in the Workplace

Designed for students at the intermediate-advanced level. The course aims at developing communicative competence in the fields of business, commerce, industry, and German in the workplace, with specific emphasis on approaches to intercultural communication. The course prepares students for the internationally recognized exam *Zertifikat Deutsch für den Beruf*. Students can write the exam on campus.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in GRMN 202/3.0 or permission of the Department of Languages, Literatures and Cultures.

GRMN 308/3.0 Survey of German Cultural History I

Intensive development of language skills (reading, writing, speaking, listening) in the course of a general introduction to the cultural history of the German-speaking countries up to and including the nineteenth century.

LEARNING HOURS 120 (36L;12T;84P)

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

Intensive development of language skills (reading, writing, speaking, listening) in the course of a general introduction to the cultural history of the German-speaking countries in the twentieth and twenty-first centuries.

LEARNING HOURS 120 (36L;12T;84P)

PREREQUISITE A grade of C in GRMN 202/3.0 or permission of the Department of Languages, Literatures and Cultures.

GRMN 311/3.0 German Language and Culture through 18th- and 19th Century Literature

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.

LEARNING HOURS 120 (36L;12T;84P)

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

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.

LEARNING HOURS 120 (36L;12T;84P)

PREREQUISITE A grade of C in GRMN 202/3.0 or permission of the Department of Languages, Literatures and Cultures.

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.

LEARNING HOURS 120 (120P)

PREREQUISITE Permission of the Department of Languages, Literatures and Cultures.

GRMN 317/3.0 Contemporary Germany through Media and News

This course's aim is threefold: to improve students' comprehension and production of oral and written German through practice in reading, writing, listening and speaking; to increase their knowledge of contemporary issues in Germany, with a special focus on transnational perspectives; and to better their analytic skills and media literacy.

LEARNING HOURS 120.5 (36S;12.5G;72P)

PREREQUISITE A grade of C in GRMN 202/3.0 or permission of the Department of Languages, Literatures and Cultures.

GRMN 419/3.0 Roots of Fascism: Resistance to Liberalism in the 19th Century

A survey of various currents of thought from 19th-century Europe that illustrate conservative discomfort with industrial society and help to make the outbreak of fascism understandable after 1918. The course will distinguish between conservative, nationalist, aesthetic, and religious trends, illustrated by relevant readings from different countries.

NOTE Taught in English together with LLCU 319/3.0. Students in a GMST Plan will submit written assignments, tests, and examinations in German. Normally, students will read German texts in the original.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in GRMN 202/3.0 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from GRMN 419/3.0; LLCU 319/3.0.

GRMN 420/3.0 Fascism in Europe from Napoleon to Hitler

An introduction from a cultural perspective to the growth of the fascist mentality in Europe and the emergence of fascist regimes. The course will treat Italian Fascism and the Third Reich as part of the broader conservative and nationalist challenge to liberalism.

NOTE Taught in English together with LLCU 320/3.0. Students in a German Plan will submit written assignments, tests and examinations in German. Normally students will read German texts in the original.

LEARNING HOURS 120 (36L;84P)

EQUIVALENCY *INTS 320/3.0.*

PREREQUISITE A grade of C in GRMN 202/3.0 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 320/3.0; *INTS 320/3.0*; GRMN 420/3.0.

GRMN 426/3.0 Film in the New Europe

This course will investigate how the new Europe and film shaped each other. 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.

NOTE Taught in English together with LLCU 326/3.0. Students in a German Plan will submit written assignments, tests and examinations in German. Normally, they will read German texts in the original.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in GRMN 202/3.0 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from GRMN 426/3.0; LLCU 326/3.0.

GRMN 427/3.0 Sickness and Health – Cultural Representations in Medical Discourse

Investigates cultural images and metaphors of disease, with an emphasis on the evolution of normalcy. We will study representations of disease (photography, museum exhibit, literary text), their historic development, and theoretic reflections on media with respect to both historical and contemporary notions of sickness and health.

NOTE Taught in English together with LLCU 327/3.0. Students concentrating in German will submit written assignments, tests and examinations in German. Normally students will read German texts in the original.

LEARNING HOURS 114 (36L;60;72P)

PREREQUISITE A grade of C in GRMN 202/3.0 or permission of the Department of Languages, Literatures and Cultures

EXCLUSION No more than 3.0 units from LLCU 327/3.0; GRMN 427/3.0.

GRMN 429/3.0 Uncanny Encounters: Narrative Analysis of the Fantastic Genre

The course offers an overview of the related genres of the Fantastic, the Fairy Tale, Dystopia, Science Fiction, and Horror. Examples will include popular works such as the Twilight Saga, Harry Potter, and/or The Hunger Games, but also traditional texts by Hoffman and Kafka. Parallel to the fictional works, the course offers theoretical analysis.

NOTE Taught in English together with LLCU 329/3.0. Students in a GMST Plan will submit written assignments, tests and examinations in German. Normally, students will read German texts in the original.

LEARNING HOURS 120 (12L;24S;12G;24O;48P)

PREREQUISITE A grade of C in GRMN 202/3.0 or permission of the Department of Languages, Literatures and Cultures

EXCLUSION No more than 3.0 units from LLCU 329/3.0; GRMN 429/3.0; ENGL 273/3.0.

GRMN 433/3.0 Conflict and Culture: Literature, Law and Human Rights

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 Taught in English together with LLCU 322/3.0. Students in a GRMN Plan will submit written assignments, tests, and examinations in German. Normally, they will read German texts in the original.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in GRMN 202/3.0 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from GRMN 433/3.0; LLCU 322/3.0.

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.

LEARNING HOURS 120 (120P)

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.

LEARNING HOURS 120 (120P)

PREREQUISITE Permission of the Department of Languages, Literatures and Cultures.

HEBR 190/6.0 Introduction to Modern Hebrew

For students with no (or a minimal) background in Hebrew. Introduces elements of grammar and vocabulary of modern Hebrew.

PREREQUISITE Permission of the instructor.

HEBR 192/3.0 Introductory Biblical Hebrew

Provides a basic introduction to reading and understanding biblical Hebrew prose. No prior knowledge of Hebrew assumed.

NOTE This course replaces the first semester of HEBR 191/6.0.

LEARNING HOURS 120 (36L;84P)

EQUIVALENCY *HEBR 191/6.0.*

EXCLUSION No more than one course from *HEBR 191/6.0*; HEBR 192/3.0.

HEBR 193/3.0 Classical Hebrew Fundamentals

Focus is on reading prose portions with comprehension in biblical texts. Certain extra-biblical second Temple literature may also be read (e.g., texts from the Dead Sea Scrolls).

NOTE This course replaces the second semester of HEBR 191/6.0.

LEARNING HOURS 120 (36L;84P)

EQUIVALENCY *HEBR 191/6.0.*

PREREQUISITE HEBR 192/3.0 or permission of the instructor.

EXCLUSION No more than one course from *HEBR 191/6.0*; HEBR 193/3.0.

HEBR 292/3.0 Intermediate Biblical Hebrew

Readings in biblical Hebrew prose and poetry.

PREREQUISITE HEBR 193/3.0 or *HEBR 191/6.0* or permission of the instructor.

HEBR 294/3.0 Intermediate Modern Hebrew I

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.

PREREQUISITE HEBR 190/6.0 or permission of the instructor.

HEBR 295/3.0 Intermediate Modern Hebrew II

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.

PREREQUISITE HEBR 294/3.0 or permission of the instructor.

HEBR 301/3.0 Special Topics in Hebrew

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.

PREREQUISITE HEBR 294/3.0 or permission of the instructor.

HEBR 393/3.0 Reading Modern Hebrew Literature

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.

HEBR 502/3.0 Directed Reading in Hebrew

Directed Hebrew reading of material not covered in other courses, appropriate to the student's level.

PREREQUISITE Permission of the instructor or the Program Director.

HIST 121/6.0 The Intellectual Origins of the Contemporary West

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.

LEARNING HOURS 240 (36L;36S;168P)

HIST 122/6.0 The Making of the Modern World

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.

LEARNING HOURS 240 (48L;24S;24O;144P)

HIST 124/6.0 Canada in the World

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 240 (36L;36S;24O;144P)

EXCLUSION No more than 6.0 units from HIST 124/6.0; HIST 260/6.0; HIST 279/3.0; *HIST 278/3.0*.

HIST 125/6.0 The Evolution of Modern Europe

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 online. Consult Arts and Science Online.

HIST 200/3.0 India and the World

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, Gandhi 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.

NOTE Also offered online. Consult Arts and Science Online.

PREREQUISITE Level 2 or above.

HIST 201/3.0 Europe, 1572-1815

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.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE Level 2 or above.

HIST 205/3.0 The Atlantic World

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.

LEARNING HOURS 136 (36L;4G;96P)

PREREQUISITE Level 2 or above.

HIST 206/3.0 The United States in the Gilded Age and Progressive Era, 1868-1920

An introduction to the history of the United States during the turbulent period from 1868 until 1920. Topics may include industrialization, reform movements, mass consumption, corporations, imperialism, immigration, urbanization, the rise of segregation, agricultural transformation, art, and literature.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

HIST 207/3.0 Global Indigenous Histories

A survey of various historical case studies that will explore the causes, conflicts, and consequences that have occurred wherever indigenous peoples have encountered colonizing invaders. Significant questions will include who is indigenous?, who is not?, and can one speak of a global indigenous history?

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 130 (2T;25G;2O;101P)

PREREQUISITE Level 2 or above.

HIST 208/3.0 Introduction to Themes in Canadian History I

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

HIST 209/3.0 Introduction to Themes in Canadian History II

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

HIST 210/3.0 The History of Sexuality in Canada

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.

LEARNING HOURS 120 (36L;12O;72P)

PREREQUISITE Level 2 or above.

HIST 211/3.0 The Cold War

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.

NOTE Also offered online. Consult Arts and Science Online.

PREREQUISITE Level 2 or above.

HIST 212/3.0 Experiential Learning in Historical Practice

Offers credit for non-academic work in historical practice. Examples include but are not limited to work in museums, archives, historic sites, NGOs, etc. Several internships are negotiated and advertised by the Department. Student-initiated proposals will also be considered. After the work has been completed, a ten-page report is required.

NOTE This course may be taken only once during a student's degree program.

LEARNING HOURS 130 (130Oc)

PREREQUISITE Level 2 or above and permission of the Department.

EXCLUSION No more than 1 course from HIST 212/3.0, HIST 501/6.0, HIST 502/3.0.

HIST 213/6.0 Comparative Public Policy

Examines the rise of the welfare state since 1945 in North America and Western Europe. Topics include broad trends like deindustrialization, globalization, the rise of inequality, and social mobility. Specific policies discussed concern health care, pensions, unemployment, families, taxation, immigration, higher education, and public housing.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 1 course from HIST 213/6.0; HIST 253/3.0; HIST 240/6.0 (2013-14).

HIST 214/3.0 Food in Global History

This online course will attempt to study aspects of global history using food as a central theme. We begin from the reflection that food has successfully transcended political and cultural boundaries in the global past, and it provides a promising path for interrogating socio-economic and cultural issues in transnational contexts.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 126 (54O;72P)

PREREQUISITE Level 2 or above.

HIST 215/3.0 Sport and the Spectacle of Violence from Antiquity to the Renaissance

Sports and spectacles of violence, from Ancient Greek athletic contests and Roman gladiatorial combat to jousts, hunts, executions, and mock battles of Medieval and Renaissance Europe. Exploring ruins of buildings, texts, and images illuminate such issues as gender roles, social and political functions of violence, eroticism, and animal cruelty.

LEARNING HOURS 114 (36L;36O;42P)

PREREQUISITE Level 2 or above.

HIST 216/3.0 U.S. Civil War and Reconstruction

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 1 course from HIST 216/3.0; HIST 304/6.0.

HIST 218/3.0 Byzantium

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.

LEARNING HOURS 127 (36L;91P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than one course from HIST 218/3.0; HIST 301/6.0.

HIST 219/3.0 "Canada": The History of an Idea

A course exploring the many meanings of "Canada", "Canadian", and "Canadien" from the 1300s to today. Asking "What is Canada?" the course is a historical overview giving particular attention to the political, demographic, ethnological and colonial changes that altered these definitions over time and what/who the name refers to.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

HIST 221/3.0 Jewish and World Civilizations (until 1492)

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

HIST 222/3.0 Jewish and World Civilizations (since 1492)

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

HIST 224/3.0 Religion in Canadian Francophone Communities

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.

NOTE Also offered online. Consult Arts and Science Online.

PREREQUISITE Level 2 or above.

HIST 225/3.0 The Early Middle Ages

An introduction to Medieval Europe from the fall of Rome to the 11th century including the history of the Church, monasticism, the conversion of Europe and Carolingian Empire. The course will cover the disintegration of the Roman Empire and the subsequent emergence of new kingdoms and social structures.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 1 course from HIST 225/3.0; HIST 250/6.0.

HIST 226/3.0 The Later Middle Ages

An introduction to the main themes of the history of the Latin West between the 11th and 15th centuries including changes in the economy, society, religion, culture, and politics.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 1 course from HIST 226/3.0; HIST 250/6.0.

HIST 241/3.0 Issues in History

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

HIST 242/3.0 Issues in Canadian History

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

HIST 243/3.0 The Crusades

A general introduction to the history of the Crusades and holy war in the medieval period. Western, Muslim and Byzantine perspectives will be considered.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 2 or above.

ONE-WAY EXCLUSION May not be taken with or after HIST 430/6.0.

HIST 244/3.0 Selected Topics in History

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.

LEARNING HOURS 120 (36L;84P)

HIST 245/3.0 Imperial Russia

A survey of Russian history from the reign of Peter the Great to the Russian Revolution of 1917. Developments in cultural and intellectual history will be highlighted. Particular emphasis will be placed on debates over Russia's relationship with the West and Westernization.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

HIST 246/3.0 The Soviet Experiment

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.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE Level 2 or above.

HIST 252/3.0 Africa in the Modern World

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 Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

HIST 253/3.0 History of Public Policy

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'.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 1 course from HIST 213/6.0; HIST 253/3.0; *HIST 240/6.0 (2013-14)*.

HIST 255/3.0 Renaissance and Reformation Europe

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.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 2 or above.

HIST 256/3.0 The Making of the North American Environment

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 Also offered online. Consult Arts and Science Online.

PREREQUISITE Level 2 or above.

HIST 257/3.0 Environmental History

A global survey of the effects of human activity on our physical surroundings and vice versa, in pre-agricultural, agricultural 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

Examines the history of slavery in the United States and Canada from the colonial era to the mid nineteenth-century.

Various approaches will be emphasized.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

HIST 260/6.0 Canada from the Conquest to the Present

An introduction to some of the major themes in the social, cultural, economic and political history of Canada.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 260 (144O;120P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 6.0 units from HIST 124/6.0; HIST 260/6.0; HIST 279/3.0; *HIST 278/3.0*.

HIST 261/3.0 History of Acadia 1604 to Today

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.

LEARNING HOURS 132 (36L;36O;60P)

PREREQUISITE Level 2 or above.

HIST 263/3.0 War in the Twentieth Century: Myths and Reality

A blended online/classroom course that will introduce students to armed forces in modern history, and how they relate to the societies they function within and against.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (12L;24G;12O;72P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 1 course from HIST 263/3.0; HIST 322/6.0.

HIST 267/3.0 Modern Middle East

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 6.0 units from HIST 267/3.0; HIST 305/6.0.

HIST 269/3.0 Politics and the State in Canada to 1896

How political power was conceived, exercised, and contested in the aboriginal, French and British colonial, and early-national formations in what is now Canada. The origins and nature of liberal democracy and changing forms of popular political participation, schooling, and the criminal law receive particular attention.

LEARNING HOURS 116 (36L;24O;56P)

PREREQUISITE Level 2 or above.

HIST 270/3.0 Contemporary China

Contemporary China aims to place the dynamics of recent social and economic change in historical perspective. Rather than proceeding both thematically and chronologically, it familiarizes students with the deep continuities with the phenomena such as urbanization, environmental challenges, cultural expectations, and gender norms.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (48O;72P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 3.0 units from HIST 270/3.0; HIST 299/3.0.

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 Only offered online. Consult Arts and Science Online.

PREREQUISITE Level 2 or above.

HIST 273/3.0 New Imperialism

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'.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

HIST 274/3.0 Cultural History of Modern France

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 279/3.0 20th-Century Canada

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 6.0 units from HIST 124/6.0; HIST 260/6.0; HIST 279/3.0; *HIST 278/3.0*.

HIST 280/6.0 Gender in North American History

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 online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 240 (72O;168P)

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

This course highlights the experiences of women in European history. Topics include: changing ideas about male and female identities, family formations, and sexual politics.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 1 course from HIST 280/6.0; HIST 281/3.0.

HIST 283/3.0 The Making of the Third World II

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EQUIVALENCY *HIST 232/3.0*.

HIST 285/3.0 Latin America to 1850: The Colonial Experience

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.

LEARNING HOURS 129 (33L;24O;72P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 6.0 units from HIST 285/3.0; HIST 302/6.0.

HIST 286/3.0 Latin America from 1850 to Today: The Modern Era

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.

EXCLUSION No more than one course from HIST 286/3.0; HIST 315/6.0.

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.

LEARNING HOURS 123 (39L;84P)

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.

LEARNING HOURS 123 (39L;84P)

PREREQUISITE Level 2 or above.

HIST 289/3.0 Britain since 1851

A survey of British history in the 19th and 20th centuries.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 6.0 units from HIST 289/3.0; HIST 329/6.0.

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.

LEARNING HOURS 120 (36L;84P)

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.

LEARNING HOURS 120 (36L;84P)

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.

LEARNING HOURS 120 (36L;84P)

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.

LEARNING HOURS 129 (77L;52P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than one course from HIST 295/3.0; HIST 306/6.0.

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 6.0 units from HIST 296/3.0; HIST 305/6.0.

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.

EXCLUSION No more than 3.0 units from HIST 270/3.0; HIST 299/3.0.

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.

LEARNING HOURS 240 (34.5L;36S;1.5T;168P)

PREREQUISITE Registration in a HIST Major or Medial Plan.

EXCLUSION No more than one course from HIST 218/3.0; 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.

LEARNING HOURS 240 (34.5L;36S;1.5T;168P)

PREREQUISITE 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.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE 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.

LEARNING HOURS 240 (34.5L;36S;1.5T;168P)

PREREQUISITE Registration in a HIST Major or Medial Plan.

EXCLUSION No more than 1 course from HIST 304/6.0 or HIST 216/3.0.

HIST 305/6.0 Muslim Societies

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.

LEARNING HOURS 240 (34.5L;36S;1.5T;168P)

PREREQUISITE Registration in a HIST Major or Medial Plan.

EXCLUSION No more than 6.0 units from HIST 267/3.0; HIST 305/6.0.

EXCLUSION No more than 6.0 units from HIST 296/3.0; HIST 305/6.0.

HIST 306/6.0 Holocaust: Problems and Interpretations

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.

LEARNING HOURS 240 (34.5L;36S;1.5T;168P)

PREREQUISITE Registration in a HIST Major or Medial Plan.

EXCLUSIONS No more than one course from HIST 295/3.0; HIST 306/6.0.

HIST 310/6.0 Introduction to Modern India: Nationalism, Modernity, Postcolonialism

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.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE Registration in a HIST Major or Medial Plan.

HIST 312/6.0 Canadian Social History

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.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE Registration in a HIST Major or Medial Plan.

HIST 313/6.0 British North America, 1759-1867

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.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE 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

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.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE Registration in a HIST Major or Medial Plan.

HIST 315/6.0 Modern Latin American History: Sources and Debates

In first semester, students join with the lecture course 'Latin America 1850-Today'. In second semester, students deepen their exploration of Latin America's modern history in a seminar format, with emphasis on major controversies, critical reading of historical sources and texts, speaking, research, and writing skills.

NOTE In Fall Term, HIST 315/6.0 meets in the same classroom with HIST 286/3.0.

LEARNING HOURS 240 (34.5L;36S;1.5T;168P)

PREREQUISITE Registration in a HIST Major or Medial Plan.

EXCLUSION No more than one course from HIST 286/3.0; HIST 315/6.0.

HIST 316/6.0 European Politics and Society Since 1789

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.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE Registration in a HIST Major or Medial Plan.

HIST 318/6.0 Modern East Asia

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.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE Registration in a HIST Major or Medial Plan.

HIST 321/6.0 Social and Cultural Change in Europe, 1500-1800

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.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE Registration in a HIST Major or Medial Plan.

HIST 322/6.0 War and Modern Society

A study of the conduct of war and its implication for society and culture, principally in the 19th and 20th centuries.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE Registration in a HIST Major or Medial Plan.

EXCLUSION No more than 1 course from HIST 263/3.0; HIST 322/6.0.

HIST 323/6.0 Modern European Thought and Culture

An examination of selected themes in the cultural and intellectual history of Europe from 1750 to the present.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE Registration in a HIST Major or Medial Plan.

HIST 324/6.0 Race and Immigration in North America

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'.

LEARNING HOURS 240 (72S;168P)

PREREQUISITE Registration in a HIST Major or Medial Plan.

HIST 329/6.0 Modern Britain

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 some years, HIST 329/6.0 will meet in the same classroom as HIST 289/3.0 in the Fall.

LEARNING HOURS 228 (72S;72O;84P)

PREREQUISITE Registration in a HIST Major or Medial Plan.

EXCLUSION No more than 6.0 units from HIST 289/3.0; HIST 329/6.0.

HIST 330/3.0 Topics in History

Course on a selected historical topic, with a significant field component. Topics change from year to year. Consult department website for details.

NOTE Also offered in the Queen's-Blyth International Studies program

LEARNING HOURS 114 (18L;18Lb;18T;60P)

PREREQUISITE Level 3 or above and registration in a HIST Plan, or permission of the Department.

HIST 332/3.0 Medieval Britain

Combining history and archaeology, this course explores the key developments of Medieval England from the formation of the Anglo-Saxon kingdoms to the late 15th century Wars of the Roses. A significant proportion of this course will be devoted to the study of material culture, the practice of archaeology and the excavation of medieval sites.

NOTE Offered only at the Bader International Studies Centre, Herstmonceux.

LEARNING HOURS 119 (22.5L;7.5S;8Lb;16T;35G;30P)

HIST 333/4.5 Southern Africa to c.1890

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 334/4.5 Southern Africa from c.1890

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 335/9.0 The Age of Jackson

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 337/4.5 Contested Legacies of the Ottoman Empire

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 338/4.5 Western World Ethnohistory

An introduction to European schools of ethnohistory which examine First World minority cultures, groups, and social classes within the Occidental hegemony, by focussing on the intersections of oral history, folklore, anthropology and sociology at the convergence of ethnicity, race, nationality, gender, class, sexuality and imperialism.

LEARNING HOURS 180 (36S;240;120P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 339/4.5 Jews Without Judaism

This course explores the North American Jewish engagement with modern ideologies such as secularism, antisemitism, liberalism, nationalism, socialism, feminism, and neo-conservatism. Other specific topics include the secularization of universities; the recent retrenchment of Orthodox Judaism; and the resurgence of 'popular atheism'.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 340/9.0 French Canada, 1830-2000

The growth of French Canada since the early nineteenth century and the development of its relations with the rest of the country.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 341/9.0 The Reformation

This course offers a balanced introduction to the Reformation. The seminar takes a critical approach to a broad range of subjects including late medieval religion, Christian humanism, Luther, Zwingli, Calvin, Radical Reformation, Reformation beyond German lands, social and cultural impact of the Reformation, and Catholic Reformation.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 344/4.5 Plural Visions: New World Jews and the Invention of Multiculturalism

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 348/9.0 Prophets and Populists, Ranters and Rebels

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 349/4.5 Early Modern European Intellectual History

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 351/4.5 War, Reform and Revolution in Russian History

Our seminar will examine political, economic, social, and cultural aspects of the history of Russia from 1700 to the present. We will focus on the most pivotal moments of Russian history – major wars, reforms, and revolutions and study the ways they changed Russia as well as resistance to these changes.

LEARNING HOURS 180 (36S;36O;108P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

EXCLUSION HIST 400/4.5-002 (Fall Term 2016-17) and HIST 400/4.5-003 (Fall Term 2015-16).

HIST 352/4.5 Northeast Africa from 1850s

This course examines Northeast African social, political and economic history since the mid-19th century. Topics include: birth of modern nation states in the region, onset of European colonialism, regional and international rivalry due to the region's global geostrategic significance, independence, post-independence challenges and opportunities.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 353/4.5 Revolutions and Civil Wars in Twentieth-Century Latin America

Research seminar on revolutions, civil wars, and political violence in twentieth-century Latin America. Includes case studies of Mexican and Cuban revolutions, Central American civil wars, and other insurgencies. Explores theories of revolution, patterns of unrest, and attempts to bring about revolutionary change.

LEARNING HOURS 170 (36S;2I;6O;126P)

PREREQUISITE A grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 354/4.5 Jews on Film

This course explores the Jewish presence in the American media and how historical events affected the way in which Jews and Jewish issues have been represented on screen, from the beginning of Hollywood's founding to the present.

LEARNING HOURS 180 (36S;36O;108P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

EXCLUSION HIST 400/4.5-003 (Fall Term 2016-17 and Winter Term 2015-16); HIST 400/4.5-001 (Fall Term 2014-15 and Winter Term 2013-14); HIST 400/4.5-002 (Winter Term 2012-13).

HIST 356/9.0 Health and Disease in Western Society

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 359/9.0 Ontario

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 360/4.5 War and Peace in 20th-Century Western Culture I

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 361/4.5 War and Peace in 20th-Century Western Culture II

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 363/4.5 The British Isles in the 20th Century

The economic, social and political changes which characterized the United Kingdom's transformation in the 20th century.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 364/4.5 Imperial Borderlands: Russia and the Soviet Union

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 365/4.5 History Outside the Book

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 367/9.0 Utopian Visions and Movements for a New Society

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 390/9.0 Topics in History

Seminar on a selected topic in history. 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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 391/9.0 Topics in Canadian History

Seminar on a selected topic in Canadian history. 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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 400/4.5 Topics in History

Seminar on a selected topic in history. 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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 401/4.5 Topics in Canadian History

Seminar on a selected topic in Canadian history. 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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 404/4.5 Themes in Diaspora History

Theoretical and methodological approaches to the study of diaspora, and the social and cultural history of diasporic communities in the early modern and modern world. Labour, trade and migration; race, religion and identity; tensions between national, imperial and diasporic formations are explored with a focus on a specific historical example.

LEARNING HOURS 186 (36S;6Pc;24O;120P)

PREREQUISITE A grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 405/9.0 U.S. Public Policy and Society since 1945

Key trends and issues in U.S. economy, society and politics such as rising inequality and falling social mobility levels; changes in family structures; racial diversions; globalization, de-industrialization, and the plight of the middle class. Health, education, housing, social security, welfare and tax policy examined.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

EXCLUSION No more than 9.0 units from HIST 390/9.0-003 (2015-16) and HIST 405/9.0.

HIST 406/4.5 Hunger in Modern European History

This course probes the nature and meaning of hunger in Modern European History. Students will critically examine the causes of hunger in the modern era and explore how Europeans conceived of and sought to manage hunger. Topics include colonial and Soviet famines, the World Wars, humanitarianism, poverty and the welfare state, and the cold war.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

EXCLUSION No more than 4.5 units from HIST 400/4.5-001 (Fall 2015); HIST 400/4.5-002 (Winter 2018); HIST 406/4.5.

HIST 407/4.5 Muslims and Islam in South Asia

History of Islamic modernities and Muslim lives in South Asia from the sixteenth century to the present. Themes include early modern Islamic culture; the social history of the Mughal world; local Islamic healing cultures and legal traditions; the languages of secularism and political Islam in India, Pakistan and Bangladesh.

LEARNING HOURS 180 (36S;24Pc;120P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 410/9.0 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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

EXCLUSION No more than 1 course from HIST 411/4.5; HIST 410/6.0.

HIST 411/4.5 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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

EXCLUSION No more than 1 course from HIST 411/4.5; HIST 410/6.0.

HIST 412/4.5 One Land, Many Narratives, Israel/Palestine

A dialogue seminar on the geographical, historical, and cultural setting of the Land of Israel/Palestine; impact of foreign powers and ideas; its role in religious and political thought; nationalism; construction of narratives, competition for hegemony and territory; attempts to divide the land; the role of dialogue between Palestinians and Jews.

LEARNING HOURS 180 (36S;36O;108P)

PREREQUISITE A grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

EXCLUSION No more than 4.5 units from HIST 400/4.5-001 (Fall 2016-17); HIST 400/4.5-002 (Fall 2015-16); HIST 400/4.5-003 (Fall 2013-14 and Winter 2014-15); HIST 396/4.5 (Fall 2011-12); HIST 412/4.5.

HIST 413/4.5 Jews/Muslims in Enlightenment

The Enlightenment used reason to make boundaries between Christian Europe and Jews and Muslims, establishing the foundation for racism, orientalism, and colonialism, which led intellectuals to formulate The Jewish Question and The Eastern Question, and societies continue to seek solutions as they struggle with antisemitism and Islamophobia.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

EXCLUSION No more than 4.5 units from HIST 400/4.5-001 (Winter 2016-17); HIST 400/4.5-001 (Winter 2015-16); HIST 413/4.5.

HIST 415/4.5 Postcolonial Theory and French Canada

An introduction to postcolonial theory through case studies from Quebec, 19th-20th centuries. Exploring issues of colonialism, hegemony, decolonization and postcolonialism, how they apply to Quebec's history, and how Quebec thinkers used them to support their ideas. Major themes: identities, family, gender, Catholic Church, nationalism, ethnicity.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 416/4.5 Material History in Canada

Introduction to the basics of material history analysis focussing on the 'stuff' of everyday life in Canada, and how it has shaped Canadian identities and cultures since 1900. The main goal is to show students how artifacts can inform and enrich historical inquiry by integrating methodological frameworks from archaeology, anthropology, etc.

LEARNING HOURS 180 (6L;30S;24O;120P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 418/9.0 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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 419/9.0 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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 420/9.0 Culture and Society in Cold War America

This course explores the impact of the Cold War on the American home front between 1945 and 1991. Topics include reactions to the atomic bomb, the role of civil defense, McCarthyism, the culture of consumption, and the impact of the Cold War on the family, politics, religion, science, the arts, and social movements.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 421/9.0 The Russian Revolution

Beginning with the development of revolutionary movements in the late 19th century, this course will examine major problems in the history of the Russian Revolution and the former Soviet Union. Special emphasis will be placed on the first two decades of Soviet rule and the Stalin period.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 422/9.0 The French Revolution

An examination of the French Revolution and the historiographical debates it has engendered. Themes to be explored include revolutionary political culture, art and festivals, democracy and political representation, how the Revolution affected women, the Revolution in the countryside, Counterrevolution, the nature of the Terror, and revolution in the colonies.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 424/4.5 Cultural History of Enlightenment France

An examination of how the Enlightenment changed French culture, focusing on key ideas of cultural development and stagnation, changing sensibility and sociability, and cultural institutions and venues, from the academy and salon to the coffeehouse and Revolutionary festival.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 425/9.0 Black Experience in Canada

Examines the Black experience in Canada from the 16th to 20th centuries. Topics include slavery, the arrival of the Black Loyalists, the migration of fugitive slaves, abolitionism, creation of Black communities and institutions. Twentieth century themes include military and labour participation, social activism, Caribbean migration.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 427/9.0 Modern European Society

An intensive examination of the major themes and controversies in European social, cultural, and political history since the late 18th century. Emphasis on France, England, Germany and Russia. Topics include the social impact of the Industrial Revolution and urbanization; the rise of the middle class; Marxism; separate sphere ideology and feminism; nationalism; fascism; communism; and consumerism.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 428/4.5 Slavery and the Law in North America, 1600-1865

This course examines the intertwined histories of slavery and the law in North America from the colonial era until the end of the American Civil War. It explores how the law shaped the contours of slave societies (and societies with slaves), and the key institutions that sanctioned and supported slavery in its creation.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

EXCLUSION No more than 4.5 units from HIST 401/4.5-001 (Winter 2013); HIST 401/4.5-001 (Winter 2015); HIST 428/4.5.

HIST 429/9.0 American Thought and Culture

Primary emphasis is placed on social and intellectual developments in the 19th century.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 430/9.0 The Crusades and the Latin Kingdoms

An exploration of key topics in the history and interpretation of the Crusades, the society and culture of the Latin Kingdoms, and their impact on the peoples of the eastern Mediterranean, Muslim and Christian.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 431/4.5 Atlantic Canada

The political, social, cultural and economic development of the Maritimes and Newfoundland from the early 17th century to the present.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 432/9.0 Economy and Culture in Nineteenth Century America

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 433/9.0 Power, Authority and the State in Early Canada

An advanced survey of how power and authority were understood, exercised, and challenged in Canada before 1896. Topics include political cultures and ideologies, tools of governance such as the law and schools, popular political participation and protest, nationalism, citizenship, and the emergence of the modern, liberal state.

LEARNING HOURS 360 (72S;240;264P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 434/9.0 The Canadian Left in the Twentieth Century

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 435/4.5 Global, World, and Transnational History

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 436/4.5 Topics in Canadian Legal History

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 437/9.0 Religion and North American Society

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 438/4.5 The Historical Imagination

This course focuses on the individual ingredients – including choosing viable sources, chronological plotlines and framing episodes and events – that historians use to construct historical narratives and ultimately gain a deeper understanding of what constitutes "History".

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

EXCLUSION No more than 4.5 units from HIST 400/4.5-004 (Fall 2017); HIST 438/4.5.

HIST 439/4.5 Schooling Canadians

This seminar explores the history of schooling in Canada in its political, social and cultural contexts. Topics may include the development of the public education system, the feminization of teaching, Native residential schools, the relationship of education to racial, gender, class and sexual hierarchies, and changes in pedagogy and curriculum.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

EXCLUSION No more than 4.5 units from HIST 401/4.5-001 (Fall 2017); HIST 439/4.5.

HIST 440/4.5 Britain in the Enlightenment Era

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 441/4.5 Medieval Greece

An examination of the complex political, social, and cultural history of the region now thought of as Greece, from the emergence of the Byzantine empire to the start of Ottoman domination (4th to 15th centuries CE). Attention will be paid to historiography and its role in imagining the 'orient' and constructing the Modern Greek national identity.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

EXCLUSION No more than 4.5 units from HIST 400/4.5-002 (Fall 2012); HIST 400/4.5-002 (Winter 2016); HIST 439/4.5.

HIST 442/4.5 New World Societies

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 446/4.5 Gender, Sexuality and Race in South Asia

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 447/4.5 Sex and the History of Medicine

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 449/4.5 Topics in Medieval Mediterranean History

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 451/9.0 The Experience of War in 20th Century Europe

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 452/4.5 African Decolonization and In-Dependence

This course examines contemporary African political and economic history from the euphoric days of independence through the tumultuous decades of famines and pandemics to 'Africa rising' and the 'war on terror'. Topics include European late colonial rule, ascent to independence, structural readjustment programs.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 455/9.0 Heresy, Holiness and Idolatry in the Iberian Atlantic

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 456/4.5 Islam and Muslims in World History

Thematic approach to the history of the Muslim world in a cross-cultural, trans-regional, and global perspective. Topics vary, and may include but are not limited to religion and state, gender, nomadism, migration and refugees, commodities and resources, war, diaspora.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 458/9.0 The Social History of Modern Canada

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 459/9.0 British Culture and Society, 1780-1914

An exploration of approaches to 'community' and 'society' in British thought and culture from the late 18th to the early 20th century.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 460/9.0 The British and India, 1765-1947

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 461/4.5 Race and Ethnicity in Latin America 1492 to the Present

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 462/4.5 Social History of Modernizing Latin America 1860 to 1960

The history of everyday life in Latin America from 1860 to 1960, a century of global economic and cultural change. Themes include urbanization, the "social question", state and class formation, gender roles, crime, science and technology.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 463/4.5 Liberalism, Authoritarianism and Citizenship in Latin America

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 464/9.0 The History of Sexuality

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 465/9.0 Topics in Women's History

Comparative studies in the history of women and their experiences. Topics will vary from year to year.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 467/9.0 First Nations of North America

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 468/9.0 Topics in Modern European Intellectual and Cultural History

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 470/4.5 The Development of Capitalism in Africa

An examination and discussion of the economic and social history of Sub-Saharan Africa with a primary focus on the 19th and 20th centuries.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 476/9.0 Canada at War

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.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 479/9.0 The Theory and Practice of Development

An exploration of the history of the theory and practice of development with particular reference to Tropical Africa.

LEARNING HOURS 360 (72S;288P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 481/4.5 History vs Pseudohistory

Students explore the prevalence of pseudohistory in Canadian popular media and apply critical tools to identify these modern myths. From ancient aliens to destroyed civilizations, why does history inspire theories about lost civilizations, dark conspiracies, apocalyptic predictions or mysterious technologies? How do we tell the truth from the bunk?

LEARNING HOURS 168 (36S;36O;96P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 482/4.5 Historiography of Medicine

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 484/4.5 Topics in Irish History, 1798 to the Present

An exploration of topics in the social, cultural, political and economic history of Ireland from the Rising of 1798 onwards.

LEARNING HOURS 180 (36S;144P)

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 488/4.5 Nobel Prize in Medicine: Who won it; Who didn't; and Why?

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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 498/4.5 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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 499/4.5 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.

LEARNING HOURS 180 (36S;144P)

PREREQUISITE A Grade of C+ in 6.0 units from HIST 300-329 and registration in a HIST Major or Medial Plan.

HIST 501/6.0 History/Queen's Archives Internship

Offers credit for archival work undertaken in conjunction with Queen's University Archives. One month before the beginning of the term during which the work will be undertaken, students must submit an application to the Chair of Undergraduate Studies requesting credit hours commensurate with the project's learning hours.

NOTE This course may be taken only once during a student's degree program.

LEARNING HOURS 240 (216Pc;24P)

PREREQUISITE Level 2 or above and permission of the Department.

EXCLUSION No more than 1 course from HIST 212/3.0, HIST 501/6.0, HIST 502/3.0.

HIST 502/3.0 History/Queen's Archives Internship

Offers credit for archival work undertaken in conjunction with Queen's University Archives. One month before the beginning of the term during which the work will be undertaken, students must submit an application to the Chair of Undergraduate Studies requesting credit hours commensurate with the project's learning hours.

NOTE This course may be taken only once during a student's degree program.

LEARNING HOURS 120 (108Pc;12P)

PREREQUISITE Level 2 or above and permission of the Department.

EXCLUSION No more than 1 course from HIST 212/3.0, HIST 501/6.0, HIST 502/3.0.

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.

LEARNING HOURS 240 (24I;24O;192P)

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.

LEARNING HOURS 120 (120P)

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.

EXCLUSION No more than 1 course from *HIST 516/6.0*; HIST 517/3.0.

HLTH 101/3.0 Social Determinants of Health

This course introduces students to basic concepts in public, population and global health, and introduces social determinants of health, such as poverty, income inequality, and racism, in Canadian and global contexts.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Study Centre. Learning Hours may vary.

LEARNING HOURS 117 (12L;9T;24O;72P)

HLTH 102/3.0 Personal Health and Wellness

This course provides an introduction to the variety of factors which could affect a person's health and wellness.

NOTE Not available to students in a PHED or KINE Plan.

NOTE Also offered at the Bader International Study Centre. Learning Hours may vary.

LEARNING HOURS 108 (36L;72P)

ONE-WAY EXCLUSION May not be taken with or after 12.0 units in KNPE (formerly PPHE; PHED; KINE).

HLTH 200/3.0 Physical Fitness and Wellness

An overview of principles of physical fitness and wellness with an emphasis on the planning and implementation of a personalized physical fitness program.

NOTE Not available to students in a KINE or PHED Plan.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE Level 2.

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*).

HLTH 205/3.0 Introduction to Health Promotion

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.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE Level 2 and registration in a HLTH Plan and HLTH 101/3.0.

EXCLUSION No more than 3.0 units from GLPH 271/3.0; HLTH 205/3.0; *BMED 271/3.0*.

HLTH 230/3.0 Basic Human Nutrition

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 online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 108 (36L;72P)

RECOMMENDATION 4U Biology.

PREREQUISITE Level 2.

EXCLUSION No more than 3.0 units from HLTH 230/3.0; NURS 100/3.0.

HLTH 235/3.0 Food Systems

This course introduces contemporary issues in the dominant food system and the ways in which food production, distribution and consumption produce and reproduce relations of power.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE GNDS 120/3.0 or GPHY 101/3.0 or HLTH 101/3.0 or SOCY 122/6.0 .

HLTH 237/3.0 Introduction to the Study of Alcohol and Drug Problems

An overview of conceptual and practical issues. Topics include drugs, drug action, theories on disordered use, treatment/recovery/healing, harm reduction, and public policy as well as the understanding of consciousness and altered states.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE PSYC 100/6.0.

HLTH 252/3.0 Introduction to Research Methods

This course provides an introduction to methods, techniques and approaches to research. 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.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE Level 2 or above and registered in a KINE, PHED or a (HLTH Major or Medial) Plan.

COREQUISITE 3.0 units from 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.

EXCLUSION No more than 3.0 units from BMED 270/3.0; HLTH 252/3.0.

ONE-WAY EXCLUSION May not be taken with or after: GPHY 240/3.0; PSYC 203/3.0; SOCY 210/3.0.

ONE-WAY EXCLUSION May not be taken with or after: GPHY 240/3.0; PSYC 203/3.0; SOCY 321/3.0; STAT 362/3.0.

HLTH 270/3.0 Movement Behaviours and Health

Movement is on a continuum that includes sleep, sedentary behaviour, and physical activity. This course will use primary prevention and life course approaches to study movement behaviour levels of the population, the influence of movement behaviours on health, and strategies for intervening on movement behaviours.

NOTE Not available to students in a KINE or PHED Plan.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE HLTH 102/3.0.

EXCLUSION No more than 3.0 units from HLTH 270/3.0; KNPE 255/3.0.

HLTH 300/3.0 Community-Based Internship

A community-based internship for Health Studies students to apply knowledge gained in theory-based courses and develop a range of professional skills. Internship opportunities vary year to year, subject to availability of an appropriate placement in a relevant workplace setting.

NOTE Students are expected to participate in professional development workshops offered by the SKHS Internship Coordinator and Career Services.

LEARNING HOURS 126 (18G;84Oc;24P)

PREREQUISITE (Level 3 or above and registration in a HLTH Major or Medial Plan) and minimum cumulative GPA of 1.90 and permission of the Internship Coordinator and Undergraduate Coordinator in the School of Kinesiology and Health Studies.

EXCLUSION No more than one course from HLTH 300/3.0; KNPE 300/3.0; KNPE 330/4.5; KNPE 336/3.0; KNPE 346/4.5.

HLTH 305/3.0 Fundamentals of Health Policy

An overview of the fundamentals of health policy with an emphasis on the Canadian context. Topics to be discussed include history of the Canadian public health care system; the Canada Health Act; the political and economic environment of the Canadian health care system; issue and challenges in Canadian health policy; and comparative perspectives.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above and HLTH 101/3.0.

EXCLUSION *HLTH 405/3.0*.

HLTH 315/3.0 Theory and Practice of Health Behaviour Change

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE 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

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(H) and BCHM(H) Plans.

LEARNING HOURS 120 (24L;6T;6G;84P)

PREREQUISITE [(KNPE 251/3.0 or STAT_Options) and HLTH 252/3.0] or [STAT_Options and registration in a LISC(H) or BCHM(H) Plan].

ONE-WAY EXCLUSION May not be taken with or after: EPID 301/3.0.

HLTH 331/3.0 Advanced Human Nutrition

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE HLTH 230/3.0 or NURS 100/3.0.

HLTH 332/3.0 Foundations for Understanding Disability: A Health Perspective

This course is designed to provide students with a solid understanding of disability and disability-related issues as they pertain to health, well-being, and quality of life. It will include an examination of the historical treatment of persons with disabilities through present day.

NOTE Also offered at the Bader International Study Centre. Learning Hours may vary.

LEARNING HOURS 112 (36L;40;72P)

PREREQUISITE Level 3 or above and [(registration in a HLTH, KINE, or PHED Plan) or registration at the BISC].

EXCLUSION No more than 3.0 units from HLTH 332/3.0; HLTH 397/3.0-001 (2015-16); HLTH 402/3.0 (2014-15 or earlier); *KNPE 333/3.0.*

HLTH 333/3.0 Contemporary Issues in Human Sexuality

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; HIV/AIDS; the history of marriage; and sexual violence.

LEARNING HOURS 120 (24L;12T;12G;72P)

PREREQUISITE Level 3 and registration in a PHED, KINE, or HLTH Plan.

HLTH 334/3.0 The Politics of Health and Illness

Explores cultural meanings of health and illness, the power dynamics through which these meanings are constructed, and related injustices in bodily experiences.

LEARNING HOURS 120 (24L;12T;84P)

PREREQUISITE Level 3 and registration in a PHED, KINE, or HLTH Plan and (HLTH 101/3.0 or KNPE 167/3.0 or SOCY 122/6.0).

HLTH 350/3.0 Topics in Global Health

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.

NOTE Also offered at the Bader International Study Centre. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE [(Level 3 or above and registration in a HLTH, KINE, or PHED Plan) or registration at the BISC] and HLTH 101/3.0.

HLTH 352/3.0 Research Skills Development Internship

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.

LEARNING HOURS 140 (12S;84Pc;48P)

PREREQUISITE KNPE 251/3.0 or NURS 323/3.0; Level 3 in a HLTH Plan; and permission of the course coordinator or the Undergraduate Coordinator in the School of Kinesiology and Health Studies.

COREQUISITE HLTH 252/3.0.

EXCLUSION No more than 3.0 units from HLTH 352/3.0 or KNPE 352/3.0.

HLTH 397/3.0 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.

NOTE Restricted to students in a concentration in health studies, kinesiology or physical and health education.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

HLTH 401/3.0 Interprofessional Collaborative Education

This course offers the theory and context of Interprofessional education and collaborative practice from a global policy viewpoint as well as the opportunity to develop and apply the required Interprofessional education core competencies.

NOTE This course falls under a selection of courses with a focus on Interdisciplinary Studies in Global Health and Disability that will be offered only at the Bader International Study Centre.

LEARNING HOURS 129 (39L;5S;21G;24Oc;40P)

PREREQUISITE Level 4 and a minimum GPA of 1.9 and registration at the BISC.

HLTH 402/3.0 Disability Studies: Issues, Research and Policy

This course is designed to advance student understanding of the field of disability studies through the examinations and analysis of disability issues in the global context. Current research and policy, controversial issues, and systems affecting people with disabilities worldwide will be the focus.

NOTE This course falls under a selection of courses with a focus on Interdisciplinary Studies in Global Health and Disability that will be offered only at the Bader International Study Centre.

NOTE Students who are unable to take HLTH 332/3.0 must complete the online training modules about the Accessibility for Ontarians with Disabilities Act prior to participation in the BISC Global Health and Disability Program. See

<http://www.queensu.ca/equity/accessibility/aoda>

LEARNING HOURS 127 (30L;18G;39Oc;40P)

PREREQUISITE Level 4 and a minimum GPA of 1.9 and HLTH 332/3.0 and registration at the BISC, or permission of the School.

HLTH 403/3.0 Community Based Rehabilitation

Explores global perspectives of Community Based Rehabilitation as a strategy for equalization of health, education and social inclusion of persons with disabilities. Design, implement and evaluate CBR programs and examine basic CBR frameworks, health and disability policy, global partnerships, education and training strategies.

NOTE This course falls under a selection of courses with a focus on Interdisciplinary Studies in Global Health and Disability that will be offered only at the Bader International Study Centre.

LEARNING HOURS 123 (42L;18G;23Oc;40P)

PREREQUISITE Level 4 and a minimum GPA of 1.9 and registration at the BISC.

HLTH 404/3.0 Global Studies of Social Inclusion, Community Participation and Mental Illness

While people with disabilities continue to experience challenges to their full and equal community participation, in the context of mental illness they are subject to particularly profound levels of social exclusion at a global level. We will examine current disability discourse as it relates to mental illnesses and exclusion of this population.

NOTE This course falls under a selection of courses with a focus on Interdisciplinary Studies in Global Health and Disability that will be offered only at the Bader International Study Centre.

LEARNING HOURS 120 (30S;20G;4I;10Oc;56P)

PREREQUISITE Level 4 and a minimum GPA of 1.9 and registration at the BISC.

HLTH 415/6.0 Program Design and Evaluation

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. The application of selected program design models will serve as a basis for the course.

NOTE In special circumstances, HLTH 315/3.0 may be taken concurrently with HLTH 415/6.0 in one's final year of the HLTH Major Plan. Permission of the Undergraduate Chair in the School of Kinesiology and Health Studies is required.

LEARNING HOURS 264 (36L;92Pc;36G;100P)

PREREQUISITE Level 4 and registration in a PHED, KINE, HLTH Major or Medial Plan and (HLTH 252/3.0 and HLTH 315/3.0).

EXCLUSION No more than one course from BMED 471/3.0; HLTH 415/6.0.

HLTH 430/3.0 Sociocultural Studies of Food

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.

LEARNING HOURS 120 (36S;84P)

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 434/3.0 Social Movements in Health

This course explores the proliferation of health social movements since the 1970s. Bringing together the interdisciplinary study of health and illness with 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.

LEARNING HOURS 120 (24S;12G;84P)

PREREQUISITE HLTH 333/3.0 or HLTH 334/3.0 or DEVS 320/3.0.

HLTH 435/3.0 Seminar on HIV/AIDS Prevention

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.

LEARNING HOURS 120 (24S;12G;84P)

PREREQUISITE HLTH 315/3.0.

HLTH 445/3.0 Critical Health Promotion

This course provides advanced study of the major theoretical and methodological approaches in critical health promotion. Students will be primarily exposed to academic literature across several disciplines that engage with critical health promotion. Case studies of health promotion practice that illustrate critical perspectives will be discussed.

LEARNING HOURS 120 (36S; 84P)

PREREQUISITE Level 4 and (registration in a KINE Specialization Plan, PHED Specialization Plan, or HLTH Major or Medial Plan) and (HLTH 205/3.0 or HLTH 315/3.0).

EXCLUSION No more than 3.0 units from HLTH 493/3.0-001 (2014/15 and 2015/16); HLTH 445/3.0.

HLTH 455/3.0 Health and Built Environments

This course will examine how characteristics and configurations of urban environments, such as urban sprawl, transportation, community design, housing, and food networks, may promote or impede health and well-being. This seminar-style course will be especially useful for students considering careers in public health and/or urban planning.

LEARNING HOURS 118 (36S;100c;72P)

PREREQUISITE Level 4 in a KINE Specialization Plan, PHED Specialization Plan, or HLTH Major or Medial Plan.

EXCLUSION No more than 3.0 units from HLTH 497/3.0 (if taken between 2012-2015; HLTH 455/3.0).

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.

LEARNING HOURS 126 (6I;120P)

PREREQUISITE 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.

LEARNING HOURS 126 (6I;120P)

PREREQUISITE 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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 in a PHED Specialization, KINE Specialization or (HLTH Major or Medial) Plan.

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 in a PHED Specialization, KINE Specialization or (HLTH Major or Medial) Plan.

HLTH 497/3.0 Special Topics in Health Studies

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 Also offered at the Bader International Study Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and (registration in a PHED Specialization, KINE Specialization, HLTH Major, or HTLH Medial Plan) or registration at the BISC.

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.

LEARNING HOURS 252 (12I;240P)

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 210/3.0 Arts in Society

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 Film and Media.

NOTE Field trips: estimated cost \$75.

LEARNING HOURS 108 (36L;24O;48P)

PREREQUISITE Level 2.

IDIS 220/3.0 Hacking the Humanities: An Introduction to the Digital Humanities

The course will work towards crafting a definition of the term 'digital humanities' through examining the way in which we create, use, and think about digital resources in humanities disciplines. Students will: learn the basic skills needed to create digital objects, use digital artifacts and tools specific to their own research interests, and engage in theoretical discussions.

NOTE Offered only at the Bader International Study Centre, Herstmonceux.

LEARNING HOURS 120 (18L;9S;9Lb;30O;24Oc;30P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 3.0 units from IDIS 220/3.0 and IDIS 221/3.0.

EXCLUSION No more than 3.0 units from IDIS 220/3.0 and IDIS 222/3.0.

IDIS 221/3.0 Digital Humanities I: Theorising the Digital User

How does a 'user' compare with a 'reader' or a 'viewer'? This course will equip students with perspectives and skills required to engage in a critical assessment of the use of technology in their current research practice. Students will be asked to evaluate digital resources using the skills of critical analysis native to humanities disciplines.

NOTE This course will only be offered at the BISC.

LEARNING HOURS 120 (36L;9Lb;12Oc;60P)

EXCLUSION No more than 3.0 units from IDIS 220/3.0 and IDIS 221/3.0.

IDIS 222/3.0 Digital Humanities II: The Theory and Practice of Digital Representation

Students will investigate the process of translating a text from print to digital form and how understandings of textuality, textual materiality, and readership aid in theorising this process. Students will be introduced to basic elements of the standard humanities mark-up language, TEIP5, in order to better enable them to understand this process.

NOTE This course will only be offered at the BISC.

LEARNING HOURS 120 (36L;9Lb;12Oc;60P)

EXCLUSION No more than 3.0 units from IDIS 220/3.0 and IDIS 222/3.0.

IDIS 280/3.0 Interprofessional Approaches in Healthcare

This course aims to prepare learners with the knowledge and capabilities for working within complex interprofessional environments common in the healthcare sector. The course introduces the basics of collaborative practice in healthcare and the related six interprofessional competencies.

NOTE Only offered online.

LEARNING HOURS 120 (72O;48P)

PREREQUISITE Level 2 or above or permission of the instructor.

IDIS 302/3.0 'Race' and Racism

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.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE Level 2.

IDIS 303/3.0 Mathematics and Poetry

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.

IDIS 304/3.0 British Studies I

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

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

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

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.

LEARNING HOURS 120 (36Pc;18G;66P)

PREREQUISITE Level 4 and registration in a STSC, FILM, ARTF, DRAM or MUSC Plan.

INDG 301/3.0**Indigenous Ways of Knowing**

This course will identify and examine characteristics and sources of Indigenous knowledge and pedagogies.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 or above or permission of the Department of Languages, Literatures and Cultures.

INTN 301/1.5 Professional Internship I

Part 1 of a 12-16 month, professionally supervised, career-related position designed to offer students the opportunity to learn about current advances, practices, and technologies in workplaces including business, industry, government, and community settings. Students will develop a range of workplace skills, learn about organizational culture, and expand their knowledge of career options.

NOTE Prior to undertaking the internship, workshops on resumé preparation and interview skills are required, coordinated by Career Services.

NOTE Students enroll in INTN 301/1.5 in the first term of the internship, INTN 302/1.5 in the second term of the internship, and INTN 303/3.0 in the final term(s) of the internship, for a total of 6.0 units.

PREREQUISITE Level 2 or 3 and a minimum GPA of 1.90.

INTN 302/1.5 Professional Internship II

Part 2 of a 12-16 month, professionally supervised, career-related position designed to offer students the opportunity to learn about current advances, practices, and technologies in workplaces including business, industry, government, and community settings. Students will develop a range of workplace skills, learn about organizational culture, and expand their knowledge of career options.

NOTE Students enroll in INTN 301/1.5 in the first term of the internship, INTN 302/1.5 in the second term of the internship, and INTN 303/3.0 in the final term(s) of the internship, for a total of 6.0 units.

PREREQUISITE INTN 301/1.5 and a minimum GPA of 1.90.

INTN 303/3.0 Professional Internship III

Part 3 of a 12 month, professionally supervised, career-related position designed to offer students the opportunity to learn about current advances, practices, and technologies in workplaces including business, industry, government, and community settings. Students will develop a range of workplace skills, learn about organizational culture, expand their knowledge of career options, and reflect on linkages between classroom knowledge and professional practice.

NOTE Students enroll in INTN 301/1.5 in the first term of the internship, INTN 302/1.5 in the second term of the internship, and INTN 303/3.0 in the final term(s) of the internship, for a total of 6.0 units.

PREREQUISITE INTN 302/1.5 and a minimum GPA of 1.90.

EXCLUSION No more than 1 course from INTN 303/3.0 and INTN 304/1.5.

INTN 304/1.5 Professional Internship III

Part 3 of a 16 month, professional supervised, career-related position designed to offer students the opportunity to learn about current advances, practices and technologies in workplace including business, industry, government and community settings. Students will develop a range of workplace skills, learn about organizational culture, expand their knowledge of career options and reflect on linkages between classroom knowledge and professional practice.

NOTE This course is intended for students participating in a 16 month internship. This is part 3 of 4.

PREREQUISITE INTN 302/1.5 and a minimum GPA of 1.90.

EXCLUSION No more than 1 course from INTN 303/3.0 and INTN 304/1.5.

INTN 305/1.5 Professional Internship IV

Part 4 of a 16 month, professional supervised, career-related position designed to offer students the opportunity to learn about current advances, practices and technologies in workplace including business, industry, government and community settings. Students will develop a range of workplace skills, learn about organizational culture, expand their knowledge of career options and reflect on linkages between classroom knowledge and professional practice.

NOTE This course is intended for students participating in a 16 month internship. This is part 4 of 4.

PREREQUISITE INTN 304/1.5 and a minimum GPA of 1.90.

EXCLUSION No more than 1 course from INTN 303/3.0 and INTN 305/1.5.

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

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/bisc

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

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/bisc

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

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

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 Studies Centre, Herstmonceux. Learning Hours may vary.

PREREQUISITE Level 2 or above.

INTS 307/3.0 Intercultural Relations

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.

PREREQUISITE Level 2 or above.

INTS 312/3.0 Seminar in Modern European Studies I

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/bisc

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

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/bisc

NOTE Offered only at the Bader International Study Centre, Herstmonceux.

PREREQUISITE Level 2 or permission of the instructor.

INTS 321/3.0 **Urban Images: Race, Gender, Sexuality and the Imagined City**

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 323/3.0 **International Perspectives in the Creative Arts I**

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/bisc

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**

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/bisc

NOTE Offered only at the Bader International Study Centre, Herstmonceux.

PREREQUISITE Level 2 in the relevant arts discipline.

INTS 363/3.0 **The Philosophy of International Law**

The course explores international and transnational law and institutions and the ways familiar principles might apply to them. We will ask questions such as: What is the source of the authority and legitimacy of international norms? How should we think of the rule of law or procedural justice in an international context? Can international institutions be democratic? Is there a moral basis to state sovereignty?

NOTE Offered only at the Bader International Study Centre, Herstmonceux.

LEARNING HOURS 116 (36L;80P)

RECOMMENDATION It is recommended but not required, that applicants have some academic background in international law and/or political or legal theory.

PREREQUISITE Level 3 or above.

INUK 101/3.0 Beginning Inuktitut Language and Culture

An introduction to the history and culture of the Inuit of Canada with particular emphasis on their language, Inuktitut, in both writing and speaking. This course is designed for those who have little or no exposure to the Inuit language nor the history of Canada's Inuit peoples.

LEARNING HOURS 120 (36L;84P)

EXCLUSION LLCU 101/3.0 (Topic: Inuktitut).

INUK 102/3.0 Beginning Inuktitut Language and Culture II

Continuation of INUK 101/3.0. This course builds on the foundation of INUK 101/3.0 expanding the student's knowledge of the vocabulary and structure which enables them to carry on limited conversation in selected everyday topics. This course will also provide an overview of the history and culture of the Inuit from the early 20th century to today.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE INUK 101/3.0.

ITLN 111/3.0 Beginning Italian I

Offers a basic level of Italian understanding, speaking, reading and writing for students with no knowledge of Italian whatsoever.

NOTE Also offered through the Venice Term Abroad Program. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

ONE WAY EXCLUSION May not be taken with or after ITLN 204/3.0; ITLN 205/3.0.

EQUIVALENCY *ITLN P10/3.0.*

ITLN 112/3.0 Beginning Italian II

The continuation of ITLN 112/3.0. 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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ITLN 111/3.0 or *ITLN P10/3.0.*

EXCLUSION No more than 6.0 units from ITLN 111/3.0; ITLN 112/3.0; *ITLN P10/3.0.*

ONE WAY EXCLUSION May not be taken with or after ITLN 204/3.0; ITLN 205/3.0.

ITLN 204/3.0 Italiano intermedio

A review of the fundamentals of the Italian language, designed to reinforce and develop the student's comprehension, speaking and writing ability.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ITLN 112/3.0.

ONE WAY EXCLUSION May not be taken with or after ITLN 205/3.0.

ITLN 205/3.0 Italiano avanzato

Emphasizing the application of morphology and syntax, with written and oral practice. Readings will be discussed from lexical, syntactical and thematic points of view.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in ITLN 204/3.0.

ITLN 310/3.0 Italy and the Classical Tradition

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 LLCU 210/3.0. Students concentrating in Italian submit written assignments, tests and exams in Italian. Normally students will read Italian texts in the original.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ITLN 205/3.0.

EXCLUSION No more than 3.0 units from ITLN 310/3.0; LLCU 210/3.0.

ITLN 326/3.0 Literature and Cinema

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 LLCU 226/3.0. Students concentrating in Italian submit written assignments, tests and examinations in Italian. Normally students will read Italian texts in the original.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ITLN 205/3.0.

EXCLUSION No more than 3.0 units from ITLN 326/3.0; LLCU 226/3.0.

ITLN 331/3.0 Survey of Italian Literature I

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 LLCU 233/3.0. Students submit written assignments, tests, and examinations in Italian.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ITLN 205/3.0.

EXCLUSION No more than 3.0 units from ITLN 331/3.0; LLCU 233/3.0.

ITLN 332/3.0 Survey of Italian Literature II

A survey of Italian literature, through selected texts of representative authors, from the eighteenth century to the present.
NOTE Taught in English together with LLCU 234/3.0. Students submit written assignments, tests, and examinations in Italian.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ITLN 205/3.0.

EXCLUSION No more than 3.0 units from ITLN 332/3.0; LLCU 234/3.0.

ITLN 357/3.0 Pirandello's Theatre

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 LLCU 257/3.0. Written work and exams are in Italian. Readings in translation.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ITLN 205/3.0.

EXCLUSION No more than 3.0 units from ITLN 357/3.0; LLCU 257/3.0.

ITLN 408/3.0 From Fellini to Benigni

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 LLCU 308/3.0. Students concentrating in Italian submit written assignments, tests, and examination in Italian.

LEARNING HOURS 120 (36L;36T;48P)

EXCLUSION No more than 3.0 units from ITLN 408/3.0; LLCU 308/3.0.

ITLN 415/3.0 Dante

A study of Dante Alighieri's life and poetry, especially the *Vita Nuova* and the *Divina Commedia*.

NOTE Taught in English together with LLCU 215/3.0. Students concentrating in Italian submit written assignments, tests and examinations in Italian. Normally they will read Italian texts in the original.

LEARNING HOURS 120 (36L;84P)

EXCLUSION No more than 3.0 units from ITLN 415/3.0; LLCU 215/3.0.

ITLN 432/3.0 From the Romantics to D'Annunzio

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 LLCU 232/3.0. Students concentrating in Italian submit written assignments, tests and examinations in Italian. Normally students will read Italian texts in the original.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE ITLN 205/3.0.

EXCLUSION No more than 3.0 units from ITLN 432/3.0; LLCU 232/3.0.

ITLN 501/3.0 Letteratura italiana: Temi scelti

Seminar course on topics in Italian literature. Course details to be announced on website.

PREREQUISITE Permission of the Department of Languages, Literatures and Cultures.

ITLN 502/3.0 Letteratura italiana: Studi indipendenti

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 Languages, Literatures and Cultures.

JAPN 100/6.0 Introductory Japanese I

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

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

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

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.

KNPE 125/3.0 Introduction to Human Physiology

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.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE Level 1 or above in a PHED, KINE or HLTH Plan.

EXCLUSION No more than 6.0 units from IDIS 150/6.0 or (KNPE 125/3.0 and KNPE 225/3.0) or (PHGY 215/3.0 and PHGY 216/3.0) or *PHGY 210/6.0* or *PHGY 212/6.0* or *PHGY 214/6.0*.

KNPE 153/3.0 Introductory Biomechanics

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.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE Level 1 or above in a PHED or KINE Plan.

KNPE 167/3.0 Socio-Cultural Dimensions of Sport and Physical Activity

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.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE Level 1 or above in a PHED or KINE Plan.

KNPE 203/3.0 The Art and Science of Coaching

This course provides an introduction to theoretical and methodological research on coaching, with a special emphasis on the influence of coaches' interpersonal knowledge/behaviours on athlete development. Concepts related to leadership, coach behaviours, and coach education will be explored.

LEARNING HOURS 108 (36L;72P)

RECOMMENDATION KNPE 237/3.0.

PREREQUISITE Level 2 or above in a PHED or KINE Plan and KNPE 265/3.0.

KNPE 225/3.0 Advanced Human Physiology

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.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE Level 2 or above and registration in a PHED, KINE or HLTH Plan and KNPE 125/3.0.

EXCLUSION No more than 6.0 units from IDIS 150/6.0 or (KNPE 125/3.0 and KNPE 225/3.0) or (PHGY 215/3.0 and PHGY 216/3.0) or *PHGY 210/6.0* or *PHGY 212/6.0* or *PHGY 214/6.0*.

KNPE 227/3.0 Exercise Physiology

An introduction to the basic components of physiology as they apply to health, fitness and exercise physiology.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE Level 2 or above in a PHED or KINE Plan and KNPE 125/3.0 and KNPE 225/3.0.

KNPE 237/3.0 Child and Adolescent Motor Development

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.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE Level 2 or above in a PHED or KINE Plan.

KNPE 251/3.0 Introduction to Statistics

An introduction to the analysis of data from real life situations. Covers study design, descriptive and inferential statistics. Topics include probability, t-tests, regression, Chi-square tests, analysis of variance. Emphasis is in the foundation of statistical inference and practical application of statistical methods using statistical software.

LEARNING HOURS 126 (12L;18Lb;48O;48P)

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; NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0; COMM 162/3.0.

KNPE 254/3.0 Biomechanical Analysis of Human Movement

Students will learn to apply the knowledge and skills acquired in KNPE 153 to conduct detailed analyses of human movement including how to analyze human movement using information obtained from different measurement tools. Examples will be used to demonstrate how biomechanics can be used to enhance and maintain human health, fitness and performance.

LEARNING HOURS 108 (24L;12T;72P)

RECOMMENDATION ANAT 315/3.0.

PREREQUISITE Level 2 or above in a PHED or KINE Plan and KNPE 153/3.0.

EXCLUSION KNPE 353/3.0.

KNPE 255/3.0 Physical Activity, Fitness and Health

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.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE Level 2 or above in a PHED or KINE Plan and KNPE 125/3.0.

COREQUISITE KNPE 225/3.0 and KNPE 227/3.0.

EXCLUSION No more than 3.0 units from HLTH 270/3.0; KNPE 255/3.0.

KNPE 261/3.0 Motor Learning and Control

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.

LEARNING HOURS 132 (30L;12Lb;6G;84P)

PREREQUISITE Level 2 or above in a PHED or KINE Plan and PSYC 100/6.0.

KNPE 265/3.0 Psychology of Sport and Exercise

This course will introduce both theoretical and applied/professional aspects of human social behaviour in sport and exercise settings.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE Level 2 or above in a PHED, KINE, or HLTH Plan.

COREQUISITE PSYC 100/6.0.

KNPE 300/3.0 Community-Based Internship

A community-based internship for Kinesiology and Physical Education students to apply knowledge gained in theory-based courses and develop a range of professional skills. Internship opportunities vary year to year, subject to availability of an appropriate placement in a relevant workplace setting.

NOTE Students are expected to participate in professional development workshops offered by the SKHS Internship Coordinator and Career Services.

LEARNING HOURS 126 (18G;84Oc;24P)

PREREQUISITE (Level 3 or above in a PHED Specialization or KINE Specialization Plan) and a minimum cumulative GPA of 1.90 and permission of the Internship Coordinator and Undergraduate Coordinator in the School of Kinesiology and Health Studies.

EXCLUSION No more than one course from HLTH 300/3.0; KNPE 300/3.0; KNPE 330/4.5; KNPE 336/3.0; KNPE 346/4.5.

KNPE 327/3.0 Exercise Physiology Laboratory

A laboratory experience designed to establish understanding of, and technical skills in, the measurement of human physiological responses and performance capacity in exercise. Students will develop familiarity with tests of physiological function during rest and exercise in preparation for work in human performance, clinical and medical settings.

NOTE Priority given to students in Level 3 of the KINE Specialization Plan followed by students in Level 3 of the PHED Specialization Plan.

LEARNING HOURS 126 (24L;36Lb;6I;12O;48P)

PREREQUISITE Level 3 or above in a PHED or KINE Plan and KNPE 125/3.0, KNPE 225/3.0, and KNPE 227/3.0.

KNPE 330/4.5 Athletic Therapy Field Placement

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 Students must hold valid First Aid/CPR certification and proof of completion of Athletic Therapy experience (36 hours) in second year.

LEARNING HOURS 177 (165Pc; 12P)

PREREQUISITE Level 3 or above in a PHED Specialization or KINE Specialization Plan and (ANAT 315/3.0 and KNPE 331/3.0) and (a GPA of 2.70) and permission of the course coordinator and the Undergraduate Coordinator in the School of Kinesiology and Health Studies.

EXCLUSION No more than one course from HLTH 300/3.0; KNPE 300/3.0; KNPE 330/4.5; KNPE 336/3.0; KNPE 346/4.5.

KNPE 331/3.0 Care and Prevention of Athletic Injuries

The care and prevention of common athletic injuries with emphasis placed on the practical portion of taping and wrapping of athletic trauma.

NOTE Lab materials: estimated cost \$15.

LEARNING HOURS 120 (24L;24Lb;72P)

PREREQUISITE Level 3 or above in a PHED or KINE Plan and ANAT 315/3.0 and ANAT 316/3.0.

KNPE 335/3.0 Healthy Aging

This course looks at what happens to the body as we age, including an examination of the physiological, psychological and emotional changes that occur during the aging process. The role of a healthy lifestyle in achieving quality of life as we age is a key perspective.

NOTE Also offered at the Bader International Study Centre. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (Level 3 or above and registration in a PHED, KINE or HLTH Plan) or registration at the BISC.

COREQUISITE HLTH 332/3.0.

KNPE 336/3.0 Community Field Placement in Exercise, Disability and Aging

Students gain experience assisting adults with a disability or age-related impairment to engage in exercise. Students develop an understanding of the nature of disability across the lifespan. The benefits of exercise, factors that promote exercise participation, and appropriate exercise prescription are addressed.

NOTE Students must hold valid First Aid/CPR certification.

LEARNING HOURS 132 (12S;84Pc;12O;24P)

PREREQUISITE Level 3 or above in a PHED or KINE Plan, or HLTH Major or Medial Plan and (a GPA of 2.70) and permission of the Course Coordinator and the Undergraduate Coordinator in the School of Kinesiology and Health Studies.

COREQUISITE HLTH 332/3.0.

EXCLUSION No more than one course from HLTH 300/3.0; KNPE 300/3.0; KNPE 330/4.5; KNPE 336/3.0; KNPE 346/4.5.

KNPE 337/3.0 Physical Activity Promotion for Children and Youth

This course explores topics such as theoretical models of motivation, interest, and interpersonal behaviours, and the design, implementation, and provision of inclusive physical activity environments for children/youth. This course emphasizes the application of theory through activity-based classroom sessions and community placements.

NOTE Transportation and other costs directly related to the student (e.g. required Criminal Checks) are the responsibility of the student.

LEARNING HOURS 126 (24L;18Lb;24Oc;60P)

PREREQUISITE Level 3 or above and registration in a KINE, HLTH Major or Medial Plan and (KNPE 237/3.0 or HLTH 270/3.0) and permission of the SKHS Undergraduate Coordinator.

EXCLUSION No more than one course from KNPE 337/3.0; PACT 237/3.0.

KNPE 339/3.0 Advanced Exercise Metabolism

This course focuses on aspects of skeletal muscle energy metabolism related to exercise, 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.

LEARNING HOURS 120 (36L;84P)

EQUIVALENCY *KNPE 427/3.0.*

PREREQUISITE Level 3 or above in a KINE Specialization Plan or PHED Specialization Plan and KNPE 225/3.0 and KNPE 227/3.0

KNPE 345/3.0 The Science and Methodology of Sport Training Conditioning Programs

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.

LEARNING HOURS 126 (36L;18Pc;12G;60P)

PREREQUISITE Level 3 or above in a PHED or KINE Plan and KNPE 227/3.0; Reserved for BPHEH, BSCH KINE students only.

COREQUISITE KNPE 254/3.0.

KNPE 346/4.5 Strength and Conditioning Field Placement

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 Students must hold valid First Aid/CPR certification and proof of completion of Athletic Therapy experience (36 hours) in second year.

LEARNING HOURS 168 (120Pc;24G;24P)

PREREQUISITE Level 3 or above in a PHED Specialization or KINE Specialization Plan and (ANAT 315/3.0 and KNPE 345/3.0) and (a GPA of 2.70) and permission of the course coordinator and the Undergraduate Coordinator in the School of Kinesiology and Health Studies.

EXCLUSION No more than one course from HLTH 300/3.0; KNPE 300/3.0; KNPE 330/4.5; KNPE 336/3.0; KNPE 346/4.5.

KNPE 352/3.0 Research Skills Development Internship

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.

LEARNING HOURS 140 (12S;80Pc;48P)

PREREQUISITE KNPE 251/3.0 or NURS 323/3.0; Level 3 in a PHED Specialization or KINE Specialization Plan; and permission of the course coordinator or the Undergraduate Coordinator.

COREQUISITE HLTH 252/3.0.

EXCLUSION No more than 3.0 units from HLTH 352/3.0 or KNPE 352/3.0.

KNPE 354/3.0 Occupational Biomechanics and Physical Ergonomics

An introduction to occupational biomechanics and physical ergonomics. The course will apply principles of biomechanics to describe relationships between job demands, functional/tissue capacities and work-related injury. Demand, capacity and injury risk evaluation tools will also be presented.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above in a KINE or PHED Plan and KNPE 254/3.0.

EQUIVALENCY *KNPE 253/3.0*

KNPE 355/3.0 Lifestyle and Cardiometabolic Assessment Laboratory

A lecture/laboratory experience designed to help prepare students to participate in a variety of multidisciplinary clinical and/or professional environments. Concept and skill development pertaining to exercise/lifestyle for general as well as selected special populations will prepare students for experiences in clinical and medical settings.

NOTE Priority given to students in Level 3 of the KINE Specialization Plan followed by students in Level 3 of the PHED Specialization Plan.

LEARNING HOURS 120 (12L;36Lb;72P)

PREREQUISITE Level 3 or above in a KINE or PHED Plan and KNPE 125/3.0, KNPE 225/3.0, KNPE 227/3.0 and KNPE 255/3.0.

KNPE 363/3.0 Psychology of Sport and Performance

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above in a PHED or KINE Plan and KNPE 265/3.0.

KNPE 365/3.0 Motivational Interviewing for Physical Activity Behaviour Change

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.

LEARNING HOURS 126 (18L;24T;84P)

PREREQUISITE Level 3 or above in a PHED, KINE or HLTH Plan and PSYC 100/6.0 and (KNPE 265/3.0 or HLTH 315/3.0).

KNPE 367/3.0 Fitness, the Body and Culture

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.

LEARNING HOURS 129 (36L;9Lb;84P)

PREREQUISITE KNPE 167/3.0, or (SOCY 226/3.0 and SOCY 227/3.0) or *SOCY 221/6.0*.

KNPE 397/3.0 Special Topics in Kinesiology

Intensive coverage of topics that are current and/or of special interest in the area of Kinesiology. Offered periodically.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above and registration in a KINE or PHED Plan.

KNPE 400/3.0 Professional Issues in Allied Health

Through problem-based learning, students will gain an understanding of what it means to be an applied health care professional. Students will work collaboratively on case studies and develop critical thinking skills to prepare them as they transition to their careers as health care practitioners.

LEARNING HOURS 120 (24L;12G;84P)

PREREQUISITE Level 4 in a KINE Specialization Plan, PHED Specialization Plan, or HLTH Major Plan.

KNPE 425/3.0 Physiology of Stress

An in-depth exploration of physiological responses to primarily psychological sources of stress. An emphasis is placed on understanding the interaction between stress responses and function/health and the action of selected stress management techniques.

LEARNING HOURS 120 (36L/S;84P)

PREREQUISITE (Level 4 in a PHED Specialization or KINE Specialization Plan) and KNPE 225/3.0 and KNPE 227/3.0.

EXCLUSION No more than 3.0 units from KNPE 425/3.0; KNPE 493-001 (2015-16).

KNPE 429/3.0 Skeletal Muscle Oxygen Delivery: Demand Matching in Exercise

The focus of this course is to develop an advanced understanding of cardiovascular and respiratory responses in meeting oxygen demand of exercising skeletal muscle. Topics: oxygen delivery in exercising skeletal muscle metabolism/contraction; compromised exercise performance in selected diseases; mechanisms of enhancement of exercise tolerance.

LEARNING HOURS 132 (36L;12T;12O;72P)

PREREQUISITE Level 3 or above in a PHED Specialization or KINE Specialization Plan and KNPE 125/3.0 and KNPE 225/3.0 and KNPE 227/3.0.

KNPE 430/4.5 Athletic Therapy Internship

Working with the Coordinator of Athletic Therapy (AT), and building on the practical skills and knowledge acquired in KNPE 330/4.5, 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 Valid First Aid/CPR Certification required.

LEARNING HOURS 189 (165Pc;24P)

PREREQUISITE Level 4 in a PHED Specialization or KINE Specialization Plan and KNPE 330/4.5 and (a GPA of 2.70) and permission of the course coordinator and the Undergraduate Coordinator in the School of Kinesiology and Health Studies.

KNPE 433/3.0 Global Sport and Disability

The UN recognizes the important role of sport participation in promoting physical and mental health as well as fundamental human rights. This course will critique the use of sport and recreation on a global level as a tool for improving the lives of people with disabilities with the goal of removing barriers and enabling participation for all.

NOTE Only offered at the Bader International Study Centre.

LEARNING HOURS 125 (27L;8S;4Pc;8G;16Oc;62P)

PREREQUISITE Level 4 and [(registration in a PHED Specialization or KINE Specialization or HLTH Major or Medial Plan and HLTH 332/3.0) or registration at the BISC].

EXCLUSION No more than 3.0 units from HLTH 497/3.0 (2015-16) and KNPE 433/3.0.

KNPE 436/3.0 Advanced Internship in Exercise, Disability and Aging

Leadership experience in the context of an exercise program for adults with a disability or age-related impairment. Students develop an understanding of a) the operational considerations to run an adapted exercise program including the necessary human and financial resources, and b) the influence of disability/impairment on social participation.

NOTE Students must hold valid First Aid/CPR certification.

LEARNING HOURS 132 (12S;84Pc;12O;24P)

PREREQUISITE Level 4 in a PHED or KINE Plan, or HLTH Major or Medial Plan and KNPE 336/3.0 and (a plan GPA of 2.70) and permission of the course coordinator and the Undergraduate Coordinator in the School of Kinesiology and Health Studies.

KNPE 439/3.0 Critical Appraisal and Translation of Muscle Physiology Research

In this course students will read, evaluate and discuss recent scientific literature in the areas of exercise metabolism, exercise nutrition, and performance. Students will develop a systematic approach to scientific writing and write translational literature that accurately communicates recent scientific findings to the general population.

LEARNING HOURS 132 (36S;96P)

PREREQUISITE Level 4 in a PHED Specialization or KINE Specialization Plan and KNPE 339/3.0.

EXCLUSION No more than 3.0 units from KNPE 439/3.0 and KNPE 493/3.0 (Fall Term 2016-17).

KNPE 446/4.5 Strength and Conditioning Internship

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 Valid First Aid/CPR Certification required.

LEARNING HOURS 168 (120Pc;24G;24P)

PREREQUISITE Level 4 in a PHED Specialization or KINE Specialization Plan and KNPE 346/4.5 and (a GPA of 2.70) and permission of the course coordinator and the Undergraduate Chair in the School of Kinesiology and Health Studies.

KNPE 450/3.0 Ergonomics

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.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE Level 4 in a KINE, PHED, or HLTH Plan and (ANAT 101/3.0 or ANAT 315/3.0) and [(KNPE 254/3.0 or *KNPE 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.

KNPE 454/3.0 Clinical Biomechanics

This advanced course will present the general biomechanical techniques used in clinical evaluation. This will be followed by assessment techniques, how assessment is done, and how the results of assessment can be used to evaluate performance and the effectiveness of treatment.

LEARNING HOURS 132 (18L;18S;12Lb;84P)

PREREQUISITE Level 3 or 4 in a PHED Specialization or KINE Specialization Plan and (KNPE 254/3.0 or *KNPE 353/3.0*).

KNPE 455/3.0 Advanced Physical Activity and Health

Provides advanced understanding of concepts related to the use of physical activity/lifestyle as a strategy for reducing morbidity and mortality in general and selected special populations in preparation to participate in a variety of multidisciplinary clinical and/or professional health care environments.

NOTE This course will normally be offered in academic years starting with an odd number (eg., 2013-2014). Students in a KINE Plan will have priority over students in a PHED Plan.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above in a KINE Specialization Plan or PHED Specialization Plan and KNPE 125/3.0, KNPE 225/3.0, KNPE 227/3.0 and KNPE 255/3.0.

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.

LEARNING HOURS 126 (6I;120P)

PREREQUISITE Level 4 in a PHED Specialization or KINE Specialization Plan; permission of the supervisor and the Undergraduate Coordinator.

KNPE 459/3.0 Clinical Exercise Physiology

An in-depth coverage of principles of health screening, exercise testing and exercise prescription for individuals with cardiovascular, metabolic and pulmonary diseases. An emphasis is placed on understanding disease pathophysiology and how this interacts with the acute response to exercise and the adaptation to training.

NOTE This course will normally be offered in academic years starting with an even number (e.g., 2012-2013). Students in a KINE Specialization Plan will have priority over students in a PHED Specialization Plan.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION KNPE 255/3.0.

PREREQUISITE Level 3 or above in a PHED Specialization or KINE Specialization Plan and KNPE 125/3.0 and KNPE 225/3.0 and KNPE 227/3.0.

KNPE 463/6.0 Community-Based Physical Activity Promotion

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.

LEARNING HOURS 244 (72S;72Pc;100P)

RECOMMENDATION HLTH 315/3.0.

PREREQUISITE 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.

KNPE 465/3.0 Sport Participation and Performance

An exploration of the theoretical and empirical work in the development of sport participation and performance. Specific discussion of the developmental aspects and learning conditions that allow individuals to maintain participation and reach high levels of excellence in sport will be included.

LEARNING HOURS 120 (36S;84P)

RECOMMENDATION KNPE 237/3.0

PREREQUISITE Level 4 in a PHED Specialization or KINE Specialization Plan and a grade of B in KNPE 265/3.0.

KNPE 473/3.0 Sport and Culture

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 in a PHED Specialization or KINE Specialization Plan.

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.

LEARNING HOURS 126 (6I;120P)

PREREQUISITE Level 4 in a PHED Specialization or KINE Specialization Plan and permission of the supervisor and the Undergraduate Coordinator.

KNPE 493/3.0 Special Topics in Applied Exercise Science

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 4 and registration in a PHED Specialization or KINE Specialization Plan.

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.

LEARNING HOURS 252 (12I;240P)

RECOMMENDATION HLTH 252/3.0.

PREREQUISITE 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.

LANG 101/3.0 **Language Acquisition - Beginning Level I**

For students studying abroad or at a Canadian University 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.

LEARNING HOURS 120 (36L;84P)

EQUIVALENCY *LANG P10/3.0.*

LANG 102/3.0 **Language Acquisition - Beginning Level II**

For students studying abroad or at a Canadian University 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.

LEARNING HOURS 120 (36L;84P)

EQUIVALENCY *LANG P11/3.0.*

LANG 201/3.0 **Language Acquisition - Advanced Level I**

For students studying abroad or at a Canadian University 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.

NOTE A language placement test will be administered by the host university.

LEARNING HOURS 120 (36L;84P)

EQUIVALENCY *LANG 120/3.0.*

PREREQUISITE (LANG 101/3.0 and LANG 102/3.0) or (*LANG P10/3.0* and *LANG P11/3.0*) or permission of the Department.

LANG 202/3.0 **Language Acquisition - Advanced Level II**

For students studying abroad or at a Canadian University 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.

NOTE A language placement test will be administered by the host university.

LEARNING HOURS 120 (36L;84P)

EQUIVALENCY *LANG 121/3.0.*

PREREQUISITE (LANG 101/3.0 and LANG 102/3.0) or (*LANG P10/3.0* and *LANG P11/3.0*) or permission of the Department.

LATN 110/6.0 Introductory Latin

Fundamentals of grammar, syntax and etymology for students with no or little knowledge of Latin; provides sufficient background to read Latin prose and poetry.

NOTE Normally not open to students with 4U Latin.

LEARNING HOURS 276 (72L;24T;180P)

LATN 209/6.0 Intermediate Latin

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.

NOTE A student with 4U Latin may alternatively use this as a prerequisite and should contact the Department for permission to register in the course.

LEARNING HOURS 282 (72L;210P)

PREREQUISITE LATN 110/6.0.

LATN 321/3.0 Latin Prose

Selected passages of Latin prose, usually drawn from oratory, history, and philosophy, read in the original Latin and commented upon for their linguistic, literary, and historical significance.

NOTE This course is normally co-taught with LATN 421/3.0.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE A grade of C in LATN 209/6.0 or permission of the Department of Classics.

LATN 322/3.0 Latin Verse

Selected passages of Latin verse, usually drawn from epic, lyric, elegy, and drama, read in the original Latin and commented upon for their linguistic, literary, and historical significance.

NOTE This course is normally co-taught with LATN 422/3.0.

LEARNING HOURS 126 (36L;90P)

PREREQUISITE A grade of C in LATN 209/6.0 or permission of the Department of Classics.

LATN 327/6.0 Medieval Latin

Representative works of prose and poetry to illustrate various aspects of the history and culture of the period.

LEARNING HOURS 264 (72L;192P)

PREREQUISITE A grade of C- in LATN 209/6.0 or permission of the Department of Classics.

LATN 421/3.0 Advanced Latin Prose

Selected works of Latin prose, usually drawn from oratory, history, and philosophy, read in the original Latin and commented upon for their linguistic, literary, and historical significance.

NOTE This course is normally co-taught with LATN 321/3.0.

LEARNING HOURS 141 (36L;105P)

PREREQUISITE A grade of C in LATN 321/3.0 or permission of the Department of Classics.

LATN 422/3.0 Advanced Latin Verse

Selected works of Latin verse, usually drawn from epic, lyric, elegy, and drama, read in the original Latin and commented upon for their linguistic, literary, and historical significance.

NOTE This course is normally co-taught with LATN 322/3.0.

LEARNING HOURS 141 (36L;105P)

PREREQUISITE A grade of C in LATN 322/3.0 or permission of the Department of Classics.

LATN 431/6.0 Research Course

Detailed study of certain aspects of Latin Literature and Roman history through directed readings and essay assignments.

LEARNING HOURS 240 (24I;216P)

PREREQUISITE A minimum GPA of 1.90 in 6.0 units from LATN at the 300 level.

LATN 591/0.0 General Examination

LIBS 100/3.0 **Origins and Practices of Liberal Arts**

The Liberal Arts comprise three foundational disciplines: humanities, social sciences, and natural sciences. Such divisions have shaped everything from the organization of universities to the ways in which we organize and understand knowledge in our daily lives. The course will provide a background for each of the three liberal disciplines in ways that explain their historical origins and development over time, including their modern applications.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (48O;72P)

LIBS 300/6.0 **The Liberal Arts in the Contemporary World**

A summative capstone course for the minor in Liberal Studies that will bring the humanities, social sciences, and natural sciences to bear on the study and interpretation of a contemporary global issue.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 240 (96O;144P)

PREREQUISITE Level 3 and registration in a LIBS Plan and LIBS 100/3.0.

LING 100/6.0 Introduction to Linguistics

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.

LEARNING HOURS 240 (72L;24T;144P)

LING 202/3.0 Canadian English

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.

LEARNING HOURS 120 (36L;84P)

LING 205/3.0 Language and Power

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.

LEARNING HOURS 120 (36L;84P)

LING 310/3.0 Phonetics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE LING 100/6.0 or permission of the Department of Languages, Literatures and Cultures.

LING 320/3.0 Phonology

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.

LEARNING HOURS 120 (18L;18G;84P)

PREREQUISITE LING 100/6.0 or permission of the Department of Languages, Literatures and Cultures.

LING 330/3.0 Morphology

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE LING 100/6.0 or permission of the Department of Languages, Literatures and Cultures.

LING 340/3.0 Syntax

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE LING 100/6.0 or permission of the Department of Languages, Literatures and Cultures.

LING 350/3.0 Introduction to Historical Linguistics

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.

LEARNING HOURS 120 (18L;18G;84P)

PREREQUISITE LING 320/3.0 or permission of the Department of Languages, Literatures and Cultures.

LING 360/3.0 Comparative Morpho-Syntax

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.

PREREQUISITE LING 330/3.0 and LING 340/3.0 or permission of the Department of Languages, Literatures and Cultures.

LING 400/3.0 Linguistic Analysis and Argumentation

This course explores the forms of reasoning and evidence used in constructing and evaluating scientific arguments in linguistics, through discussion of articles that represent significant innovations and controversies in linguistic theory. Emphasis is on the structure of arguments, rather than on the analysis of individual languages or phenomena.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE (LING 320/3.0 and LING 340/3.0) or permission of the Department of Languages, Literatures, and Cultures.

LING 415/3.0 Semantics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE LING 340/3.0 or permission of the Department of Languages, Literatures, and Cultures.

LING 435/3.0 Topics in Morpho-Syntax

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).

LEARNING HOURS 120 (36L;84P)

PREREQUISITE LING 330/3.0 and LING 340/3.0.

LING 475/6.0 Field Methods in Linguistics

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.

LEARNING HOURS 210 (18S;18Lb;6T;168P)

PREREQUISITE LING 310/3.0 and LING 320/3.0 and LING 330/3.0 and LING 340/3.0.

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.

LEARNING HOURS 120 (12I;108P)

PREREQUISITE (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.

LEARNING HOURS 348 (36I;312P)

PREREQUISITE 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 300/3.0 The Process of Discovery in the Biomedical Sciences

Teams of students will identify the critical questions that must be answered to resolve major controversies or gaps of knowledge that impede the application of fundamental principles in the Life Sciences to health care. The end product will be a written report and public presentation that is accessible to a wide audience.

NOTE Restricted to students registered in Level 3 of LISC Specialization or Major Plan or Level 3 of BCHM Specialization or Major Plan.

LEARNING HOURS 126 (6L;6S;33G;33O;48P)

PREREQUISITE Level 3 and registration in a LISC or BCHM Honours Plan (LISC-M-BSH; LISC-P-BSH; BCHM-M-BSH; BCHM-P-BSH).

LISC 390/3.0 Integrated Life Sciences Laboratory I

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 Priority will be given to students registered in a LISC Specialization Plan.

PREREQUISITE (PHGY 215/3.0 and PHGY 216/3.0) or *PHGY 214/6.0*.

COREQUISITE PHAR 340/3.0.

LISC 391/3.0 Integrated Life Sciences Laboratory

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 Priority will be given to students registered in a LISC Specialization Plan.

LEARNING HOURS 108 (36Lb;36O;36P)

PREREQUISITE (PHGY 215/3.0 and PHGY 216/3.0) or *PHGY 210/6.0* or *PHGY 214/6.0*.

EXCLUSION No more than 3.0 units from BMED 384/3.0; LISC 391/3.0.

LISC 426/3.0 Current Concepts in Sensorimotor Neuroscience

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.

PREREQUISITE Level 4 and registration in the LISC Major or Specialization Plan and a GPA of 2.50 and (NSCI 323/3.0 or NSCI 324/3.0).

LISC 499/12.0 Research Project in Life Sciences

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 Acceptance by a supervisor required prior to registration.

NOTE Students whose research requires the care and/or handling of animals must also complete the Introductory Animal Care Course and if required the appropriate Animal Use workshops through the Office of the University Veterinarian.

LEARNING HOURS 480 (288Lb;24G;24I;144P)

PREREQUISITE Level 4 and registration in a LISC Specialization Plan and a GPA of 2.50.

EXCLUSION No more than 12.0 units from ANAT 499/12.0; CANC 499/12.0; EPID 499/12.0; LISC 499/12.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHAR 499/12.0; PHGY 499/12.0, *MICR 455/6.0*.

LLCU 101/3.0 Beginning Language and Culture I

Offers a basic level of understanding, speaking, reading and writing for students with no knowledge of the language. The specific language will be announced on the Department of Languages, Literatures and Cultures web page.

LEARNING HOURS 120 (36S;84P)

LLCU 102/3.0 Beginning Language and Culture II

Continuation of LLCU 101/3.0: offering a basic level of understanding, speaking, reading and writing in the language. The specific language will be announced on the Department of Languages, Literatures and Cultures web page.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE LLCU 101/3.0 in same language.

LLCU 110/3.0 Linguistic Diversity and Identity

This course explores the diversity of human languages, and the nature of linguistic identity across and within speech communities from a linguistics perspective. Topics that will be covered include: language families; linguistic typology; writing systems; language endangerment and revitalization; and situations of language contact, bilingualism, and sociolinguistic variation.

LEARNING HOURS 120 (36L;84P)

LLCU 111/3.0 Introduction to Cultures

This course offers an overview of the theoretical framework behind the study of intercultural communication and proposes practical applications of these theories, including in-class guest speakers and a 4-session workshop on Intercultural Competence by the Queen's University International Centre (QUIC). Students will obtain a Certificate by QUIC.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;120;72P)

LLCU 200/3.0 Semiotics: Interpreting the World

Semiotics is the discipline that studies signs and how these participate in creating meaning and communication. This course focuses on the theoretical system on which semiotic analyses is based (F. de Saussure, C. Peirce, R. Barthes, and others) and will be devoted to various subject areas such as literature, art, film, theatre, and other fields.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

LLCU 201/3.0 Introduction to Romance Philology

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.

LEARNING HOURS 120 (36L;84P)

EXCLUSION No more than 3.0 units from LLCU 201/3.0; *IDIS 201/6.0*.

EQUIVALENCY *IDIS 201/6.0*.

LLCU 205/3.0 The Cultures of a Nation

This course will introduce major themes and concepts in the cultures of a specific nation with an emphasis on understanding and examining the important social, historical and cultural contexts of the country and its people. Topics may include art, film, economy, religion, and politics. The specific 'Nation' details to be announced on the Languages, Literatures and Cultures website.

LEARNING HOURS 120 (36L;36T;48P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

LLCU 206/3.0 Rebel Cities

This course examines cities from a cultural perspective, focusing through film to see how different urban spaces have, at different moments in time, been incubators of great social changes. It seeks to understand why, when, and with what result such upheavals occur.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

LLCU 207/3.0 Representations of Business in the Movies

How are businesses and business people represented in film? This course draws from a range of international films to analyze how business at different levels of development in different places in the world is represented on screen. It asks why Hollywood and other film industries seem to heroize and demonize their usually male, White entrepreneurs. And it asks how such depictions matter.

LEARNING HOURS 120 (36L;24G;60P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

LLCU 209/3.0 Rio de Janeiro: the Marvelous City

This course goes beyond the typical representations of Rio de Janeiro to provide an understanding of the complex social, political, economic, and cultural history that have shaped the city's development and character. Focus is on the twentieth century, but provides the necessary historical background to understand the dynamics of life in Rio.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 132 (48O;84P)

PREREQUISITE Level 2 or above.

LLCU 210/3.0 Italy and the Classical Tradition

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 210/3.0; ITLN 310/3.0.

LLCU 213/3.0 The Social History of Organized Crime in Canada

Students will analyze and understand the most important forms of organized crime present in Canada. Its history and evolution are defined, in an attempt to interpret the relationship between major criminal organizations and economic, social, cultural, political, and demographic changes, both domestically and internationally.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

LLCU 214/3.0 Mafia Culture and the Power of Symbols, Rituals and Myth

The course will analyze the cinematic representation of the Mafia and other criminal organizations, such as Yakuza, Triads, Vory V Zakone. The course will focus on how North American cinema (Hollywood) often glorifies the mafiosi's lifestyle. The goal is the deconstruction of the romantic portrayal of the gangster life style created on screen.

NOTE Also offered at the Bader International Study Centre. Learning Hours may vary.

LEARNING HOURS 120 (36L;36T;48P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

LLCU 215/3.0 Dante

A study of Dante Alighieri's life and poetry, especially the Vita Nuova and the Divine Comedy.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 215/3.0; ITLN 415/3.0.

LLCU 226/3.0 Italian Literature and Cinema

Addresses the various issues relating to the film adaptation of an Italian literary text. The reading of narrative texts, the viewing of films and critical readings are required.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 226/3.0; ITLN 326/3.0.

LLCU 232/3.0 From the Romantics to D'Annunzio

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 232/3.0; ITLN 432/3.0.

LLCU 233/3.0 Survey of Italian Literature I

A survey of Italian literature, through selected texts of representative authors, from the Middle Ages to the eighteenth century.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 233/3.0; ITLN 331/3.0.

LLCU 234/3.0 Survey of Italian Literature II

A survey of Italian literature, through selected texts of representative authors, from the eighteenth century to present.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 234/3.0; ITLN 332/3.0.

LLCU 244/3.0 Hips Don't Lie?: Music and Culture in Latin America

This survey course explores key aspects of Hispanic history and culture in the 20th century through the study of its musical production. We will study notions of race, class, gender, and national identity by focusing on specific musical genres.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 244/3.0; LLCU 495/3.0 (2015-2016).

LLCU 247/3.0 The Dynamic History of Spain

This course covers the most significant political, historical, and artistic events and people that have shaped Spanish civilization from prehistoric times to the present. Students will acquire essential knowledge about one of Europe's most dynamic countries and at the same time improve their analytical, writing, and professional skills.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

LLCU 248/3.0 Spanish American Cultural Contexts

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

LLCU 249/3.0 Latin Lovers: Love, Sex, and Popular Culture

This course explores the emergence, development, and criticism of the Latin Lover figure in the West, from the creation of the archetypical Don Juan in the 17th century to contemporary Hollywood representation of Italian and Latin-American lovers.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 114 (36O;78P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

LLCU 257/3.0 Pirandello's Theatre

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 Mountain Giants.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 257/3.0; ITLN 357/3.0.

LLCU 270/3.0 Contemporary Events and Indigenous Cultural Politics

An interdisciplinary analysis of contemporary events and Indigenous cultural politics, with a focus on how Indigenous writers, filmmakers, artists, and community members participate in and recount defining moments. Indigenous knowledges and epistemologies are mobilised to foster a critical understanding of core questions put forward by events.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 3.0 units from LLCU 270/3.0; LLCU 295/3.0-002 (2017-18).

LLCU 295/3.0**Special Topics**

Special Topics: For detailed information, consult the Department of Languages, Literatures, and Cultures website.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

LLCU 301/3.0**Oral Tradition and Innovation in Cultural Transmission**

An examination of traditional and innovative forms of oral cultural transmission in a selection of American, African and European contexts with particular focus on the interaction of narrative and technology.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE Level 3 or permission of the Department of Languages, Literatures and Cultures.

LLCU 302/3.0**Unsettling: Indigenous Peoples & Canadian Settler Colonialism**

An intersectional/interdisciplinary approach to the analysis of, and possible alternatives to, Canadian settler colonialism. Primacy given to Indigenous voices/theories/methods related to the history of Indigenous lands and associated traditions/identities, the course focuses on the theory/practice of 'unsettling' the settler colonial societies.

LEARNING HOURS 119 (36L;9G;6O;8Oc;60P)

PREREQUISITE DEVS 220/3.0 or DEVS 221/3.0.

EXCLUSION No more than 3.0 units from LLCU 302/3.0; LLCU 495/3.0 (2015-2016).

LLCU 303/3.0**Applied Intercultural Communication**

This course examines the main concepts of intercultural communication, identifies the obstacles for successful intercultural communication, and explores strategies for overcoming these barriers. Students apply their conceptual understanding as well as their language skills to real-world situations as part of the applied portion of the course.

LEARNING HOURS 120 (24L;24Oc;72P)

PREREQUISITE Level 3 and LLCU 111/3.0.

LLCU 308/3.0**From Fellini to Benigni**

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.

LEARNING HOURS 120 (36L;36T;48P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 308/3.0; ITLN 408/3.0.

LLCU 309/3.0**The Films of Pedro Almodóvar**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 309/3.0; SPAN 408/3.0.

LLCU 316/3.0**Introduction to Contemporary Literary Theory and Analysis**

An introduction to contemporary literary theories and the analysis of Hispanic texts from reader-, structural-, and author-oriented perspectives.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 316/3.0; SPAN 406/3.0.

LLCU 319/3.0**Roots of Fascism: Resistance to Liberalism in the 19th Century**

A survey of various currents of thought from 19th-century Europe that illustrate conservative discomfort with industrial society and help to make the outbreak of fascism understandable after 1918. The course will distinguish between conservative, nationalist, aesthetic, and religious trends, illustrated by relevant readings from different countries.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Third year standing or permission of the Department of Languages, Literatures, and Cultures.

EXCLUSION No more than 3.0 units from GRMN 419/3.0; LLCU 319/3.0.

LLCU 320/3.0 Fascism in Europe from Napoleon to Hitler

An introduction from a cultural perspective to the growth of the fascist mentality in Europe and the emergence of fascist regimes. The course will treat Italian Fascism and the Third Reich as part of the broader conservative and nationalist challenge to liberalism.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 320/3.0; *INTS 320/3.0*; GRMN 420/3.0.

EQUIVALENCY *INTS 320/3.0*.

LLCU 322/3.0 Conflict and Culture: Literature, Law, and Human Rights

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 [indigenous settler relations]).

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 322/3.0; GRMN 433/3.0.

LLCU 326/3.0 Film in the New Europe

European film is our starting point for investigating the connections between work and art. Topics include: urban space; (post- and para-); socialist societies; border crossings, especially gendered labour and cultural flows. This course will investigate how the new Europe and film shape each other.

NOTE A screening will be made available each week for viewing films.

LEARNING HOURS 120 (36L; 84P)

PREREQUISITE Level 2 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 326/3.0; GRMN 426/3.0.

LLCU 327/3.0 Sickness and Health – Cultural Representations in Medical Discourse

The course investigates German cultural images and metaphors of disease, with an emphasis on the evolution of normalcy. We will study representations of disease (photography, museum exhibit, literary text), their historic development, and theories of media with respect to both historical and contemporary notions of sickness and health.

NOTE Readings are in translation.

LEARNING HOURS 114 (36L;60;72P)

PREREQUISITE Level 2 or above or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 327/3.0; GRMN 427/3.0.

LLCU 328/3.0 Gender, Development and Film in Latin America

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 328/3.0; SPAN 428/3.0.

LLCU 329/3.0 Uncanny Encounters: Narrative Analysis of the Fantastic Genre

This course offers an overview of the related genres of the Fantastic, the Fairy Tale, Dystopia, Science Fiction, and Horror. Examples will include popular works such as the Twilight Saga, Harry Potter, and/or The Hunger Games, but also traditional texts by Hoffman and Kafka. Parallel to the fictional works, the course offers theoretical analysis.

LEARNING HOURS 120 (12L;24S;12G;24O;48P)

PREREQUISITE Level 3 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 329/3.0; GRMN 429/3.0; ENGL 273/3.0.

LLCU 330/3.0 Cervantes I: Earlier Works

A study of Don Quijote I and a selection of his short theatrical Interludes. The course will consider the socio-economic and historical context and the literary implications of these works to provide a better understanding of 17th century Spain and the significance Cervantes' works still hold today.

NOTE Readings are in translation.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 330/3.0; SPAN 330/3.0.

LLCU 331/3.0 Cervantes II: Later Works

In this course students will study Don Quijote II and a selection of novellas from Cervantes' Exemplary Novels. The course will consider the socio-economic and historical context and the literary implications of the continuation of Don Quijote I to provide a better understanding of 17th century Spain and the significance Cervantes' works hold today.

NOTE Readings are in translation.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 331/3.0; SPAN 331/3.0.

LLCU 332/3.0 Spanish Baroque Short Theatre

Short theatre played an important role in the theatre of Spanish Golden Age. In this course students will study the literary particularities of the genre and the social ramifications of the themes present in short theatre (gender, battle of the sexes, diversity, authority amongst others) and their historical and contemporary relevance.

NOTE Readings are in translation.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 332/3.0; SPAN 332/3.0.

LLCU 333/3.0 Acting Out: Sexual and Gender Subversion in Baroque Theatre

Baroque playwrights took full advantage of the actor Juan Rana's well-known queerness to subvert implicitly and explicitly the social norms of sexual and gender identity still questioned today. Course will examine Spanish Baroque short theatre in general and historically contextualize its subversion of social, sexual, gender, and patriarchal norms.

NOTE Readings in translation.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 333/3.0; SPAN 333/3.0.

LLCU 339/3.0 XX-Century Italian Playwrights: In Search of the Theatre

Investigate the life and works of 20 internationally renowned Italian playwrights (including two Nobel Prize winners Luigi Pirandello and Dario Fo) in a philosophical, political, social, and historical context. Particular emphasis will be given on the aesthetic solutions proposed by the playwrights to deal with the new realities of the 21st-Century.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Third year standing or permission of the Department of Languages, Literatures, and Cultures.

LLCU 340/3.0 European Romanticism

The course will focus on the major trends of European Romanticism, mainly English, French, German and Italian. A comparison of both the 'poetics' together with a comparative analyses poems will serve as the backbone of the course.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or permission of the Department of Languages, Literatures and Cultures.

LLCU 354/3.0 Women's Voices in Latin America

A study of recent contributions to Latin American cultural production by women, including an overview of gender issues and the role women have played in their nations' history. The course will also explore the variety of voices that make up the cultural production of women in Latin America in terms of class, ethnicity, race, and sexual orientation.

NOTE Readings are in translation.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 or above.

EXCLUSION No more than 3.0 units from LLCU 354/3.0; SPAN 354/3.0.

LLCU 358/3.0 Film and Politics in Argentina

This course will examine critically a variety of representative Latin American films from a historical and filmic perspective. Beginning with the Peron era in the 1940s and 50s, and continuing through the dictatorship years of 1976 to 1983 and its aftermaths, we will examine how Argentine filmmakers express national reality and identity.

NOTE Films and readings are in translation.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 or above.

EXCLUSION No more than 3.0 units from LLCU 358/3.0; SPAN 458/3.0.

LLCU 370/3.0 Indigenous Women and Power

This course presents an interdisciplinary examination of Indigenous women and power through the lens of Indigenous scholars, writers, filmmakers, artists, and activists. Close reading methodologies are used to examine what it may mean for Indigenous women, including girls and LGBTQ2S+, “to reclaim their power and place.”

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 or above.

LLCU 432/6.0 Field Research Practicum at Fudan University

Provides students with an opportunity to conduct social research under the guidance of a Fudan instructor. Queen’s students attend lectures on the interdisciplinary study of Shanghai and team up with Fudan counterparts to undertake research on social change in Shanghai. Assignments include in-class presentations and a final paper. Fall term.

NOTE This course is part of the Semester in Shanghai program in Arts and Science, which will require students to pay a \$500 program fee to cover costs over and above tuition.

LEARNING HOURS 225.26 (26L;6.5S;2.86T;9.75Pc;6.5G;0.65I;77Oc;96P)

PREREQUISITE Acceptance as a participant in the Semester in Shanghai program administered by the International Programs Office.

EXCLUSION No more than 1 course from DEVS 420/3.0; LLCU 432/6.0; *DEVS 432/6.0*.

LLCU 495/3.0 Special Topics I

Special topics. For detailed information, consult the Department of Languages, Literatures and Cultures.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 244/3.0; LLCU 495/3.0 (2015-2016).

EXCLUSION No more than 3.0 units from LLCU 302/3.0; LLCU 495/3.0 (2015-2016).

LLCU 501/3.0 Directed Readings in Languages, Literatures and Cultures

This course enables a student or a group of students to explore a body of literature on a selected topic in Languages, Literatures, and Cultures. The focus may be by theme, by region, or academic approach and can span the humanities, social sciences, and environmental sciences.

NOTE The student(s) is responsible for approaching a professor with whom they wish to work and who is willing to undertake this project.

PREREQUISITE Level 3 or permission of the Department of Languages, Literatures and Cultures.

MATH 110/6.0 **Linear Algebra**

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.

LEARNING HOURS 264 (72L;24T;168P)

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.

EXCLUSION No more than 1 course from MATH 110/6.0 and MATH 212/3.0.

MATH 111/6.0 **Linear Algebra**

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.

LEARNING HOURS 240 (72L;168P)

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**

A brief introduction to matrix algebra, linear algebra, and applications. Topics include systems of linear equations, matrix algebra, determinants, the vector spaces \mathbb{R}^n and their subspaces, bases, co-ordinates, orthogonalization, linear transformations, eigenvectors, diagonalization of symmetric matrices, quadratic forms.

LEARNING HOURS 120 (36L;84P)

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**

A thorough discussion of calculus, including limits, continuity, differentiation, integration, multivariable differential calculus, and sequences and series.

NOTE For students intending to pursue a medial or major plan in Mathematics or Statistics or Physics.

LEARNING HOURS 288 (72L;24T;192P)

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 123/3.0; MATH 124/3.0; MATH 126/6.0.

MATH 121/6.0 **Differential and Integral Calculus**

Differentiation and integration with applications to biology, physics, chemistry, economics, and social sciences; differential equations; multivariable differential calculus.

NOTE For students intending to pursue a medial or major plan in a subject other than Mathematics or Statistics.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Study Centre. Learning Hours may vary.

LEARNING HOURS 262 (48L;11G;72O)

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 123/3.0; MATH 124/3.0; MATH 126/6.0.

MATH 123/3.0 **Differential and Integral Calculus I**

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 123/3.0; MATH 124/3.0; MATH 126/6.0.

MATH 124/3.0 **Differential and Integral Calculus II**

Topics include techniques of integration, differential equations, and multivariable differential calculus.

NOTE For students who have credit for a one-term course in calculus. Topics covered are the same as those in the Winter term of MATH 121/6.0.

LEARNING HOURS 126 (36L;12T;78P)

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 123/3.0; MATH 124/3.0; MATH 126/6.0.

MATH 126/6.0 Differential and Integral Calculus

Differentiation and integration of the elementary functions, with applications to the social sciences and economics; Taylor polynomials; multivariable differential calculus.

NOTE Primarily intended for students in the BAH program. Students in the BSCH, BCMPH and BCOM programs should not enrol in this course.

LEARNING HOURS 240 (72L;24T;144P)

EXCLUSION No more than 6.0 units from MATH 120/6.0; MATH 121/6.0; MATH 123/3.0; MATH 124/3.0; MATH 126/6.0.

MATH 210/3.0 Rings and Fields

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.

LEARNING HOURS 132 (36L;12T;84P)

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 211/6.0 Algebraic Methods

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (MATH 120/6.0 or MATH 121/6.0 or MATH 124/3.0 or MATH 126/6.0) and (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 212/3.0 Linear Algebra II

Vector spaces, direct sums, linear transformations, eigenvalues, eigenvectors, inner product spaces, self-adjoint operators, positive operators, singular-value decomposition, minimal polynomials, Jordan canonical form, the projection theorem, applications to approximation and optimization problems.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE MATH 111/6.0 or MATH 112/3.0 or MTHE 217/3.0.

EXCLUSION No more than 1 course from MATH 110/6.0 and MATH 212/3.0.

EQUIVALENCY *MATH 312/3.0*.

MATH 221/3.0 Vector Calculus

Double and triple integrals, including polar and spherical coordinates. Parameterized curves and line integrals. Gradient, divergence, and curl. Green's theorem. Parameterized surfaces and surface integrals. Stokes' and Gauss' Theorems.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION Some linear algebra.

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 MATH 221/3.0; MATH 280/3.0.

MATH 225/3.0 Ordinary Differential Equations

An introduction to solving ordinary differential equations. Topics include first order differential equations, linear differential equations with constant coefficients, and applications, Laplace transforms, systems of linear equations.

NOTE Some knowledge of linear algebra is assumed.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;12T;72P)

EQUIVALENCY *MATH 232/3.0*.

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 units from MATH 225/3.0; MATH 231/3.0; *MATH 232/3.0*.

MATH 228/3.0 **Complex Analysis**

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.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE (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 124/3.0).

EXCLUSION No more than 1 course from MATH 228/3.0; MATH 326/3.0; PHYS 317/3.0; *PHYS 312/6.0*.

MATH 231/3.0 **Differential Equations**

An introduction to ordinary differential equations and their applications. Intended for students concentrating in Mathematics or Statistics.

LEARNING HOURS 132 (36L;12T;84P)

PREREQUISITE (MATH 110/6.0 or MATH 111/6.0) and (MATH 120/6.0 or MATH 121/6.0 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 272/3.0 **Applications of Numerical Methods**

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.

LEARNING HOURS 120 (36L;12Lb;12T;60P)

PREREQUISITE (MATH 110/6.0 or MATH 111/6.0 or MATH 212/3.0) and (CISC 101/3.0 or CISC 121/3.0).

COREQUISITE MATH 225/3.0 or MATH 231/3.0 or *MATH 232/3.0*.

EXCLUSION No more than 3.0 units from CISC 271/3.0; MATH 272/3.0; PHYS 213/3.0; *PHYS 313/3.0*.

MATH 280/3.0 **Advanced Calculus**

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.

LEARNING HOURS 132 (36L;12T;84P)

PREREQUISITE (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 124/3.0).

EXCLUSION No more than 3.0 units from MATH 221/3.0; MATH 280/3.0.

MATH 281/3.0 **Introduction to Real Analysis**

Taylor's theorem, optimization, implicit and inverse function theorems. Elementary topology of Euclidean spaces. Sequences and series of numbers and functions. Pointwise and uniform convergence. Power series.

LEARNING HOURS 132 (36L;12T;84P)

PREREQUISITE MATH 120/6.0 or MATH 121/6.0 or MATH 124/3.0.

MATH 310/3.0 **Group Theory**

Permutation groups, matrix groups, abstract groups, subgroups, homomorphisms, cosets, quotient groups, group actions, Sylow theorems.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE MATH 210/3.0.

MATH 311/3.0 **Elementary Number Theory**

Congruences; Euler's theorem; continued fractions; prime numbers and their distribution; quadratic forms; Pell's equation; quadratic reciprocity; introduction to elliptic curves.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE MATH 210/3.0 or MATH 211/6.0.

MATH 326/3.0 **Functions of a Complex Variable**

Complex numbers, analytic functions, harmonic functions, Cauchy's Theorem, Taylor and Laurent series, calculus of residues, Rouché's Theorem.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE MATH 281/3.0.

EXCLUSION No more than 1 course from MATH 228/3.0; MATH 326/3.0; PHYS 317/3.0; *PHYS 312/6.0*.

MATH 328/3.0 Real Analysis

Metric spaces, topological spaces, compactness, completeness, contraction mappings, sequences and series of functions, uniform convergence, normed linear spaces, Hilbert space.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE MATH 281/3.0.

MATH 334/3.0 Mathematical Methods for Engineering and Physics

Banach and Hilbert spaces of continuous- and discrete-time signals; spaces of continuous and not necessarily continuous signals; continuous-discrete Fourier transform; continuous-continuous Fourier transform; discrete-continuous Fourier transform; discrete-discrete Fourier transform; transform inversion using Fourier series and Fourier integrals.

LEARNING HOURS 132 (36L;12T;84P)

PREREQUISITE (MATH 110/6.0 or MATH 111/6.0 or MATH 212/3.0) and MATH 281/3.0.

EXCLUSION No more than 1 course from MATH 334/3.0; PHYS 316/3.0; *PHYS 312/6.0*.

MATH 335/3.0 Mathematics of Engineering Systems

Linear input/output systems and their stability. Frequency-domain and time-domain analysis. Continuous and discrete time-modeling. Fourier, Laplace, and Z-transforms. Sampling and the discrete-time Fourier transform. Application to modulation of communications signals, filter design, and digital sampling.

LEARNING HOURS 132 (36L;12T;84P)

PREREQUISITE MATH 334/3.0 and (MATH 326/3.0 or MATH 228/3.0).

EXCLUSION No more than 1 course from MATH 335/3.0; *PHYS 312/6.0*.

EQUIVALENCY *MATH 236/3.0*.

MATH 337/3.0 Introduction to Operations Research Models

Some probability distributions, simulation, Markov chains, queuing theory, dynamic programming, inventory theory.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (STAT 268/3.0 or STAT 351/3.0) 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 124/3.0).

MATH 338/3.0 Fourier Methods for Boundary Value Problems

Methods and theory for ordinary and partial differential equations; separation of variables in rectangular and cylindrical coordinate systems; sinusoidal and Bessel orthogonal functions; the wave, diffusion, and Laplace's equation; Sturm-Liouville theory; Fourier transform.

LEARNING HOURS 118 (36L;12T;70P)

PREREQUISITE (MATH 221/3.0 or MATH 280/3.0) and (MATH 225/3.0 or MATH 231/3.0 or *MATH 232/3.0*) and (MATH 110/6.0 or MATH 111/6.0).

EXCLUSION No more than 1 course from MATH 338/3.0; PHYS 316/3.0; *PHYS 312/6.0*.

EXCLUSION No more than 1 course from MATH 338/3.0; PHYS 317/3.0; *PHYS 312/6.0*.

MATH 339/3.0 Evolutionary Game Theory

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.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION MATH 110/6.0 or MATH 111/6.0.

PREREQUISITE MATH 120/6.0 or MATH 121/6.0 or MATH 124/3.0.

MATH 341/3.0 Differential Geometry

Introductory geometry of curves/surfaces: directional/covariant derivative; differential forms; Frenet formulas; congruent curves; surfaces in \mathbb{R}^3 : mappings, topology, intrinsic geometry; manifolds; Gaussian/mean curvature; geodesics, exponential map; Gauss-Bonnet Theorem; conjugate points; constant curvature surfaces.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE MATH 110/6.0 and MATH 280/3.0.

MATH 381/3.0 Mathematics with a Historical Perspective

A historical perspective on mathematical ideas focussing on a selection of important and accessible theorems. A project is required.

LEARNING HOURS 120 (36L;12G;72P)

PREREQUISITE (MATH 110/6.0 or MATH 111/6.0 or MATH 212/3.0) and (MATH 120/6.0 or MATH 121/6.0 or MATH 126/6.0).

MATH 382/3.0 Mathematical Explorations

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (MATH 221/3.0 or MATH 225/3.0 or MATH 231/3.0 or MATH 280/3.0 or *MATH 232/3.0*) and (MATH 210/3.0 or MATH 211/6.0).

MATH 384/3.0 Mathematical Theory of Interest

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.

LEARNING HOURS 102 (12L;84P)

PREREQUISITE Level 3 and (MATH 120/6.0 or MATH 121/6.0 or MATH 124/3.0 or MATH 126/6.0).

MATH 385/3.0 Life Contingencies

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.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE (MATH 120/6.0 or MATH 121/6.0 or MATH 124/3.0 or MATH 126/6.0) and MATH 384/3.0 and (STAT 268/3.0 or STAT 351/3.0), or permission of the Department.

MATH 386/3.0 Our Number System – an Advanced Perspective

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE MATH 281/3.0.

MATH 387/3.0 Elementary Geometry – an Advanced Perspective

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 and (MATH 221/3.0 or MATH 280/3.0 or MATH 281/3.0), or permission of the Department.

MATH 401/3.0 Graph Theory

An introduction to graph theory, one of the central disciplines of discrete mathematics. Topics include graphs, subgraphs, trees, connectivity, Euler tours, Hamiltonian cycles, matchings, independent sets, cliques, colourings, and planarity. Given jointly with MATH 801/3.0.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION Experience with abstract mathematics and mathematical proof, and a good foundation in linear algebra.

PREREQUISITE MATH 210/3.0 or MATH 211/6.0.

MATH 402/3.0 Enumerative Combinatorics

Enumerative combinatorics is concerned with counting the number of elements of a finite set. The techniques covered include inclusion-exclusion, bijective proofs, double-counting arguments, recurrence relations, and generating functions. Given jointly with MATH 802/3.0.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION Experience with abstract mathematics and mathematical proof, and a good foundation in linear algebra.

PREREQUISITE MATH 210/3.0 or MATH 211/6.0.

MATH 406/3.0 Introduction to Coding Theory

Construction and properties of finite fields. Polynomials, vector spaces, block codes over finite fields. Hamming distance and other code parameters. Bounds relating code parameters. Cyclic codes and their structure as ideals. Weight distribution. Special codes and their relation to designs and projective planes. Decoding algorithms.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE MATH 210/3.0.

MATH 413/3.0 Introduction to Algebraic Geometry

An introduction to the study of systems of polynomial equations in one or many variables. Topics covered include the Hilbert basis theorem, the Nullstellensatz, the dictionary between ideals and affine varieties, and projective geometry.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE MATH 210/3.0.

MATH 414/3.0 Introduction to Galois Theory

An introduction to Galois Theory and some of its applications.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE MATH 310/3.0.

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE MATH 210/3.0 or (MATH 211/6.0 with permission of the Department).

MATH 421/3.0 Fourier Analysis

An exploration of the modern theory of Fourier series: Abel and Cesàro summability; Dirichlet's and Fejér's kernels; term by term differentiation and integration; infinite products; Bernoulli numbers; the Fourier transform; the inversion theorem; convolution of functions; the Plancherel theorem; and the Poisson summation theorem.

LEARNING HOURS 132 (36L;96P)

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE MATH 328/3.0 and MATH 231/3.0, or permission of the Department.

MATH 434/3.0 Optimization Theory and Applications

Theory of convex sets and functions; separation theorems; primal-dual properties; geometric treatment of optimization problems; algorithmic procedures for solving constrained optimization programs; engineering and economic applications.

PREREQUISITE (MATH 110/6.0 or MATH 111/6.0 or MATH 212/3.0) and MATH 281/3.0.

MATH 436/3.0 **Partial Differential Equations**

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.

LEARNING HOURS 132 (36L;96P)

RECOMMENDATION MATH 328/3.0 or MATH 334/3.0 or MATH 338/3.0 or *PHYS 312/6.0*.

PREREQUISITE MATH 231/3.0 and MATH 280/3.0.

MATH 437/3.0 **Topics in Applied Mathematics**

Subject matter to vary from year to year. Given jointly with MATH 837/3.0.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Permission of the Department.

MATH 439/3.0 **Lagrangian Mechanics, Dynamics, and Control**

Geometric modeling, including configuration space, tangent bundle, kinetic energy, inertia, and force. Euler-Lagrange equations using affine connections. The last part of the course develops one of the following three applications: mechanical systems with nonholonomic constraints; control theory for mechanical systems; equilibria and stability.

LEARNING HOURS 132 (36L;12T;84P)

PREREQUISITE MATH 231/3.0 and (MATH 280/3.0 or MATH 281/3.0), or permission of the Department.

MATH 474/3.0 **Information Theory**

Topics include: information measures, entropy, mutual information, modeling of information sources, lossless data compression, block encoding, variable-length encoding, Kraft inequality, fundamentals of channel coding, channel capacity, rate-distortion theory, lossy data compression, rate-distortion theorem. Given jointly with MATH 874/3.0.

LEARNING HOURS 140 (36L;104P)

RECOMMENDATION STAT 353/3.0.

PREREQUISITE STAT 268/3.0 or STAT 351/3.0.

MATH 477/3.0 **Data Compression and Source Coding**

Topics include: arithmetic coding, universal lossless coding, Lempel-Ziv and related dictionary based methods, rate distortion theory, scalar and vector quantization, predictive and transform coding, applications to speech and image coding.

LEARNING HOURS 120 (36L;120;72P)

RECOMMENDATION STAT 353/3.0.

PREREQUISITE MATH 474/3.0.

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**

Important topics in mathematics not covered in any other courses.

PREREQUISITE Permission of the Department.

MICR 121/3.0 Microbiology for Nursing Students

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 at the 200-level or above.

MICR 221/3.0 Basic Microbiology

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.

LEARNING HOURS 120 (36L;18Lb;66P)

EQUIVALENCY *MICR 229/3.0.*

PREREQUISITE (A GPA of 1.90 in BIOL 102/3.0 and BIOL 103/3.0) and CHEM 112/6.0.

EXCLUSION No more than 3.0 units from MICR 221/3.0; MICR 271/3.0.

MICR 270/3.0 Infection, Immunity and Inflammation

This course focuses on the biology of the immune system in combating infections caused by common pathogens as well as major global infectious disease threats. The unique features of this course lie in its approach to understanding the body's defense mechanisms in combating microbial, autoimmune, immune mediated diseases, and cancer. By the end of the course the student will be able to apply the knowledge gained through this course in various areas of life sciences.

NOTE This online course in infection and immunity is designed for students from various biological sciences and allied health backgrounds at all levels of post-secondary education and is recommended as a foundation course for students pursuing a life sciences career.

NOTE Only offered online. Consult the Bachelor of Health Sciences program office.

NOTE May not be taken for credit towards the Plan requirements of the LISC Specialization or Major Plans.

LEARNING HOURS 114 (36O;78P)

RECOMMENDATION 4U Biology.

PREREQUISITE Level 2 and (BIOL 102/3.0 or MICR 121/3.0 or PHGY 170/3.0)

ONE-WAY EXCLUSION May not be taken with or after MICR 360/3.0.

MICR 271/3.0 Introduction to Microbiology

An introduction to the biology of microbes, including both pathogenic & beneficial bacteria, viruses, fungi, & protozoa. This overview of the biological features of these microorganisms will highlight these organisms' roles in the environment & in human health contributing to infectious diseases vs. maintaining healthy microbiomes.

NOTE Only offered online. Consult. Consult the Bachelor of Health Sciences program office.

LEARNING HOURS 120 (60O;60P)

PREREQUISITE Level 2 or above and (BIOL 102/3.0 or PHGY 170/3.0).

EXCLUSION No more than 3.0 units from MICR 221/3.0; MICR 271/3.0.

MICR 320/3.0 Microbial Pathogenesis

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.

LEARNING HOURS 120 (34L;2S;4T;8G;72P)

PREREQUISITE (MICR 221/3.0 or MICR 271/3.0 or *MICR 229/3.0*) and MICR 360/3.0.

MICR 360/3.0 Immunology

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.

LEARNING HOURS 144 (36L;36O;72P)

PREREQUISITE MICR 221/3.0 or MICR 271/3.0.

MICR 435/3.0 Advanced Prokaryotic Structure and Function

An in-depth analysis of the genetics, biochemistry, assembly and function of the major structures of the prokaryotic cell. Emphasis on the experimental approaches in the current literature.

NOTE Offered in alternate years to MICR 436/3.0.

PREREQUISITE Registration in the LISC Major or Specialization Plan and a GPA of 2.5 and BIOL 205/3.0 and (a grade of B- in MICR 221/3.0 or MICR 271/3.0 or *MICR 229/3.0*).

COREQUISITE BCHM 310/9.0 or BCHM 315/3.0 or BIOL 334/3.0.

MICR 436/3.0 Microbial Genetics

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.

LEARNING HOURS 132 (12L;12S;36Lb;12T;60P)

PREREQUISITE Registration in the LISC Major or Specialization Plan and a GPA of 2.5 and BIOL 205/3.0 and (a grade of B in MICR 221/3.0 or MICR 271/3.0 or *MICR 229/3.0*).

COREQUISITE BCHM 310/9.0 or BCHM 315/3.0 or BIOL 334/3.0.

MICR 450/3.0 Principles of Molecular Virology

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 BCHM 218/3.0.

LEARNING HOURS 140 (36L;12S;8T;24G;24I;36P)

PREREQUISITE Level 4 and registration in the LISC Major or Specialization Plan and a GPA of 2.5 and BIOL 205/3.0 and (a grade of B- in MICR 221/3.0 or MICR 271/3.0 or *MICR 229/3.0*).

COREQUISITE BCHM 310/9.0 or BCHM 315/3.0.

MICR 451/3.0 Selected Topics in Viral Pathogenesis

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.

LEARNING HOURS 120 (24L;12T;84P)

PREREQUISITE Level 3 or above and registration in the BIOL or LISC Major or Specialization Plan and a GPA of 2.5 and (BCHM 218/3.0 or a minimum grade of B- in BIOL 330/3.0 or a minimum grade of B- in BIOL 331/3.0).

MICR 452/3.0 Viral Infection and Immunity

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.

PREREQUISITE Level 4 and registration in the LISC Major or Specialization Plan and a GPA of 2.5 and (MICR 221/3.0 or MICR 271/3.0) and MICR 360/3.0.

MICR 461/3.0 Advanced Immunology

Advanced immunology course focused on current topics in immunology and immunology-related scientific research.

LEARNING HOURS 132 (12L;24T;96P)

PREREQUISITE Level 4 and registration in the LISC Major or Specialization Plan and a GPA of 2.5 and a minimum grade of A- in MICR 360/3.0.

MICR 499/12.0 Research Project in Microbiology and Immunology

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 Acceptance by a supervisor required prior to registration.

NOTE Students whose research requires the care and/or handling of animals must also complete the Introductory Animal Care Course and if required the appropriate Animal Use workshops through the Office of the University Veterinarian.

LEARNING HOURS 480 (288Lb;24G;24I;144P)

PREREQUISITE Level 4 and registration in a LISC or ELSC Specialization Plan and a GPA of 2.50 and MICR 221/3.0.

EXCLUSION No more than 12.0 units from ANAT 499/12.0; CANC 499/12.0; EPID 499/12.0; LISC 499/12.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHAR 499/12.0; PHGY 499/12.0, *MICR 455/6.0*.

MOHK 101/3.0 Beginning Mohawk Language and Culture I

An introduction to the language and culture of the Kanyen'kehá:ka, the people of the Mohawk Nation. This course is designed for those who have neither been exposed to Kanyen'kéha, the Mohawk language, nor its traditional societal practices. Learn basic Mohawk language and gain a rich understanding of the Mohawk culture and tradition.

NOTE Also offered in the Mohawk Territory of Tyendinaga for students registered in the Certificate of Mohawk Language and Culture. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

EXCLUSION LLCU 101/3.0 (Topic: Mohawk I).

MOHK 102/3.0 Beginning Mohawk Language and Culture II

A continuation of MOHK 101/3.0. Students will participate and begin to develop the ability to read, write and speak some basic Mohawk language and further their understanding of the richness of Mohawk culture, traditions, and worldviews.

NOTE Also offered in the Mohawk Territory of Tyendinaga for students registered in the Certificate of Mohawk Language and Culture. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE MOHK 101/3.0 or LLCU 101/3.0 (Topic: Mohawk I).

EXCLUSION LLCU 102/3.0 (Topic: Mohawk II).

MOHK 201/3.0 Intermediate Mohawk Language and Culture

Students will continue to develop their language skills in Kanyen'kéha (the Mohawk language) beyond the basics and be able to interact meaningfully in a greater number of daily activities.

NOTE Offered only in the Mohawk Territory of Tyendinaga and open only to students registered in the Certificate of Mohawk Language and Culture.

LEARNING HOURS 120 (102Oc;18P)

PREREQUISITE MOHK 102/3.0.

MOHK 202/3.0 Oral Mohawk Language

This course will finalize the transition from reading to writing to hearing and speaking in Kanyen'kéha (the Mohawk language). It will also give students the tools necessary to learn and improve their abilities in conversation with first language speakers (either in person, in recordings, or in written materials).

NOTE Offered only in the Mohawk Territory of Tyendinaga and open only to students registered in the Certificate of Mohawk Language and Culture.

LEARNING HOURS 120 (102Oc;18P)

PREREQUISITE MOHK 201/3.0.

MUSC 100/1.5 Small Ensemble

Chamber music or small ensemble experience for qualified instrumentalists and singers. Topics vary. Course includes weekly or bi-weekly coachings and a minimum of one evaluation and/or concert per term for all students. Credit attained only with regular attendance, active participation, and ample preparation.

LEARNING HOURS VARY

PREREQUISITE Permission of the School upon audition.

MUSC 102/3.0 Western Music: Napoleon to 9/11

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 should not register in this course.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;120;72P)

EXCLUSION No more than 3.0 units from MUSC 102/3.0; MUSC 211/3.0; *MUSC 203/3.0*.

EXCLUSION No more than 3.0 units from MUSC 102/3.0; MUSC 211/3.0; *MUSC 204/3.0*.

MUSC 104/3.0 Introduction to Music Fundamentals

An introduction to musical notation, ear training, theory and analysis.

NOTE Students who hold Royal Conservatory Advanced Rudiments or higher should consult with the School for appropriate course placement. May not be taken for credit by students in the B.Mus. Plan.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 123 (36L;3G;36O;48P)

EXCLUSION No more than one course from MUSC 104/3.0; *MUSC P06/0.0*; *MUSC P52/3.0*.

MUSC 112/1.5 Medium Ensemble

Mid-size ensemble experience for qualified performers. Topics vary. Course includes weekly rehearsals of a wider variety of repertoire, and a minimum of one concert per term for all students. Credit attained only with regular attendance, active participation, and ample preparation.

LEARNING HOURS 168 (72Pc;96P)

PREREQUISITE Permission of the School upon audition.

MUSC 114/3.0 Introduction to Teaching Music to Children

Hands-on, blended approach to the theory and practice of teaching and engaging with children through music. Students will be introduced to concepts through educational activities and will learn to identify and describe musical characteristics heard in a variety of repertoire as well as perform short pieces appropriate for novice performers.

NOTE May not be taken for credit by students in the B.Mus. Plan.

LEARNING HOURS 120 (36L;24O;60P)

RECOMMENDATION MUSC 104/3.0 or *MUSC P52/3.0* is recommended.

MUSC 115/1.5 Large Ensemble

Large ensemble for qualified instrumentalists and singers. Topics vary. Course includes weekly rehearsals of a wide variety of repertoire, and a minimum of one concert per term, for all students. Credit attained only with regular attendance, active participation, and ample preparation.

LEARNING HOURS 168 (72Pc;96P)

PREREQUISITE Permission of the School upon audition.

MUSC 120/6.0 Applied Study I (Performance)

A first year study of the student's applied subject (instrument or voice) in the performance concentration.

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.

MUSC 121/6.0 Applied Study I

The first year of study of the student's chief practical subject (instrument or voice).

NOTE Accompanist fee - wind, brass, string, and voice students.

EXCLUSION No more than 6.0 units from MUSC 120/6.0; MUSC 121/6.0.

EXCLUSION No more than 6.0 units from MUSC 121/6.0; MUSC 125/6.0.

MUSC 124/6.0 Applied Music

Private instrumental or vocal instruction for non-B.Mus. students. Auditions required.

NOTE Accompanist fee - wind, brass, string, and voice students.

NOTE Also offered at the Bader International Study Centre. Learning Hours may vary.

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.

PREREQUISITE Permission of the School.

MUSC 125/6.0 Applied Study I (Performance Recital)

Students will perform in a public recital in accordance with the guidelines established by the Dan School of Music.

NOTE Accompanist fee - wind, brass, string, and voice students.

COREQUISITE MUSC 120/6.0.

EXCLUSION No more than 6.0 units from MUSC 121/6.0; MUSC 125/6.0.

MUSC 127/3.0 Ear Training and Sight Singing I

Training in sight reading and dictation.

NOTE Students with RCM Grade 8 Theory or equivalent may request permission from the School to take the course.

PREREQUISITE (Registration in a BMUS or BMT Plan) or MUSC 104/3.0 or permission of the School.

MUSC 129/3.0 Keyboard Skills

A fundamental keyboard skills course designed for non-keyboard majors.

NOTE Course content will support and coordinate with the traditional diatonic harmonic material covered in MUSC 191 but will also include other styles. Successful completion of the course will require a working fluency at the keyboard in sight-reading, melodic and harmonic analysis as well as transcription. Activities will include harmonization, transposition and improvisation.

NOTE Students require previous rudiments and piano experience to take this course.

LEARNING HOURS 120 (24Lb;96P)

RECOMMENDATION MUSC 191/6.0.

PREREQUISITE Registration in the B.Mus. or B.M.T. Plan or permission of the School.

EXCLUSION No more than 3.0 units from; MUSC 129/3.0; *MUSC 128/3.0*.

MUSC 151/3.0 Introduction to Instrumental Composition

This course teaches students the basics of instrumental music composition in the Western Art Music tradition with a strong emphasis on creativity and class participation.

NOTE No prior experience with composition is required, but students must demonstrate a thorough understanding of the rudiments of music prior to enrollment.

LEARNING HOURS 136 (12L;24S;4G;96P)

PREREQUISITE Registration in a B.Mus. or B.M.T. Plan or MUSC 104/3.0 or *MUSC P52/3.0* or permission of the School.

EXCLUSION No more than 1 course from MUSC 151/3.0; *MUSC 153/6.0*.

MUSC 152/3.0 Introduction to Vocal Composition

This course teaches students the basics of vocal composition in the Western Art Music tradition with a strong emphasis on creativity and class participation.

NOTE No prior experience with composition is required, but students must demonstrate a thorough understanding of the rudiments of music prior to enrollment.

LEARNING HOURS 136 (12L;24S;4G;96P)

PREREQUISITE MUSC 104/3.0 or *MUSC P52/3.0* or permission of the School.

EXCLUSION No more than 1 course from MUSC 152/3.0; *MUSC 153/6.0*.

MUSC 156/3.0 Introduction to Digital Audio Recording, Editing, and Mixing

Basics of digital audio recording, with a focus on free/open-source software tools. Through assignments oriented towards mastering basics necessary for podcast or music recording/mixing, you will gain experience with digital audio workstation software for multitrack production, and tools such as EQ, compression, and limiting.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (24Lb;24O;72P)

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 online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

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 Students with RCM Grade 8 Theory or equivalent may request permission from the School to take the course.

PREREQUISITE (Registration in a BMUS or BMT Plan) or MUSC 104/3.0.

EXCLUSION No more than 6.0 units from MUSC 180-189/3.0 (BMUS excepted).

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 Optional Instrumental rental fee of \$75 plus HST per term.

NOTE Students with RCM Grade 8 Theory or equivalent may request permission from the School to take the course.

PREREQUISITE (Registration in a BMUS or BMT Plan) or MUSC 104/3.0.

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 Optional Instrumental rental fee of \$75 plus HST per term.

NOTE Students with RCM Grade 8 Theory or equivalent may request permission from the School to take the course.

PREREQUISITE (Registration in a BMUS or BMT Plan) or MUSC 104/3.0.

MUSC 185/3.0 String Techniques and Methods I

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 Optional Instrumental rental fee of \$75 plus HST per term.

NOTE Students with RCM Grade 8 Theory or equivalent may request permission from the School to take the course.

PREREQUISITE (Registration in a BMUS or BMT Plan) or MUSC 104/3.0.

MUSC 187/3.0 Percussion Techniques and Methods I

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.

NOTE Students with RCM Grade 8 Theory or equivalent may request permission from the School to take the course.

PREREQUISITE (Registration in a BMUS or BMT Plan) or MUSC 104/3.0.

MUSC 188/3.0 Guitar Techniques and Methods

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 Students with RCM Grade 8 Theory or equivalent may request permission from the School to take the course.

PREREQUISITE (Registration in a BMUS or BMT Plan) or MUSC 104/3.0.

MUSC 189/3.0 Topics in Techniques and Methods of World Music

Group instruction in the basic techniques and methods of a selected World Music and their application to teaching.

LEARNING HOURS 114 (36L;78P)

PREREQUISITE Registration in a BMUS, BMT, MUSC, or DRAM Plan or permission of the School.

MUSC 191/6.0 Theory and Analysis I

Diatonic voice-leading and harmony, principles of form and small structures (binary, ternary) through part-writing and analysis.

NOTE Students having received 80% or higher on a conservatory advanced rudiments exam may enroll in the course with permission of the School.

LEARNING HOURS 240 (72L;24T;144P)

PREREQUISITE (Registration in a BMUS or BMT Plan) or a grade of A- in MUSC 104/3.0 or permission of the School.

MUSC 200/1.5 Small Ensemble

Chamber music or small ensemble experience for qualified instrumentalists and singers. Topics vary. Course includes weekly or bi-weekly coachings and a minimum of one evaluation and/or concert per term for all students. Credit attained only with regular attendance, active participation, and ample preparation.

LEARNING HOURS VARY

PREREQUISITE Permission of the School upon audition.

MUSC 210/3.0 Western Art Music: Crusades to Colonialism

This course is an examination of the styles, genres, and composers of Western art music between ca. 1000 and 1800 CE. Exploring the historical trajectory of Western music in global context, we will continue to build skills to critically analyze musical works and connect their production with social and cultural contexts.

LEARNING HOURS 119 (36L;180;65P)

PREREQUISITE MUTH 110/3.0.

COREQUISITE MUSC 191/6.0.

EXCLUSION No more than 3.0 units from *MUSC 204/3.0*; MUSC 210/3.0.

EXCLUSION No more than 3.0 units from *MUSC 205/3.0*; MUSC 210/3.0.

MUSC 211/3.0 Western Art Music: Industrialization to the Internet

This course is an examination of the styles, genres, and composers of Western art music between 1750 and the present. Exploring the historical trajectory of Western music in global context, we will build skills to critically analyze musical works and connect their production with social and cultural contexts.

LEARNING HOURS 120 (36L;120;72P)

PREREQUISITE MUTH 111/3.0.

COREQUISITE MUSC 191/6.0.

EXCLUSION No more than 3.0 units from MUSC 102/3.0; *MUSC 203/3.0*; MUSC 211/3.0.

EXCLUSION No more than 3.0 units from MUSC 102/3.0; *MUSC 204/3.0*; MUSC 211/3.0.

MUSC 212/1.5 Medium Ensemble

Mid-size ensemble experience for qualified performers. Topics vary. Course includes weekly rehearsals of a wider variety of repertoire, and a minimum of one concert per term for all students. Credit attained only with regular attendance, active participation, and ample preparation.

LEARNING HOURS 168 (72Pc;96P)

PREREQUISITE Permission of the School upon audition.

MUSC 215/1.5 Large Ensemble

Large ensemble for qualified instrumentalists and singers. Topics vary. Course includes weekly rehearsals of a wide variety of repertoire, and a minimum of one concert per term, for all students. Credit attained only with regular attendance, active participation, and ample preparation.

LEARNING HOURS 168 (72Pc;96P)

PREREQUISITE Permission of the School upon audition.

MUSC 220/6.0 Applied Study II (Performance)

Continuation of MUSC 120/6.0.

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 121/6.0 or MUSC 124/6.0 and receive recommendation of the jury.

PREREQUISITE 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

Continuation of MUSC 121/6.0.

NOTE Accompanist fee - wind, brass, string, and voice students.

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

Continuation of MUSC 124/6.0.

NOTE Accompanist fee - wind, brass, string, and voice students.

NOTE Open to non-B.Mus. students only.

PREREQUISITE MUSC 124/6.0 and permission of the School.

MUSC 225/6.0 Applied Study II (Performance Recital)

Students will perform in a public recital in accordance with guidelines established by the Dan School of Music.

NOTE Accompanist fee - wind, brass, string, and voice students.

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

A continuation of MUSC 127/3.0.

PREREQUISITE MUSC 127/3.0.

MUSC 229/3.0 Keyboard Lab

A comprehensive keyboard musicianship course in a laboratory format specifically designed for keyboard majors and others receiving advanced placement. Course content will include practical instrument-specific activities for pianists.

NOTE Course content will support and coordinate with the traditional diatonic harmonic material covered in MUSC 191 but will also include other styles. Successful completion of the course will require a working fluency at the keyboard in sight-reading, melodic and harmonic analysis as well as transcription. Activities will include harmonization, transposition and improvisation.

RECOMMENDATION MUSC 292/3.0 and MUSC 293/3.0.

LEARNING HOURS 120 (24Lb;96P)

PREREQUISITE MUSC 129/3.0 or Permission of the School.

EXCLUSION No more than 3.0 units from MUSC 229/3.0; *MUSC 228/3.0*.

MUSC 245/3.0 Topics in Musics and Cultures

An exploration of a specific topic or skillset in (ethno)musicology, music and society, and/or music creation.

LEARNING HOURS 120 (36L;24O;60P)

PREREQUISITE Level 2 or above.

MUSC 253/3.0 Introduction to Jazz Improvisation

An introduction to the skills required to improvise in the jazz style. Students will develop their ability to improvise by analyzing, listening and performing repertoire from the Swing and Bebop eras.

PREREQUISITE Level 2 or above and registration in a BMUS or BMT Plan or permission of the School.

MUSC 255/6.0 Electroacoustic Music Composition

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.

MUSC 258/3.0 Science and Technology of Music

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.

LEARNING HOURS 114 (36L;120;66P)

MUSC 270/3.0 Conducting Techniques

An introduction to basic principles of conducting, baton and rehearsal techniques.

NOTE Optional Instrumental rental fee of \$75 plus HST per term.

PREREQUISITE MUSC 191/6.0 and (MUSC 121/6.0 or MUSC 124/6.0) and (3.0 units from MUSC 181/3.0; MUSC 183/3.0; MUSC 185/3.0; MUSC 187/3.0).

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 Level 2 or above and [registration in a MUSC or BMT Plan or (MUSC 114/3.0 and 3.0 units from MUSC or MUTH)] or permission of the School.

MUSC 280/3.0 Vocal Techniques and Methods II

Continuation of MUSC 180/3.0. Study of more advanced topics of vocal instruction with emphasis on classroom teaching techniques and choral conducting. Topics include vocal technique, diction, ensemble blend and balance, rehearsal techniques, building age- and grade-appropriate repertoire, and long and short-term lesson planning.

NOTE Enrolment is limited to students in a MUSC Plan; B.M.T. Plan or the B.Mus. Program.

LEARNING HOURS 114 (36L;78P)

PREREQUISITE MUSC 180/3.0 or permission of the instructor.

MUSC 281/3.0 Woodwind Techniques and Methods II

Continuation of MUSC 181/3.0. Students study woodwind instruments through class instruction on selected instruments. Emphasis expands to intermediate levels, with further study of playing techniques, ranges, fingerings, transpositions, instrument maintenance, ensemble repertoire and teaching techniques. Rental instruments available.

NOTE Optional Instrumental rental fee of \$75 plus HST per term.

NOTE Enrolment is limited to students in a MUSC Plan; B.M.T. Plan or the B.Mus. Program.

LEARNING HOURS 114 (36L;78P)

PREREQUISITE MUSC 181/3.0 or permission of the instructor.

MUSC 283/3.0 Brass Techniques and Methods II

Continuation of MUSC 183/3.0. A more advanced study of the complete brass family of instruments. Emphasis includes playing techniques, ranges, fingerings, transpositions, instrument maintenance, method books, ensemble repertoire and teaching techniques. Rental instruments available.

NOTE Optional Instrumental rental fee of \$75 plus HST per term.

NOTE Enrolment is limited to students in a MUSC Plan; B.M.T. Plan or the B.Mus. Program.

LEARNING HOURS 114 (36L;78P)

PREREQUISITE MUSC 183/3.0 or permission of the instructor.

MUSC 285/3.0 String Techniques and Methods II

Continuation of MUSC 185/3.0. Students study orchestral stringed instruments through class instruction on selected instruments. Emphasis includes further study of playing techniques, ranges, fingerings, bowings, transpositions, tunings, instrument maintenance, ensemble repertoire and teaching techniques. Rental instruments available.

NOTE Optional Instrumental rental fee of \$75 plus HST per term.

NOTE Enrolment is limited to students in a MUSC Plan, B.M.T. Plan or the B.Mus. Program.

LEARNING HOURS 114 (36L;78P)

PREREQUISITE MUSC 185/3.0 or permission of the instructor.

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.

LEARNING HOURS 120 (36S;24O;60P)

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 112 (36L;24O;52P)

MUSC 292/3.0 Theory and Analysis IIA

Tonal and chromatic voice-leading and harmony, phrase structure, bipartite, tripartite, and composite formal structures, through part-writing and analysis.

LEARNING HOURS 114 (36L;78P)

PREREQUISITE A minimum grade of C- in MUSC 191/6.0 or permission of the School.

EXCLUSION No more than 6.0 units from *MUSC 291/6.0*; MUSC 292/3.0; MUSC 293/3.0

EQUIVALENCY *MUSC 291/6.0*.

MUSC 293/3.0 Theory and Analysis IIB

Chromatic voice-leading and harmony, large-scale and expanded formal structures, including sonata, rondo, and expanded 19th-century forms, through part-writing and analysis.

LEARNING HOURS 114 (36L;78P)

PREREQUISITE MUSC 292/3.0.

EXCLUSION No more than 6.0 units from *MUSC 291/6.0*; MUSC 292/3.0; MUSC 293/3.0

EQUIVALENCY *MUSC 291/6.0*.

MUSC 300/1.5 Small Ensemble

Chamber music or small ensemble experience for qualified instrumentalists and singers. Topics vary. Course includes weekly or bi-weekly coachings and a minimum of one evaluation and/or concert per term for all students. Credit attained only with regular attendance, active participation, and ample preparation.

LEARNING HOURS VARY

PREREQUISITE Permission of the School upon audition.

MUSC 312/1.5 Medium Ensemble

Mid-size ensemble experience for qualified performers. Topics vary. Course includes weekly rehearsals of a wider variety of repertoire, and a minimum of one concert per term for all students. Credit attained only with regular attendance, active participation, and ample preparation.

LEARNING HOURS 168 (72Pc;96P)

PREREQUISITE Permission of the School upon audition.

MUSC 315/1.5 Large Ensemble

Large ensemble for qualified instrumentalists and singers. Topics vary. Course includes weekly rehearsals of a wide variety of repertoire, and a minimum of one concert per term, for all students. Credit attained only with regular attendance, active participation, and ample preparation.

LEARNING HOURS 168 (72Pc;96P)

PREREQUISITE Permission of the School upon audition.

MUSC 320/6.0 Applied Study III (Performance)

Continuation of MUSC 220/6.0.

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.

PREREQUISITE A grade of B in both MUSC 220/6.0 and MUSC 225/6.0.

COREQUISITE MUSC 325/6.0.

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 320/6.0; MUSC 324/6.0.

MUSC 321/6.0 Applied Study III

Continuation of MUSC 221/6.0 at an advanced level.

NOTE Accompanist fee - wind, brass, string, and voice students.

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 324/6.0.

EXCLUSION No more than 6.0 units from MUSC 321/6.0; MUSC 325/6.0.

MUSC 324/6.0 Applied Music

Continuation of MUSC 224/6.0.

NOTE Open to non-B.Mus. students only.

NOTE Accompanist fee - wind, brass, string, and voice students.

PREREQUISITE A grade of B- in MUSC 224/6.0.

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 Dan School of Drama and Music.

NOTE Accompanist fee - wind, brass, string, and voice students.

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

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above and permission of the School.

EQUIVALENCY *MUSC 226/3.0.*

MUSC 328/3.0 Applied Pedagogy I

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.

NOTE Students must have previous experience on the instrument/vocal area listed in the topic ID. Contact the School for more information.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 or above and permission of the School.

MUSC 329/3.0 Applied Pedagogy II

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 focus of study will rotate from year to year as resources permit.

NOTE Students must have previous experience on the instrument/vocal area listed in the topic ID. Contact the School for more information.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 3 or above and permission of the School.

MUSC 333/3.0 Dalcroze, Kodaly and Orff

An historical overview and introduction to the philosophical and pedagogical views of Emile Jaques-Dalcroze, Zoltan Kodály and Carl Orff to teaching music.

LEARNING HOURS 120 (12L;12Pc;12G;24O;60P)

PREREQUISITE Level 3 or above and MUSC 274/3.0.

MUSC 334/3.0 Elementary Music Education

An examination of the literature, instructional methods, resources, and planning structures for teaching music to elementary students.

LEARNING HOURS 120 (36G;24O;60P)

PREREQUISITE MUSC 274/3.0 and (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).

EXCLUSION No more than 3.0 units from MUSC 334/3.0; *MUSC 332/3.0*.

EXCLUSION No more than 3.0 units from MUSC 334/3.0; *MUSC 336/3.0*.

MUSC 335/3.0 Music Education in the Community

This course examines formal, informal and non-formal structures that support music teaching and learning in the community across the lifespan.

NOTE Non-Music students should note that a significant music background is required to be successful in this course.

LEARNING HOURS 120 (36G;24O;60P)

PREREQUISITE Level 3 or above and registration in a BMT or MUSC Plan or permission of the School.

MUSC 338/3.0 Secondary Music Education

An introduction to the methods, materials, and curriculum design suitable for teaching music to senior high school students.

LEARNING HOURS 106 (36L;6Pc;12G;52P)

PREREQUISITE Level 3 or above and 6.0 units from MUSC 180/3.0-MUSC 188/3.0.

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 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

Guidance in the development of the student as a composer of electroacoustic music.

NOTE Students must submit in writing to the Music Office their request to apply for this course by the last day of classes in the Winter Term.

PREREQUISITE 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 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 355/6.0 Electroacoustic Composition

Guidance in the development of the student as a composer of electroacoustic music.

NOTE Students must submit in writing to the Music Office their request to apply for this course by the last day of classes in the Winter Term.

PREREQUISITE MUSC 255/6.0 and permission of the School.

MUSC 358/3.0 Jazz and Popular Music Arranging

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.

LEARNING HOURS 114 (36L;78P)

PREREQUISITE MUSC 293/3.0 or *MUSC 291/6.0* or permission of the School.

MUSC 380/3.0 Topics in Music History and Culture I

An intensive study of a topic within historical musicology, ethnomusicology, or popular music(s).

LEARNING HOURS 112 (36L;24O;52P)

PREREQUISITE MUSC 191/6.0 and [(MUSC 210/3.0 or MUSC 211/3.0) or (*MUSC 203/3.0* or *MUSC 204/3.0* or *MUSC 205/3.0*)] or permission of the School.

MUSC 381/3.0 Topics in Music History and Culture II

An intensive survey of a topic within historical musicology, ethnomusicology, or popular music(s).

LEARNING HOURS 112 (36L;24O;52P)

PREREQUISITE MUSC 191/6.0 and [(MUSC 210/3.0 or MUSC 211/3.0) or (*MUSC 203/3.0* or *MUSC 204/3.0* or *MUSC 205/3.0*)] or permission of the School.

MUSC 388/3.0 Canadian Music Since 1930

A study of the lives and works of composers and musicians in Canada, in a diverse range of genres, as well as the development of institutions and infrastructure in the arts. This course will approach these topics through various lenses including nationalism, politics, pedagogy, and Settler/Indigenous interactions.

LEARNING HOURS 120 (36L;12O;72P)

PREREQUISITE Level 3 or above and [(MUTH 110/3.0 or MUTH 111/3.0) or (*MUSC 203/3.0* or *MUSC 204/3.0* or *MUSC 205/3.0*)] or permission of the School.

MUSC 392/3.0 Theory and Analysis III

Introductory study of 20th-century systems of musical organization through analysis and writing.

LEARNING HOURS 120 (36L;12O;72P)

PREREQUISITE MUSC 293/3.0 or *MUSC 291/6.0* or permission of the School.

MUSC 393/3.0 Music and Digital Media

The study of music, technology, and digital media/multimedia and their interactions in contemporary contexts.

PREREQUISITE Level 3 or above or permission of the School.

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.

LEARNING HOURS 120 (36L;12O;72P)

PREREQUISITE MUSC 293/3.0 or *MUSC 291/6.0* or permission of the School.

MUSC 395/3.0 Internship

Students can apply to undertake a practical internship in applied music, music education, or administration.

NOTE Students will be given a grade of Pass/Fail for work done.

LEARNING HOURS 120 (96O;24P)

PREREQUISITE Level 3 or above and registration in a MUSC Plan and a GPA of 2.9 in MUSC and permission of the School.

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 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.

LEARNING HOURS 114 (36L;78P)

PREREQUISITE MUSC 293/3.0 or *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.

LEARNING HOURS 114 (36L;78P)

PREREQUISITE MUSC 293/3.0 or *MUSC 291/6.0* or permission of the School.

MUSC 400/1.5 Small Ensemble

Chamber music or small ensemble experience for qualified instrumentalists and singers. Topics vary. Course includes weekly or bi-weekly coachings and a minimum of one evaluation and/or concert per term for all students. Credit attained only with regular attendance, active participation, and ample preparation.

LEARNING HOURS VARY

PREREQUISITE Permission of the School upon audition.

MUSC 412/1.5 Medium Ensemble

Mid-size ensemble experience for qualified performers. Topics vary. Course includes weekly rehearsals of a wider variety of repertoire, and a minimum of one concert per term for all students. Credit attained only with regular attendance, active participation, and ample preparation.

LEARNING HOURS 168 (72Pc;96P)

PREREQUISITE Permission of the School upon audition.

MUSC 415/1.5 Large Ensemble

Large ensemble for qualified instrumentalists and singers. Topics vary. Course includes weekly rehearsals of a wide variety of repertoire, and a minimum of one concert per term, for all students. Credit attained only with regular attendance, active participation, and ample preparation.

LEARNING HOURS 168 (72Pc;96P)

PREREQUISITE Permission of the School upon audition.

MUSC 420/6.0 Applied Study IV (Performance)

Continuation of MUSC 320/6.0.

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.

PREREQUISITE A grade of B in both MUSC 320/6.0 and MUSC 325/6.0.

COREQUISITE MUSC 425/6.0.

EXCLUSION No more than 6.0 units from MUSC 420/6.0; MUSC 421/6.0.

EXCLUSION No more than 6.0 units from MUSC 420/6.0; MUSC 424/6.0.

MUSC 421/6.0 Applied Study IV

Continuation of MUSC 321/6.0.

NOTE Accompanist fee - wind, brass, string, and voice students.

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.

EXCLUSION No more than 6.0 units from MUSC 421/6.0; MUSC 424/6.0.

EXCLUSION No more than 6.0 units from MUSC 421/6.0; MUSC 425/6.0.

MUSC 424/6.0 Applied Music

Continuation of MUSC 324/6.0.

NOTE Open to non-B.Mus. students only.

NOTE Accompanist fee - wind, brass, string, and voice students.

PREREQUISITE 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 Dan School of Music.

NOTE Accompanist fee - wind, brass, string, and voice students.

COREQUISITE MUSC 420/6.0.

EXCLUSION No more than 6.0 units from MUSC 421/6.0; MUSC 425/6.0.

MUSC 438/3.0 Music Education Seminar

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE MUTH 387/3.0 or permission of the School.

MUSC 443/3.0 Introduction to Schenkerian Analysis

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.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE *MUSC 291/6.0* or MUSC 293/3.0

MUSC 445/3.0 Topics in Advanced Analysis

Intensive study of a particular style or method of analysis, usually of a specific musical genre.

LEARNING HOURS 126 (36S;120;78P)

PREREQUISITE MUSC 392/3.0 or permission of the School.

MUSC 446/3.0 Advanced Analysis of 20th-Century Music

Advanced study of an aspect of organization in 20th-century music through analysis of the repertoire and analytical readings.

LEARNING HOURS 126 (36S;120;78P)

PREREQUISITE MUSC 392/3.0 or permission of the School.

MUSC 451/3.0 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 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

A continuation of MUSC 352/3.0, MUSC 355/6.0.

NOTE Students must submit in writing to the 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 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.

LEARNING HOURS 264 (24I;240P)

PREREQUISITE MUSC 351/3.0 or MUSC 354/6.0.

MUSC 455/6.0 Electroacoustic Composition

A continuation of MUSC 352/3.0, MUSC 355/6.0.

NOTE Students must submit in writing to the Music Office their request to apply for this course by the last day of classes in the Winter Term.

PREREQUISITE (MUSC 352/3.0 or MUSC 355/6.0 or MUSC 356/6.0) and permission of the School.

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.

PREREQUISITE MUTH 387/3.0.

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 Dan School of Drama and 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 Dan School of Drama and 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. Topics vary by year.

LEARNING HOURS 120 (24S;12G;24O;60P)

PREREQUISITE Level 3 or above and permission of the School.

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.

LEARNING HOURS 127 (36L;91P)

PREREQUISITE (MUSC 293/3.0 or *MUSC 291/6.0*) and [(MUSC 210/3.0 or MUSC 211/3.0) or (*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

A detailed examination of the life, times and works of a particular composer. Content varies from year to year.

LEARNING HOURS 127 (36L;91P)

PREREQUISITE (MUSC 293/3.0 or *MUSC 291/6.0*) and [(MUSC 210/3.0 or MUSC 211/3.0) or (*MUSC 203/3.0* or *MUSC 204/3.0* or *MUSC 205/3.0*)] or permission of the School.

MUSC 486/3.0 Area Studies in Ethnomusicology

An intensive study of the music culture of a specific country or geographical area.

PREREQUISITE (Level 3 or above and [*MUSC 103/3.0* or MUSC 289/3.0]) or permission of the School.

MUSC 490/3.0 Gender and Popular Music

In this course we explore gender, sexuality and performativity in Western popular music with an emphasis on musical technologies, musical consumption practices, and sonic and visual texts. A range of musical genres will be covered with a particular emphasis on rock, pop, country, rap, and R and B.

NOTE Not open to students who previously have taken Gender and Popular Music as a special topics course (MUSC 475/3.0, Special Topics in Music I).

LEARNING HOURS 120 (36S;12O;72P)

PREREQUISITE Level 3 or above.

EXCLUSION No more than 3.0 units from MUSC 475/3.0 (2013-14 to 2016-17); MUSC 490/3.0.

MUSC 491/3.0 Music and Mass Media

In this course we explore both how we consume sound and music within a range of media (film, television, radio), and where we consume it (homes, elevators, gyms, grocery stores) in order to help educators think critically about the functions and effects of sound and music in everyday environments.

NOTE Not open to students who previously have taken Music and Mass Media as a special topics course (MUSC 470/3.0, Topics in Music Education I).

LEARNING HOURS 120 (36S;12O;72P)

PREREQUISITE Level 3 or above.

EXCLUSION No more than 3.0 units from MUSC 470/3.0 (2011-12 to 2014-15); MUSC 491/3.0.

MUSC 500/6.0 Honours Thesis

A substantive research project in music on a topic of the student's choice, completed under the supervision of a faculty member.

NOTE MUTH 380/3.0 is recommended as a prerequisite for bibliographic and qualitative projects. MUTH 387/3.0 is recommended for quantitative projects.

LEARNING HOURS 220 (36I;184P)

EQUIVALENCY *MUSC 592/6.0*.

PREREQUISITE Level 4 and registration in a MUSC Major Plan and permission of the School.

COREQUISITE MUTH 380/3.0 or MUTH 387/3.0.

EXCLUSION No more than 6.0 units from MUSC 500/6.0; *MUSC 592/6.0*.

MUSC 501/3.0 Directed Special Study

Advanced supervised study in music research.

NOTE In addition to the prerequisites indicated, the School may require a grade of A- in any MUSC course relevant to the subject of study.

LEARNING HOURS 110 (18I;92P)

EQUIVALENCY *MUSC 473/3.0, MUSC 474/3.0.*

PREREQUISITE Level 4 and a GPA of 3.50 in MUSC and permission of the School.

EXCLUSION No more than 3.0 units from MUSC 501/3.0; *MUSC 473/3.0.*

EXCLUSION No more than 3.0 units from MUSC 501/3.0; *MUSC 474/3.0.*

MUTH 110/3.0 The Republic to Rationalism: History, Arts, and Performance I

An introduction to the study of Western music, theatre, fine art, and literature in historical and global perspective. Using drama and music as a focal point, this interdisciplinary course will place artistic creation in a social, philosophical, and political chronological framework. Key periods include European Antiquity, Renaissance, and Baroque.

LEARNING HOURS 114 (36L;36O;42P)

MUTH 111/3.0 Listening to Revolutions: History, Arts, and Performance II

An introduction to the study of Western music, theatre, fine art, and literature in historical and global perspective. Using drama and music as a focal point, this interdisciplinary course will place artistic creation in a social, philosophical, and political chronological framework. Key periods include European Romanticism, Modernism, and Popular Culture.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 114 (36L;36O;42P)

MUTH 160/1.5 Music Theatre Ensemble

Performance experience for qualified musicians in a staged vocal ensemble. Topics include musical theatre, opera, or other ensemble formats combining voice and drama.

NOTE Placement is made at the discretion of the School based on an audition or other criteria.

LEARNING HOURS 168 (72Pc;24G;72P)

PREREQUISITE Permission of the School.

MUTH 201/3.0 Sex and Violence in Performance

This course is structured around a series of case studies of particular moments in the history of the representation of sex and violence in dramatic and musical performances.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (60O;60P)

PREREQUISITE Level 2.

MUTH 210/3.0 Music Theatre Vocal Techniques

A study of vocal techniques from Legitimate in the Golden Age of Musical Theatre to Belt/Mixed Belt in contemporary musicals and popular music culture. The course incorporates current research in the functional utility of breath and sound production. Emphasis is on the application of practical singing/listening skills and critical analysis skills.

LEARNING HOURS 120 (24S;12G;84P)

PREREQUISITE Registration in a B.M.T. Plan, or permission of the School upon successful audition.

MUTH 211/3.0 Dance for Music Theatre

A continuation of dance and performance techniques developed in previous instruction. This course will include the study of the creation of choreography for ensemble members. Students will learn to choreograph a musical theatre piece with a proper historical context, technique, and relationship to appropriate text.

LEARNING HOURS 120 (36S;18G;66P)

PREREQUISITE Registration in a B.M.T. Plan, or permission of the School upon successful audition.

MUTH 231/3.0 Musical Theatre

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 2 and registration in a DRAM; MUSC; or B.M.T. Plan or permission of the School.

EQUIVALENCY *DRAM 216/3.0.*

MUTH 232/3.0 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.

LEARNING HOURS 120 (36L;84P)

EQUIVALENCY *MUSC 287/3.0.*

MUTH 240/3.0 Digital Disruption in the Creative and Performing Arts

With so many digital disruptions and new intermediaries affecting the way creative works are conceived, created, distributed, and consumed, this course explores a range of impacts on the entertainment sector, inspired by the Internet, digital convergence, and mass adoption of mobile and social consumer technologies.

LEARNING HOURS 120 (12L;48O;60P)

MUTH 260/1.5 Music Theatre Ensemble

Performance experience for qualified musicians in a staged vocal ensemble. Topics include musical theatre, opera, or other ensemble formats combining voice and drama.

NOTE Placement is made at the discretion of the School based on an audition or other criteria.

LEARNING HOURS 168 (72Pc;24G;72P)

PREREQUISITE MUTH 160/1.5 and permission of the School.

MUTH 310/3.0 Dancer-Singer in Music Theatre

An applied course focused on the integration of advanced-level singing and dancing techniques in the rehearsal and performance of musical theatre scenes. Through written assignments and performance, students prepare and perform scenes that integrate the work of the composer, lyricist, and book writer.

LEARNING HOURS 120 (24S;12G;84P)

PREREQUISITE A grade of B- in MUTH 210/3.0 and MUTH 211/3.0, or permission of the School upon successful audition.

MUTH 320/3.0 Song Interpretation

Preparation and examination of selected Lieder, music theatre, and/or opera aria repertoire in duo form for singers and pianists. Aspects of interpretation and execution of each performance will be discussed by instructors, with additional input from class participants.

NOTE A previous course in keyboard accompaniment or fluency in sight-reading is highly recommended for pianists taking this course.

LEARNING HOURS 108 (36G;72P)

PREREQUISITE Level 3 or above and (MUSC 121/6.0 or MUSC 124/6.0 or MUTH 210/3.0).

MUTH 329/3.0 Topics in Music Theatre

An intensive study of a particular topic within the area of Music Theatre.

LEARNING HOURS 120 (36S;24O;60P)

PREREQUISITE Level 3 and registration in a DRAM; MUSC; or B.M.T. Plan, or permission of the School.

MUTH 331/3.0 Music Theatre Practicum

Preparation and production of the school or community musical. Practical examination of planning and rehearsal techniques. Analysis of relevant factors.

LEARNING HOURS 120 (12L;24Pc;12O;72P)

EQUIVALENCY *MUSC 373/3.0.*

PREREQUISITE (Level 3 or above and registration in a MUSC Plan) or (registration in a BMT Plan) or MUTH 231/3.0.

MUTH 332/3.0 Opera Performance

Exploration and discussion of historical and contemporary performances as well as theories of acting, character development, staging and other topics related to Opera performance. Knowledge will be applied and expanded through live performance of scenes from the repertoire. Course may focus on a specific work, composer, or theme.

LEARNING HOURS 120 (12L;24Lb;84P)

PREREQUISITE Level 3 and permission of the School upon successful audition.

MUTH 340/3.0 Arts Professionalism

An introduction to the principles and skills necessary for a successful career in the arts centered around business aspects as well as important facets of professionalism required in today's arts fields. Topics may include business practices, concert planning, grant writing, promotion and publicity, and the role of supporting professionals.

LEARNING HOURS 120 (36L;24O;60P)

EQUIVALENCY *MUSC 340/3.0.*

PREREQUISITE Level 3 or above and registration in an ARTF, ARTH, BMT, DRAM, FILM, MUSC, or STSC Plan.

EXCLUSION No more than 3.0 units from DRAM 319/3.0 (Fall 2016); MUTH 340/3.0.

MUTH 360/1.5 Music Theatre Ensemble

Performance experience for qualified musicians in a staged vocal ensemble. Topics include musical theatre, opera, or other ensemble formats combining voice and drama.

NOTE Placement is made at the discretion of the School based on an audition or other criteria.

LEARNING HOURS 168 (72Pc;24G;72P)

PREREQUISITE MUTH 260/1.5 and permission of the School.

MUTH 380/3.0 Research Methods in the Performing Arts

Further development of research skills from foundational courses, investigating bibliographic, archival, ethnographic, and embodied research methodologies. Other topics include critical theories, ethical considerations, and issues of representation.

LEARNING HOURS 120 (36S;36O;48P)

PREREQUISITE Level 3 or above.

EXCLUSION No more than 3.0 units from MUTH 380/3.0; *MUSC 385/3.0*.

EXCLUSION No more than 3.0 units from MUTH 380/3.0; *MUSC 386/3.0*.

MUTH 387/3.0 Research in Performing Arts Education

The course examines research and research methodologies that underpin the discipline.

LEARNING HOURS 120 (36G;12O;72P)

PREREQUISITE Level 3 or above and registration in a BMT or DRAM or MUSC Plan.

MUTH 440/3.0 Selected Opera Designers

An analysis of selected opera designers focusing on the kinaesthetics of design for opera to reflect society. Emphasis is placed on the intersections of music with singing, and choreography and a dynamic visuality.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 4 and registration in a DRAM, MUSC, MUTH, STSC or COCA Plan.

EXCLUSION No more than 3.0 units from DRAM 419/3.0-001 (2017-2018); MUTH 440/3.0.

MUTH 460/1.5 Music Theatre Ensemble

Performance experience for qualified musicians in a staged vocal ensemble. Topics include musical theatre, opera, or other ensemble formats combining voice and drama.

NOTE Placement is made at the discretion of the School based on an audition or other criteria.

LEARNING HOURS 168 (72Pc;24G;72P)

PREREQUISITE MUTH 360/1.5 and permission of the School.

MUTH 500/6.0 Senior Project

An independent advanced project or thesis in any area of the basic curriculum in music/theatre, supervised and evaluated by faculty.

NOTE In addition to the prerequisites indicated, the School may require a grade of A- in any DRAM, MUSC or MUTH course relevant to the subject of study.

LEARNING HOURS 220 (36I;184P)

PREREQUISITE Level 4 and a GPA of 3.50 in DRAM/MUSC/MUTH and permission of the School.

MUTH 501/3.0 Directed Special Study

An independent advanced project in any area of the basic curriculum in music/theatre, supervised and evaluated by faculty.

NOTE In addition to the prerequisites indicated, the School may require a grade of A- in any DRAM, MUSC or MUTH course relevant to the subject of study.

LEARNING HOURS 110 (18I;92P)

PREREQUISITE Level 4 and a GPA of 3.50 in DRAM/MUSC/MUTH and permission of the School.

NSCI 323/3.0 Cellular Neuroscience

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 BIOL 339/3.0 or KNPE 125/3.0 or KNPE 225/3.0 or (PHGY 215/3.0 and PHGY 216/3.0) or PSYC 271/3.0 or PHGY 210/6.0 or PHGY 212/6.0 or PHGY 214/6.0.

NSCI 324/3.0 Systems Neuroscience

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 215/3.0 and PHGY 216/3.0) or PSYC 271/3.0 or NSCI 323/3.0 or PHGY 210/6.0 or PHGY 212/6.0 or PHGY 214/6.0.

NSCI 401/3.0 Introduction to Theoretical Neuroscience

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.

PREREQUISITE Level 4 and registration in a LISC Major or Specialization Plan and a GPA of 2.5 and (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 CHEE 209/3.0 or GPHY 247/3.0 or KNPE 251/3.0 or POLS 385/3.0 or NURS 323/3.0 or PHED 251/3.0).

NSCI 403/3.0 Introduction to Neuroimaging

This course covers the theory and practice of modern neuroimaging methods. Topics include data acquisition, research study design, and analysis methods. Functional MRI is presented in the most depth, but computed tomography (CT), positron emission tomography (PET), and single photon emission computed tomography (SPECT), are also covered.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 4 and registration in a LISC Major or Specialization Plan and a GPA of 2.5 and one of (NSCI 323/3.0 or NSCI 324/3.0 or ANAT 312/3.0 or PSYC 271/3.0).

NSCI 414/3.0 Progress in Neuroanatomy and Neuropharmacology

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.

LEARNING HOURS 130 (24L;10T;96P)

PREREQUISITE A GPA of 2.5 and (a grade of B- in ANAT 312/3.0 or NSCI 323/3.0 or PHAR 340/3.0).

COREQUISITE NSCI 324/3.0.

NSCI 422/3.0 Cellular and Molecular Neuroscience

A course providing 1) the essentials in cellular and molecular neuroscience to pursue a graduate program and/or a career in neuroscience or related field, and 2) independent learning and communication skills applicable broadly. The course is divided into three segments: 1) neuronal integration, 2) synaptic plasticity, and 3) neuromodulation.

NOTE BMCO students should contact the Department regarding prerequisites.

LEARNING HOURS 119 (12L;24S;8G;6I;69P)

PREREQUISITE Level 4 and registration in the LISC Major or Specialization Plan and a GPA of 2.5 and a minimum grade of B in NSCI 323/3.0.

NSCI 429/3.0 Disorders of the Nervous System

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 Level 4 and registration in a LISC Major or Specialization Plan and a GPA of 2.5 and (NSCI 323/3.0 or NSCI 324/3.0 or ANAT 312/3.0 or PSYC 271/3.0).

NSCI 433/3.0 Cellular Elements of the Nervous System: Responses to Injury and Disease

Cellular dysfunction is a critical feature of neural injury and disease among humans. This course will examine the cellular elements of the mammalian central and peripheral nervous system, with an emphasis placed on understanding normal and abnormal cellular function in both humans and animal models.

NOTE Restricted to students registered in the 4th year.

LEARNING HOURS 114 (36L;36Lb;42P)

PREREQUISITE Registration in a LISC Major or Specialization Plan and a GPA of 2.5 and (NSCI 323/3.0 or NSCI 324/3.0) and (ANAT 309/3.0 or ANAT 312/3.0).

NSCI 444/3.0 Controversies in Neuroscience

As insight regarding the human brain expands, so do related issues such as what constitutes personhood, what drives the criminal mind, intelligence-enhancing drugs and end-of-life issues. Led by experts who deal daily with such concerns, we will focus weekly on a particular topic in neuroscience which impacts on society.

LEARNING HOURS 108 (12L;24S;72P)

PREREQUISITE Level 4 and registration in a LISC Major or Specialization Plan and a GPA of 2.5 and (ANAT 312/3.0 or NSCI 323/3.0 or NSCI 324/3.0 or PSYC 271/3.0).

NSCI 491/3.0 Directed Special Laboratory

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 complete the Introductory Animal Care Course and if required the appropriate Animal Use workshops through the Office of the University Veterinarian.

PREREQUISITE Availability of a supervisor and permission of the course coordinator; level 4 in the LISC Specialization Plan, NSCI Sub-Plan.

NSCI 499/12.0 Research Project in Neuroscience

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 Acceptance by a supervisor required prior to registration.

NOTE Students whose research requires the care and/or handling of animals must also complete the Introductory Animal Care Course and if required the appropriate Animal Use workshops through the Office of the University Veterinarian.

LEARNING HOURS 480 (288Lb;24G;24I;144P)

PREREQUISITE Level 4 and registration in a LISC Specialization Plan and a GPA of 2.50.

EXCLUSION No more than 12.0 units from ANAT 499/12.0; CANC 499/12.0; EPID 499/12.0; LISC 499/12.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHAR 499/12.0; PHGY 499/12.0, *MICR 455/6.0*.

PACT P01/0.0 Aquatics

This is a prerequisite course for Fall Camp School. 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.

PACT 100/3.0 Fundamental Practicum in Physical Activity

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.

LEARNING HOURS 108 (16L;32Pc;60P)

PREREQUISITE Registration in a PHED Specialization Plan.

PACT 237/3.0 Practicum in Physical Activity for Children

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.

LEARNING HOURS 114 (24S;30Oc;60P)

PREREQUISITE PACT 100/3.0 and KNPE 237/3.0.

EXCLUSION No more than 3.0 units from KNPE 337/3.0; PACT 237/3.0.

PACT 333/3.0 Practicum in Physical Activity for Persons with Disabilities

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 HLTH 332/3.0 Foundations for Understanding Disability 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.

LEARNING HOURS 126 (18Lb;6Pc;36Oc;12O;54P)

PREREQUISITE PACT 237/3.0.

COREQUISITE HLTH 332/3.0.

PACT 335/3.0 Practicum in Physical Activity for Seniors

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.

LEARNING HOURS 114 (18S;36Oc;60P)

PREREQUISITE 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.

NOTE An additional fee of \$400 is charged to defray the costs of transportation, accommodation, food, and general equipment for the outdoor education camp school.

PREREQUISITE Level 3 or 4 in a PHED Specialization Plan and PACT P01/0.0.

PACT 403/3.0 Intensive Coaching

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. This course is designed as an independent project. Students must arrange for a coaching supervisor approved by SKHS.

LEARNING HOURS 120 (12I;48Oc;60P)

PREREQUISITE PACT 100/3.0 and KNPE 203/3.0 and permission of the supervisor and Undergraduate Coordinator in the School of Kinesiology and Health Studies.

PATH 310/3.0 Pathology and Molecular Medicine

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 BCHM 310/9.0 or (BCHM 315/3.0 and BCHM 316/3.0) and *PHGY 212/6.0*.

PREREQUISITE BCHM 218/3.0.

PATH 425/3.0 Current Topics in Human Genetics

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 BCHM 218/3.0 or permission of the course coordinator.

PREREQUISITE Level 4 and registration in a LISC major or Specialization Plan and a GPA of 2.5 and [PATH 310/3.0 or (a grade of B in BIOL 205/3.0)].

EXCLUSION No more than 3.0 units from BIOL 441/3.0; PATH 425/3.0.

PATH 430/3.0 Molecular Basis of Disease

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.

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 499/12.0 Research Project in Pathology

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 Acceptance by a supervisor required prior to registration.

NOTE Students whose research requires the care and/or handling of animals must also complete the Introductory Animal Care Course and if required the appropriate Animal Use workshops through the Office of the University Veterinarian.

LEARNING HOURS 480 (288Lb;24G;24I;144P)

PREREQUISITE Level 4 and registration in a LISC Specialization Plan and a GPA of 2.50.

EXCLUSION No more than 12.0 units from ANAT 499/12.0; CANC 499/12.0; EPID 499/12.0; LISC 499/12.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHAR 499/12.0; PHGY 499/12.0, *MICR 455/6.0*.

PHAR 100/3.0 Introductory Pharmacology

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 online. Consult the Bachelor of Health Sciences program office.

RECOMMENDATION 4U Biology.

ONE-WAY EXCLUSION May not be taken with or after: PHAR 230/3.0; PHAR 270/3.0; PHAR 340/3.0; PHAR 450/3.0.

PHAR 230/3.0 Pharmacology for the Health Sciences

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.

LEARNING HOURS 122 (36L;8G;78P)

COREQUISITE (PHGY 215/3.0 and PHGY 216/3.0) or KNPE 225/3.0 or *PHGY 210/6.0* or *PHGY 214/6.0*.

EXCLUSION No more than 3.0 units from PHAR 230/3.0; PHAR 270/3.0; PHAR 340/3.0.

PHAR 270/3.0 Fundamentals of Pharmacology and Therapeutics

This course introduces the basic principles in clinical applications of pharmacology. Topics covered include the general principles of drug therapy, the use of therapeutics in the nervous, cardiovascular, respiratory, endocrine and gastrointestinal systems and drugs used in infection, inflammation and cancer.

NOTE Only offered online. Consult the Bachelor of Health Sciences program office.

NOTE Not available to BNSc students.

NOTE May not be taken for credit towards the Plan requirements of the LISC Specialization or Major Plans.

LEARNING HOURS 114 (36O;78P)

PREREQUISITE One of (PHGY 215/3.0 and PHGY 216/3.0) or KNPE 225/3.0 or *PHGY 210/6.0* or *PHGY 214/6.0*.

EXCLUSION No more than 3.0 units from PHAR 230/3.0; PHAR 270/3.0; PHAR 340/3.0.

PHAR 340/3.0 Principles of General Pharmacology I

Topics include: fundamental principles of drug action, autonomic nervous system pharmacology, and toxicology.

LEARNING HOURS 120 (27L;24T;69P)

PREREQUISITE (PHGY 215/3.0 and PHGY 216/3.0) or *PHGY 210/6.0* or *PHGY 212/6.0* or *PHGY 214/6.0*.

COREQUISITE BCHM 310/9.0 or BCHM 315/3.0 or BIOL 334/3.0 or CHEM 323/3.0.

EXCLUSION No more than 3.0 units from PHAR 230/3.0; PHAR 270/3.0; PHAR 340/3.0.

PHAR 380/3.0 Drug and Environmental Toxicology

This course will explore the human toxicology associated with both pharmaceutical and environmental exposures. Topics include metabolism and mechanisms of toxicity of various pharmaceuticals and environmental pollutants. Toxicological effects of specific classes of environmental toxicants and different groups of pharmaceuticals are also discussed.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (60O;60P)

PREREQUISITE Level 3 or above and (BCHM 270/3.0 or BCHM 315/3.0 or BCHM 316/3.0 or BCHM 218/3.0 or BIOL 334/3.0).

EXCLUSION No more than 3.0 units from PHAR 380/3.0; PHAR 416/3.0.

PHAR 416/3.0 Xenobiotic Disposition and Toxicity

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 4 and a GPA of 2.5 and (BCHM 310/9.0 or BCHM 316/3.0 or BIOL 334/3.0 or PHAR 340/3.0).

PHAR 450/3.0 Principles of General Pharmacology II

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 230/3.0 or PHAR 270/3.0 with a minimum grade of B+) or PHAR 340/3.0.

PHAR 480/3.0 Drug Discovery and Development

This survey course covers the life-cycle of a pharmaceutical product including drug discovery, development, and its transition to a generic or over-the-counter medication.

NOTE Only offered online. Consult Arts and Science Online.

NOTE This course cannot be used as credit towards the Life Sciences Specialization Plan DDHT.

LEARNING HOURS 120 (60O;60P)

PREREQUISITE Level 4 and (PHAR 230/3.0 or PHAR 270/3.0 or PHAR 340/3.0) and (PHAR 380/3.0 or PHAR 416/3.0).

EXCLUSION No more than 3.0 units from DDHT 459/3.0; PHAR 480/3.0.

EXCLUSION No more than 3.0 units from DDHT 460/3.0; PHAR 480/3.0.

PHAR 499/12.0 Research Project in Pharmacology and Toxicology

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 Acceptance by a supervisor required prior to registration.

NOTE Students whose research requires the care and/or handling of animals must also complete the Introductory Animal Care Course and if required the appropriate Animal Use workshops through the Office of the University Veterinarian.

LEARNING HOURS 480 (288Lb;24G;24I;144P)

PREREQUISITE Level 4 and registration in a LISC or ELSC Specialization Plan and a GPA of 2.50.

EXCLUSION No more than 12.0 units from ANAT 499/12.0; CANC 499/12.0; EPID 499/12.0; LISC 499/12.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHAR 499/12.0; PHGY 499/12.0, *MICR 455/6.0*.

PHGY 170/3.0 Human Cell Physiology

This is an introductory level course on the structure and function of human cells for students interested in pursuing human health-related disciplines. Students will also learn the principles of energy metabolism, cell growth and proliferation, and how cells interact with their environment. There is also an overall focus to relate cellular processes to human function and disease, culminating in a group presentation focused on one specific cell process and how it affects health. Students taking this course will be well-prepared for upper year molecular biology courses.

NOTE Only offered online. Consult the Bachelor of Health Sciences program office.

LEARNING HOURS 114 (36O;78P)

ONE-WAY EXCLUSION May not be taken with or after KNPE 225/3.0.

EXCLUSION No more than 3.0 units from KNPE 125/3.0; PHGY 170/3.0

PHGY 215/3.0 Principles of Mammalian Physiology I

The focus of this course is on the central and peripheral nervous systems, muscle physiology, the heart, and the vascular system.

NOTE This course may be paired with PHGY 216/3.0 to achieve an introductory physiology full course (6.0 units).

NOTE Although it is recommended to take PHGY 215/3.0 first, this course can be taken before, after, or concurrently with PHGY 216/3.0.

NOTE Also offered online. Consult the Bachelor of Health Sciences program office. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above.

EXCLUSION No more than 6.0 units from (KNPE 125/3.0 and KNPE 225/3.0) or (PHGY 215/3.0 and PHGY 216/3.0) or *PHGY 210/6.0* or *PHGY 212/6.0* or *PHGY 214/6.0*.

PHGY 216/3.0 Principles of Mammalian Physiology II

The focus of this course is the physiology of the respiratory, renal, gastrointestinal, endocrine, and reproductive system.

NOTE This course may be paired with PHGY 215/3.0 to achieve an introductory physiology full course (6.0 units).

NOTE Although it is recommended to take PHGY 215/3.0 first, PHGY 216/3.0 can also be taken before or concurrently with PHGY 215/3.0.

NOTE Also offered online. Consult the Bachelor of Health Sciences program office. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION PHGY 215/3.0.

PREREQUISITE Level 2 or above.

EXCLUSION No more than 6.0 units from (KNPE 125/3.0 and KNPE 225/3.0) or (PHGY 215/3.0 and PHGY 216/3.0) or *PHGY 210/6.0* or *PHGY 212/6.0* or *PHGY 214/6.0*.

PHGY 350/3.0 Pathophysiology

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.

LEARNING HOURS 114 (36L;60;72P)

PREREQUISITE (PHGY 215/3.0 and PHGY 216/3.0) or (KNPE 125/3.0 and KNPE 225/3.0) or *PHGY 210/6.0* or *PHGY 212/6.0* or *PHGY 214/6.0*.

PHGY 355/3.0 Biomedical Respiratory Physiology

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 215/3.0 and PHGY 216/3.0) or *PHGY 210/6.0* or *PHGY 212/6.0* or *PHGY 214/6.0*.

PHGY 424/3.0 Ion Channels of Excitable Cells

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 Level 4 and registration in a LISC Major or Specialization Plan and a GPA of 2.5 and [a minimum grade of C in (PHGY 215/3.0 and PHGY 216/3.0) or *PHGY 210/6.0* or *PHGY 212/6.0* or *PHGY 214/6.0*].

PHGY 444/3.0 Gastrointestinal Physiology

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 Level 4 and registration in a LISC Major or Specialization Plan and a GPA of 2.5 and [a minimum grade of C in (PHGY 215/3.0 and PHGY 216/3.0) or *PHGY 210/6.0* or *PHGY 212/6.0* or *PHGY 214/6.0*].

PHGY 494/3.0 Neuroendocrinology

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.

LEARNING HOURS 114 (36S;12O;96P)

PREREQUISITE Level 4 and registration in a LISC Major or Specialization Plan and a GPA of 2.5 and [a minimum grade of B in (PHGY 215/3.0 and PHGY 216/3.0) or *PHGY 210/6.0* or *PHGY 212/6.0* or *PHGY 214/6.0*].

PHGY 499/12.0 Research Project in Physiology

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 Acceptance by a supervisor required prior to registration.

NOTE Students whose research requires the care and/or handling of animals must also complete the Introductory Animal Care Course and if required the appropriate Animal Use workshops through the Office of the University Veterinarian.

LEARNING HOURS 480 (288Lb;24G;24I;144P)

PREREQUISITE Level 4 and registration in a LISC Specialization Plan and a GPA of 2.50.

EXCLUSION No more than 12.0 units from ANAT 499/12.0; CANC 499/12.0; EPID 499/12.0; LISC 499/12.0; MICR 499/12.0; NSCI 499/12.0; PATH 499/12.0; PHAR 499/12.0; PHGY 499/12.0, *MICR 455/6.0*.

PHIL 111/6.0 What is Philosophy?

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 Students considering a Major or Medial Plan in PHIL are strongly urged to take PHIL 111/6.0 or PHIL 115/6.0 in their first year.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 240 (72L;168P)

EXCLUSION No more than 1 course from PHIL 111/6.0; PHIL 151/3.0.

PHIL 115/6.0 Fundamental Questions

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.

NOTE Students considering a Major or Medial Plan in PHIL are strongly urged to take PHIL 111/6.0 or PHIL 115/6.0 in their first year.

LEARNING HOURS 240 (48L;24T;168P)

PHIL 151/3.0 Great Works of Philosophy

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.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (24L;12T;84P)

EXCLUSION No more than 1 course from PHIL 111/6.0; PHIL 151/3.0.

PHIL 153/3.0 The State and the Citizen

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.

LEARNING HOURS 120 (36L;84P)

PHIL 157/3.0 Moral Issues

An introduction to ethics via an examination of controversial moral issues. Special topics: abortion; animal rights; euthanasia.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PHIL 201/3.0 Philosophy and Medicine

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or completed 6.0 units in PHIL.

PHIL 203/3.0 Science and Society

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or completed 6.0 units in PHIL.

PHIL 204/3.0 Life, Death, and Meaning

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or completed 6.0 units in PHIL.

PHIL 233/3.0 **Greek Philosophy**

This course will survey central works of Ancient Greek Philosophy from Thales and the other Pre-Socratics through the seminal works of Plato and Aristotle, and may include examples of later works by Post-Hellenic Philosophers including Plotinus, the Stoics, and the Skeptics.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or completed 6.0 units in PHIL.

PHIL 240/3.0 **Philosophy of Education**

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or completed 6.0 units in PHIL.

PHIL 247/3.0 **Practical Ethics**

This course will subject a range of issues in practical ethics to philosophical scrutiny. Topics may include obligations to future generations, the ethics of war and self-defence, whether torture is ever permissible, the ethics of deception, the morality of genetic enhancement, the nature of exploitation, and moral objections to organ sales.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or completed 6.0 units in PHIL.

PHIL 250/6.0 **Epistemology and Metaphysics**

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.

LEARNING HOURS 240 (72L;168P)

PREREQUISITE (A GPA of 2.0 in 6.0 units in PHIL) or (a grade of B- in 3.0 units in PHIL and registration in a COGS Plan).

PHIL 256/3.0 **Existentialism**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or completed 6.0 units in PHIL.

PHIL 257/6.0 **Ethics**

A study of problems in moral and/or political philosophy from the ancient or early modern period to the present.

LEARNING HOURS 240 (76L;168P)

PREREQUISITE A GPA of 2.0 in 6.0 units in PHIL.

PHIL 259/3.0 **Critical Thinking**

A discussion of the general principles of reasonable discourse, with a focus on persuasive and cogent writing.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Studies Centre, Herstonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PHIL 261/3.0 **Philosophy of Mathematics**

A discussion of some ontological and epistemological problems associated with mathematics.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or completed 6.0 units in PHIL.

PHIL 263/3.0 **Philosophy of Religion**

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 Level 2 or above or completed 6.0 units in PHIL.

PHIL 270/3.0 **Minds and Machines**

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.

NOTE Each week, students will be assigned a number of articles or chapters for reading and will be expected to be able to discuss the readings in class.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or completed 6.0 units in PHIL.

PHIL 271/3.0 **Philosophy and Literature**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or completed 6.0 units in PHIL.

PHIL 273/3.0 **Continental Philosophy, 1800-1900**

This lecture course provides an analysis of key figures and texts in nineteenth-century continental European philosophy. Possible figures include Georg Wilhelm Friedrich Hegel, Soren Kierkegaard, Friedrich Nietzsche, and Wilhelm Dilthey. Possible topics include post-Kantian idealism, existentialism, and hermeneutics.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or completed 6.0 units in PHIL.

PHIL 275/3.0 **Thinking Gender, Sex, and Love**

What is at stake in how we think about gender, sex, and love? How do these concepts inform each other? What else defines them? Using classic and contemporary philosophical texts we examine presuppositions and alternative possibilities. Old and new insights are explored. Emphasis is on careful reading and critical thinking skills.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or completed 6.0 units in PHIL.

PHIL 276/3.0 **Critical Perspectives on Social Diversity**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or completed 6.0 units in PHIL.

PHIL 293/3.0 **Humans and the Natural World**

An introduction to environmental philosophy through a study of readings that have exercised a formative influence on Western thinking about the relationship between humans and the rest of nature, and hence also about human nature itself. The course will offer an environmental perspective on the history of philosophy from ancient to recent times.

NOTE Bus fare and entrance fee: estimate cost \$30.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or completed 6.0 units in PHIL.

PHIL 296/3.0 **Animals and Society**

This course introduces students to historical and contemporary debates regarding the treatment of nonhuman animals within Western societies, and explores our ethical responsibilities toward them. The course examines a range of human-animal relations, involving domesticated, working, research subjects and wild animals.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or completed 6.0 units in PHIL.

PHIL 301/3.0 Bioethics

An investigation of some moral issues arising in connection with health care, including: the relationship between patient and health care provider; reproductive decision-making; euthanasia and the nature of death; and the development of health care policy.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

PHIL 303/3.0 Ethics and Business

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

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

Specific topics in or traditions within Latin American and Caribbean Philosophy.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 and 12.0 units in PHIL, ENGL, HIST, or POLS.

PHIL 310/3.0 Development Ethics

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

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

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

PHIL 318/3.0 Philosophy of Law

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 Level 3 or above.

PHIL 324/3.0 African Philosophy

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 Level 3 or above.

PHIL 328/3.0 Ancient Philosophy

A study of selected topics in ancient philosophy.

PREREQUISITE (PHIL 250/6.0 or PHIL 257/6.0) or (6.0 units in PHIL and registration in a CLST Major or Medial Plan) or permission of the Department.

PHIL 329/3.0 Early Modern Philosophy

A study of selected topics in early modern philosophy.

LEARNING HOURS 120 (36L;84P)

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

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE PHIL 250/6.0 or PHIL 257/6.0 or permission of the Department.

PHIL 335/3.0 Introduction to Kant

An examination of the *Critique of Pure Reason*.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE PHIL 250/6.0 or permission of the Department.

PHIL 343/3.0 Social and Political Philosophy

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

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

An examination of the concept of freedom of the will, with emphasis on the problems generated by causation and the notion of responsibility.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE PHIL 250/6.0 or PHIL 257/6.0 or permission of the Department.

PHIL 351/3.0 Philosophy of Mind

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

The nature and varieties of metaphysics, including rationalistic 'Platonist' and empirical/descriptive 'Aristotelian' approaches. Positivist and pragmatic anti-metaphysical 'critiques' and verificationism. Contemporary analytical metaphysics after Quine and Strawson.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE PHIL 250/6.0 or permission of the Department.

PHIL 359/3.0 Philosophy of Language

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

From propositional calculus to first-order monadic predicate calculus. Symbolization, rules of inference, derivation and refutation of arguments.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A GPA of 2.0 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

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

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (6.0 units in PHIL or JWST) or permission of the Department.

PHIL 373/3.0 Continental Philosophy, 1900-1960

This lecture course provides an analysis of key figures and texts in continental European philosophy between 1900 and 1960. Possible figures include Edmund Husserl, Martin Heidegger, Karl Jaspers, Gabriel Marcel, Hannah Arendt, and Hans-Georg Gadamer. Possible topics include phenomenology, existentialism, and hermeneutics.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

PHIL 374/3.0 Continental Philosophy 1960-present

This lecture course provides an analysis of key figures and texts in continental European philosophy from 1960 to the present. Possible figures include Michel Foucault, Jacques Derrida, Jurgen Habermas, Emmanuel Levinas, Jean-Francois Lyotard, and Julia Kristeva. Possible topics include hermeneutics, postmodernism, critical theory and feminism.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

PHIL 376/3.0 Philosophy and Feminism

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.

PREREQUISITE (6.0 units in PHIL or GNDS at the 200-level or above) and (6.0 units in PHIL or GNDS) or permission of the Department.

PHIL 381/3.0 Philosophy of the Natural Sciences

Topics may include the nature of scientific method; the meaning of laws of nature; theoretical entities; scientific explanation; causality, induction, and probability.

PREREQUISITE Level 3 or above.

PHIL 382/3.0 Space-Time, Matter, and Reality

Contemporary physics has revolutionized our understanding of space, time, and matter. This has raised many fascinating philosophical issues, such as: Is time real? Is time travel possible? Is reality determinate, or does it depend on human observation? We will examine these and other questions in the context of physical theory.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

PHIL 383/3.0 Philosophy of Computing

What is computation? What has computer science taught us about ourselves and the world? Topics to be addressed include: the relationship between computability, logic, and mathematics; computation and cognition; the simulation hypothesis; infinity and paradox; natural computation; the nature of information; artificial intelligence; and more.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above.

PHIL 402/3.0 Current Issues in Moral Philosophy

An examination of major issues in contemporary moral philosophy. Topics to be studied may include contractualism, objectivity, practical reason, relativism and value realism.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 4 and (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 405/3.0 **Current Issues in Social and Political Philosophy**

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 (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 408/3.0 **Topics in the Philosophy of Law Seminar**

An examination of major issues in the philosophy of law. Possible topics to be studied include definitional questions, interpretivism, positivism, punishment and the relationship between law and morality.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 4 and (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 410/3.0 **Topics in the History of Philosophy**

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 (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 412/3.0 **Topics in Philosophy of Culture**

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 (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 420/3.0 **Ethical Issues**

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 (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 431/3.0 **Ancient Philosophy**

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 (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 441/3.0 **20th Century Philosophy**

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 (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 445/3.0 **Major Figures**

An examination of the key ideas from a major figure in the history of philosophy. Philosophers studies will vary from offering to offering, including Aristotle, Aquinas, Kant, Mill and Rawls.

PREREQUISITE Level 4 and (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300-level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 451/3.0 **Current Issues in Epistemology**

An examination of major issues in contemporary epistemology. Possible topics include justification, internalism and externalism, foundationalism and coherentism, and social epistemology.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 4 and (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 452/3.0 **Current Issues in Metaphysics**

An examination of major issues in contemporary metaphysics. Possible topics include causation, properties, time, modal theory, and induction.

PREREQUISITE Level 4 and (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 454/3.0 **Topics in Feminist Philosophy**

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 (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level) or (registration in a GNDS Major Plan)].

PHIL 459/3.0 **Current Issues in the Philosophy of Language**

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.

PREREQUISITE Level 4 and (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level) or (registration in a LING Major Plan)].

PHIL 464/3.0 **Topics in Philosophy of Mind**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 4 and (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 466/3.0 **Topics in the Philosophy of Art**

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 (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 467/3.0 **Hermeneutics**

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 (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 470/3.0 **Topics in Philosophy in Science**

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 (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 471/3.0 **Current Issues in Medical Epistemology**

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 (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)].

PHIL 473/3.0 **Philosophical Logic**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 4 and (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level)] and PHIL 361/3.0.

PHIL 493/3.0 **Ethics and the Environment**

This course examines issues in Ethics and the Environment. Possible topics include sustainable development, humans and nature, moral obligations to future generations.

NOTE Cost of bus fare: Estimated \$15.

PREREQUISITE Level 4 and (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level) or registration in a ENVS Medial Plan or ENSC Major plan or ENSC, EGPY, EBIO, ECHM, EGEO, ELSC or ETOX Specialization Plan)].

PHIL 497/3.0 **Ethics and Animals**

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 (PHIL 250/6.0 and PHIL 257/6.0) and (a minimum GPA of 2.4 in all 300-level PHIL) and [(registration in a PHIL Major Plan and 9.0 units of PHIL at the 300 level) or (registration in a PHIL Medial Plan and 6.0 units of PHIL at the 300-level) or registration in a ENVS Medial Plan or ENSC Major plan or ENSC, EGPY, EBIO, ECHM, EGEO, ELSC or ETOX Specialization Plan)].

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 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 permission of the Department.

PHYS P10/3.0 Fundamental Concepts in Physics for Teachers

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 This course may not be included in any Plan in Physics other than a Minor.

LEARNING HOURS 113 (12L;24Lb;10Pc;5I;18O;20Oc;24P)

PHYS P20/3.0 Physicists in the Nuclear Age

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 online. Consult Arts and Science Online.

PHYS P22/3.0 Physics Frontiers: From Colliding Black Holes to Disruptive Technologies

A descriptive course exploring concepts in physics at the frontiers of active research. Bypassing jargon and mathematical complexities, students will focus on the big questions at the extremes of our understanding of the universe around us. Designed for non-scientists who want to learn how we try to understand our fantastic, physic natural world.

LEARNING HOURS 114 (24L;24Pc;36O;18Oc;12P)

PHYS 104/6.0 Fundamental Physics

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.

LEARNING HOURS 240 (72L;36Lb;36T;96P)

RECOMMENDATION 4U Physics is required.

COREQUISITE MATH 120/6.0 or MATH 121/6.0 or (MATH 123/3.0 and MATH 124/3.0).

EXCLUSION No more than 6.0 units from PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0; PHYS 118/6.0.

PHYS 106/6.0 General Physics

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.

NOTE Also offered at the Bader International Study Centre. Learning Hours may vary.

LEARNING HOURS 240 (72L;36Lb;36T;96P)

RECOMMENDATION 4U Physics is required.

COREQUISITE MATH 120/6.0 or MATH 121/6.0 or (MATH 123/3.0 and MATH 124/3.0).

EXCLUSION No more than 6.0 units from PHYS 104/6.0; PHYS 106/6.0; PHYS 117/6.0; PHYS 118/6.0.

PHYS 117/6.0 Introductory Physics

An algebra-based course dealing with basic physics concepts, including dynamics, fluids, waves, electromagnetism, and basic optics. Emphasis is based on the development of problem-solving skills through the use of Mastery based course delivery. PHYS 117/6.0 includes a required lab component.

NOTE Manual: estimated cost \$15 per manual.

LEARNING HOURS 240 (72L;36Lb;36T;96P)

RECOMMENDATION 4U Physics is recommended.

EXCLUSION No more than 6.0 units from PHYS 104/6.0, PHYS 106/6.0; PHYS 117/6.0; PHYS 118/6.0.

PHYS 118/6.0 Basic Physics

An algebra-based course dealing with basic Physics concepts, including dynamics, fluids, waves, electromagnetism, and basic optics. Emphasis is placed on the development of problem-solving skills through the use of Mastery based course delivery.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 228 (132O;96P)

RECOMMENDATION 4U Physics is recommended.

EXCLUSION No more than 6.0 units from PHYS 104/6.0, PHYS 106/6.0; PHYS 117/6.0; PHYS 118/6.0.

PHYS 206/3.0 Dynamics

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.

PREREQUISITE (PHYS 104/6.0 or PHYS 106/6.0) and (MATH 120/6.0 or MATH 121/6.0).

PHYS 212/3.0 Vibrations and Waves

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.

LEARNING HOURS 120 (24L;24T;72P)

PREREQUISITE PHYS 206/3.0.

PHYS 213/3.0 Computational Methods in Physics

Computing environments, algorithms, techniques and programming for solving physics problems. Numerical methods. Code development. Possible topics to be covered include numerical differentiation and integration, root finding and optimization problems, solution of linear systems of equations, Monte Carlo simulation, and symbolic computation.

LEARNING HOURS 120 (24L;24T;72P)

EQUIVALENCY *PHYS 313/3.0.*

PREREQUISITE (PHYS 104/6.0 or PHYS 106/6.0) and (MATH 120/6.0 or MATH 121/6.0).

EXCLUSION No more than 3.0 units in CISC 271/3.0; MATH 272/3.0, PHYS 213/3.0; *PHYS 313/3.0.*

PHYS 216/3.0 Introduction to Astrophysics

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.

PREREQUISITE (PHYS 104/6.0 or PHYS 106/6.0) and (MATH 120/6.0 or MATH 121/6.0), or permission of the Department.

PHYS 239/3.0 Electromagnetism

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.

PREREQUISITE (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

Evidence for relativistic effects. Kinematics and dynamics in special relativity, space time diagrams, applications. Evidence for quanta, spectra, Bohr atom. Introduction to the Schrodinger 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

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.

LEARNING HOURS 132 (24L;36Lb;72P)

PREREQUISITE PHYS 104/6.0 or PHYS 106/6.0.

PHYS 260/3.0 The Physics of Light and Colour

Students will develop an appreciation for the physical and chemical processes that control light and colours. Students will learn the basic principles of light emission and propagation, image formation, the workings of optical devices and detectors, colour theory and colour perception, colour in art, colour in nature, and colours in astronomy.

LEARNING HOURS 108 (36L;72P)

PREREQUISITE PHYS 104/6.0 or PHYS 106/6.0 or PHYS 117/6.0 or PHYS 118/6.0 or BIOL 102/3.0 or BIOL 103/3.0 or CHEM 112/6.0 or GEOL 102/3.0 or GEOL 104/3.0 or GEOL 106/3.0 or GEOL 107/3.0 or PSYC 100/6.0.

PHYS 315/3.0 Physical Processes in Astrophysics

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 observing project will be carried out during the term.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE PHYS 216/3.0 and PHYS 242/3.0, or permission of the Department.

PHYS 316/3.0 Methods in Mathematical Physics I

Methods of mathematics important for physicists. Complex arithmetic, series expansions and approximations of functions, Fourier series and transforms, vector spaces and eigenvalue problems, ordinary differential equations and Green's functions.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE (MATH 221/3.0 or MATH 280/3.0 or *MATH 227/3.0*) and (MATH 225/3.0 or MATH 231/3.0 or *MATH 232/3.0*).

EXCLUSION No more than 1 course from MATH 334/3.0; MATH 338/3.0; PHYS 316/3.0; *PHYS 312/6.0*.

PHYS 317/3.0 Methods in Mathematical Physics II

A continuation of PHYS 316/3.0. Partial differential equations, functions of a complex variable and contour integration, and special topics such as probability and statistics, group theory and non-linear dynamics.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE PHYS 316/3.0.

EXCLUSION No more than 1 course from MATH 228/3.0; MATH 326/3.0; PHYS 317/3.0; *PHYS 312/6.0*.

EXCLUSION No more than 1 course from MATH 338/3.0; PHYS 317/3.0; *PHYS 312/6.0*.

PHYS 321/3.0 Advanced Mechanics

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.

PREREQUISITE PHYS 212/3.0 and (MATH 221/3.0 or MATH 227/3.0 or MATH 280/3.0) and (MATH 225/3.0 or MATH 231/3.0 or *MATH 232/3.0*).

PHYS 334/3.0 Electronics for Physicists

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.

LEARNING HOURS 132 (36L;36Lb;12T;48P)

PREREQUISITE PHYS 239/3.0.

PHYS 344/3.0 Introduction to Quantum Mechanics

Matter waves. Postulates of wave mechanics. Stationary states and one-dimensional potentials. Particle tunneling and scattering states. Introduction to matrix mechanics and Dirac notation. Quantized angular momentum, and the H atom.

NOTE Annual access fee for TopHat covers both PHYS 344/3.0 and PHYS 345/3.0.

EQUIVALENCY *PHYS 343/3.0*.

PREREQUISITE PHYS 212/3.0 and PHYS 242/3.0 and (MATH 221/3.0 or MATH 280/3.0) and (MATH 225/3.0 or MATH 231/3.0 or *MATH 232/3.0*).

PHYS 345/3.0 Quantum Physics of Atoms, Nuclei and Particles

Spin. Addition of angular momentum. Many electron atoms and the periodic table. Introduction to perturbation theory and Fermi's golden rule. Time dependent perturbations, including stimulated emission. Introduction to nuclear and particle physics.

NOTE Annual access fee for TopHat covers both PHYS 344/3.0 and PHYS 345/3.0.

PREREQUISITE PHYS 344/3.0.

PHYS 350/6.0 General Laboratory

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.

LEARNING HOURS 222 (72Lb;60;144P)

PREREQUISITE PHYS 239/3.0 and PHYS 242/3.0 and PHYS 250/3.0.

PHYS 372/3.0 Thermodynamics

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.

PHYS 414/3.0 Introduction to General Relativity

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.

PREREQUISITE PHYS 321/3.0 and (MATH 334/3.0 or PHYS 317/3.0 or *PHYS 312/6.0*).

PHYS 432/3.0 Electromagnetic Theory

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.

PREREQUISITE PHYS 239/3.0 and (MATH 221/3.0 or MATH 280/3.0) and (MATH 225/3.0 or MATH 231/3.0 or *MATH 232/3.0*).

PHYS 435/3.0 Stellar Structure and Evolution

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

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.

PHYS 453/3.0 Advanced Physics Laboratory

Advanced physics laboratory course providing students with experience in a range of experimental techniques and analysis. A selection of experiments are performed from fields including nuclear physics, applied physics, fluid mechanics, solid state physics, low-temperature physics and optics.

LEARNING HOURS 132 (76Lb;60P)

PREREQUISITE PHYS 350/3.0 and (PHYS 344/3.0 or CHEM 313/3.0).

PHYS 454/3.0 Advanced Physics Design Project

Groups of students in physics and engineering physics undertake a large design project of their choice that reflects and further develops their knowledge of physics. The students then build a prototype of their design to demonstrate the feasibility of the project within the design constraints.

LEARNING HOURS 132 (72L;60P)

PREREQUISITE PHYS 350/3.0.

PHYS 460/3.0 Laser Optics

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.

PREREQUISITE PHYS 239/3.0 and (PHYS 344/3.0 or CHEM 313/3.0).

COREQUISITE PHYS 432/3.0.

PHYS 472/3.0 Statistical Mechanics

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.

PREREQUISITE (PHYS 213/3.0 or *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

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.

PREREQUISITE PHYS 345/3.0 or CHEM 313/3.0.

PHYS 483/3.0 Nanoscience and Nanotechnology

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.

PREREQUISITE (PHYS 345/3.0 or CHEM 313/3.0) and (PHYS 480/3.0) or permission of the Department.

PHYS 490/3.0 Nuclear and Particle Physics

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.

PHYS 491/3.0 Physics of Nuclear Reactors

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.

NOTE Manual: estimated cost \$15 to \$25 per manual.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE Level 3 or 4 in a PHYS, ASPH or MAPH Plan.

PHYS 495/3.0 Introduction to Medical Physics

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.

PREREQUISITE Level 3 or 4 and registration in an ASPH, MAPH, or PHYS Plan.

PHYS 590/6.0 Research Thesis

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.

PREREQUISITE Level 4 in a PHYS, ASPH or MAPH Plan.

POLS 101/3.0 Contemporary Issues in Politics

An examination of current political issues. By examining an issue or problem students will be exposed to political institutions, processes and concepts in political science. The subject matter will change depending on the instructor and current political events.

NOTE This course does not lead to further courses in Political Studies. Not available for credit towards any POLS Plan.

LEARNING HOURS 120 (24L;12T;12Oc;72P)

POLS 110/6.0 Introduction to Politics and Government

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.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

POLS 211/3.0 Canadian Government

An examination of the institutions and constitutional foundations of government and politics in Canada. Offered annually.

PREREQUISITE POLS 110/6.0.

POLS 212/3.0 Canadian Politics

An analysis of the processes, groups, parties, voters, and culture of Canadian politics. Offered annually.

LEARNING HOURS 130 (10L;30T;40G;10I;20Oc;20P)

PREREQUISITE POLS 110/6.0.

POLS 230/3.0 American Elections

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.

PREREQUISITE POLS 110/6.0.

POLS 241/3.0 Comparative Politics: Transformations

An examination of how and why societies change and the context in which transformation occurs. Offered annually.

PREREQUISITE POLS 110/6.0.

POLS 242/3.0 Comparative Politics: Contemporary Regimes

The nature of political regimes in advanced industrial countries and the developing world. Offered annually.

PREREQUISITE POLS 110/6.0.

POLS 243/3.0 States, Ethnic Diversity, and Conflict

A comparative examination of the ways in which selected polities respond to national, ethnic, linguistic, religious, and racial diversity.

PREREQUISITE POLS 110/6.0.

POLS 244/3.0 Comparative Politics: Democracy and Democratization

A comparative exploration of the apparent disjuncture between the normative assumptions of liberal democratic theory and the realities of democracy-building.

PREREQUISITE POLS 110/6.0.

POLS 250/6.0 Political Theory

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.

PREREQUISITE POLS 110/6.0.

POLS 251/3.0 Political Ideologies

This course introduces students to a range of contemporary ideologies, such as liberalism, socialism, conservatism, 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.

PREREQUISITE POLS 110/6.0.

POLS 261/3.0 International Politics

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.

POLS 262/3.0 International Political Economy

An introduction to the major issues in the study of international political economy, including transnationalism, integration, globalization, and underdevelopment.

LEARNING HOURS 118 (24L;10T;84P)

PREREQUISITE POLS 110/6.0.

POLS 263/3.0 Introduction to International Security

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.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

PREREQUISITE POLS 110/6.0.

POLS 264/3.0 World Politics in Historical Perspective

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.

POLS 280/3.0 Introduction to Women, Gender and Politics

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.

POLS 310/3.0 Principles of the Canadian Constitution

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 312/3.0 Political Behaviour

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 313/3.0 Mass Media and Politics in Canada

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 317/3.0 Charter Politics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 318/3.0 The Canadian Welfare State

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

EXCLUSION No more than 6.0 units from GNDS 421/6.0; POLS 318/3.0; POLS 382/3.0.

POLS 319/3.0 Public Discourse in Canada: Issues and Debates

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 320/3.0 First Nations Politics

An examination of First Nations politics in a Canadian context, including aboriginal self-government.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 327/3.0 Topics in Comparative Politics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 328/3.0 Topics in European Politics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 329/3.0 European Politics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 331/3.0 American Government

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 332/3.0 Post-Communist Politics

The politics of the Russian Federation and selected countries of Central and Eastern Europe.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 335/3.0 **Topics in British Politics**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 336/3.0 **British Politics**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 338/3.0 **European Integration**

An examination of the European union and the forces towards integration: origin, politics and future.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 341/3.0 **Chinese Politics**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 342/3.0 **Latin American Politics**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 346/3.0 **Development Theory**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), 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**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 348/3.0 Middle East Politics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 351/3.0 Liberal Theory

An examination of the major theories and critiques of liberalism, focusing on the rival 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 communitarians, feminists, Marxists, and others.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), 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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), 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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), 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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 355/3.0 Issues in Contemporary Political Theory

This course discusses important contemporary issues that arise in political theory. Examples include: liberty and paternalism, toleration, punishment, multiculturalism, climate change, intergenerational justice (or injustice) and violence.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

EXCLUSION No more than 3.0 units from POLS 355/3.0; POLS 394/3.0 (Fall 2015).

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 359/3.0 Issues in Political Theory

The course will focus on central issues that arise in political theory: citizens' relation to the state and to each other. Specifically, the course will discuss problems of liberty, toleration, punishment, and multiculturalism; and inter-state problems such as global justice, just war, justice and the environment, and inter-generational justice.

LEARNING HOURS 120 (24L;12S;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 360/3.0 International Relations Theory

This course examines the theoretical approaches, concepts, and debates (e.g. levels of analysis, causality, methodology, historiography) that shape the evolution of International Relations as a discipline, including subfields (e.g. international security and international organizations) and how they relate to the conduct of international politics.

LEARNING HOURS 114 (36L;78P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), 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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), 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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), 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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 367/3.0 American Foreign Policy

An examination of American foreign policy, with particular emphasis on the analysis of concepts and issues and the study of decision-making processes.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 369/3.0 Canadian Foreign Policy

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 380/3.0 Puzzles in Political Economy

The course introduces students to the scientific method and its application to various puzzles in Canadian and comparative political economy. Following a primer on research methods, several empirical and theoretical puzzles are examined (e.g. relationships between voting and economic interests, the origins and drivers of government taxation, etc.).

LEARNING HOURS 120 (36L;120;72P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 382/3.0 Gender and Social Policy

This course explores feminist questions about the role of social policy in alleviating gender inequalities. Through an intersectional analysis of gender, race and class, this course examines how social policies address poverty, un/employment, immigration and colonialism. Each student will explore one Canadian social policy in detail.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

EXCLUSION No more than 6.0 units from GNDS 421/6.0; POLS 318/3.0; POLS 382/3.0.

POLS 383/3.0 Law and the Governmental Process

An examination of the role of law in politics, the differences between legal and political reasoning, the law and politics of constitution-making, and the political character of criminal and civil law. Topics include the victim's rights movement, pornography and censorship, and the role of litigation in political life.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 384/3.0 Strategies of Political Research

An exploration of major issues and schools of thought in the philosophy of social science and an examination of contemporary approaches to the study of politics.

NOTE This course is open to POLS majors and medials who have completed 1.0 100-level credit in Political Studies.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 385/3.0 Introduction to Statistics

An introduction to the analysis of data from real life situations. Covers study design, descriptive and inferential statistics. Topics include probability, t-tests, regression, Chi-square tests, analysis of variance. Emphasis is in the foundation of statistical inference and practical application of statistical methods using statistical software.

LEARNING HOURS 118 (24L;10T;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), 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 263/3.0; STAT 267/3.0; STAT 367/3.0.

POLS 386/3.0 Political Economy and Mass Media

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 387/3.0 Politics and Culture

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 388/3.0 Citizenship and Non-Citizenship

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 391/3.0 Introduction to Electoral Systems

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 392/3.0 Topics in Canadian Politics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 393/3.0 Topics in Comparative Politics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 394/3.0 Issues in Political Theory

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 395/3.0 Topics in International Political Economy

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 396/3.0 **Topics in International Relations**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 397/3.0 **Topics in Gender and Politics**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 398/9.0 **Introduction to International Law and Politics**

This course provides foundational knowledge about the relationship between international politics and international law. It then explores more specific aspects of international law, including international criminal law and the Law of Armed Conflict, and situates the central statutes, customs, and institutions of international law within the broader context of global governance.

NOTE Only offered at the Bader International Study Centre as part of the Field School in International Law and Politics.

LEARNING HOURS 348 (72L;36S;24G;24Oc;192P)

PREREQUISITE (12 units in POLS at the 200 level or above) and (a GPA of 2.0 on all units in POLS), or permission of the Department.

POLS 400/3.0 **Seminar in Political Science**

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.

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 401/3.0 **Political Theory: Questions & Challenges**

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 402/3.0 **Science and Justice**

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 403/3.0 **Gender Politics: Questions & Challenges**

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 404/3.0 Canadian Politics: Questions & Challenges

An examination of key issues in Canadian Politics. Topics will vary from year to year; consult the departmental website for further details.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 405/3.0 International Relations: Questions & Challenges

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 406/3.0 Comparative Politics: Questions & Challenges

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 410/3.0 Seminar in Canadian Politics

An examination of key issues in Canadian politics. Topics will vary from year to year; consult the departmental website for further details.

LEARNING HOURS 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 412/3.0 Provincial Politics

Content varies from year to year; consult the departmental website for further details.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 414/3.0 Politics in Quebec

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 415/3.0 Canadian Federalism

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 419/3.0 Political Communication

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 421/3.0 Elections

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 422/3.0 Public Opinion

This course provides an extensive survey of the principal theoretical perspectives and empirical debates in the study of public opinion.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 430/3.0 Seminar in Comparative Politics

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.

LEARNING HOURS 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 431/3.0 European Politics

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 432/3.0 The Modern Welfare State

An exploration of the emergence and functioning of the modern welfare state in comparative perspective.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 433/3.0 Problems of American Democracy

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 434/3.0 Multiculturalism

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 435/3.0 The Palestinian-Israeli Conflict

The course introduces students to some of the important questions about the Palestinian-Israeli conflict. What is the history of the conflict? How did distinct national identities emerge? What issues are at stake for the actors involved? How do domestic factors shape Palestinian-Israeli relations? Why have peacemaking efforts been unsuccessful?

LEARNING HOURS 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 439/3.0 American Politics

Focus varies from year to year depending on the research interests of the faculty members involved. See the departmental homepage for further details.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 440/3.0 The Politics of Ethnicity and Nationalism

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 442/3.0 Latin American Politics

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 443/3.0 Gender and Globalization

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 445/3.0 Dialectics of Development

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 450/3.0 Political Theory: Appeals to Human Nature

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 451/3.0 Seminar in Political Theory

An examination of key issues in political theory. Topics will vary from year to year; consult the departmental homepage.

LEARNING HOURS 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 453/3.0 Modern Political Philosophy

An examination of a particular problem or theme in Western political thought post-1500; issues covered might include property, revolution, sovereignty, republicanism, or gender.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 456/3.0 Theories of Identity Politics

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 457/3.0 Issues in Global Justice

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 458/3.0 Ethics of War and Intervention

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 460/3.0 International Relations of the Asia-Pacific

This IR seminar introduces students to major issues shaping the study and conduct of international politics in Southeast Asia, East Asia, and the Asia-Pacific. Seminar topics examine the involvement of major powers in the region, regional institutions and regimes, norms and identities, transnational crime, non-state actors, and natural disasters.

LEARNING HOURS 120 (30S;3T;3G;84P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 461/3.0 International Regimes

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 462/3.0 Studies in National Security

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 463/3.0 International Relations Theory

Critical examination of selected themes, issues and works in classical and contemporary international relations theory.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 464/3.0 Russian Foreign Policy

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 465/3.0 The Politics of War

A consideration of the main types of war theory, including descriptive, legal, normative, causal, process, and consequential, with applications to selected case studies.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 466/3.0 Politics of War in Africa

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 467/3.0 International Political Economy

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 468/3.0 The International Relations of the Middle East

This course analyzes Middle Eastern politics from the perspective of international relations. Themes covered include the evolution of various identities in the region, the role of outside actors in the Middle East, contemporary Middle Eastern state and social relations, and the role that Middle Eastern states play in contemporary world politics.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 469/3.0 Issues in Canadian Foreign Policy

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 470/3.0 Seminar in International Politics

The theoretical problems of analyzing foreign policy and the practical issues of diplomatic action.

LEARNING HOURS 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 471/3.0 Politics and Science in Technological Societies

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 482/3.0 Public Policy

An examination of key issues in the political economy of public policy. Topics will vary from year to year; consult the departmental homepage.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 483/3.0 Justice and Gender

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 484/3.0 The Politics of Globalization

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 485/3.0 Seminar in Gender and Politics

An examination of key issues in gender and politics. Topics will vary from year to year; consult the departmental homepage.

LEARNING HOURS 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 486/3.0 The Politics of Rights

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.

LEARNING HOURS (LECTURE) 120 (36L;84P)

LEARNING HOURS (SEMINAR) 120 (36S;12G;72P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

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.

LEARNING HOURS 240 (15I;225P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all 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.

LEARNING HOURS 120 (9I;111P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all 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.

LEARNING HOURS 120 (9I;111P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.5 on all units in POLS).

POLS 590/9.0 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 can choose to pay for binding of the departmental copy.

LEARNING HOURS 348 (24S;24Pc;24G;12I;48Oc;216P)

PREREQUISITE Level 4 and (registration in a POLS Major or Medial Plan) and POLS 250/6.0 and (a GPA of 2.9 on all units in POLS).

PORT 103/3.0 Beginning Portuguese and Culture I

Introduction to the language and culture of Portugal and Brazil, acquiring basic communicative skills, vocabulary, and structures of the Portuguese language. This course promotes knowledge and understanding of the social, cultural, and historical contexts of both countries.

LEARNING HOURS 120 (36L;84P)

EXCLUSION No more than 3.0 units from LLCU 101/3.0 (if taken between 2012-13 and 2014-15); PORT 103/3.0.

PORT 104/3.0 Beginning Portuguese and Culture II

Continuation of PORT 103/3.0. Basic communicative skills, vocabulary, and structures of the Portuguese language and the knowledge and understanding of the social, cultural, and historical contexts of Portugal and Brazil, and other Portuguese speaking countries.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE PORT 103/3.0 or LLCU 101/3.0 if taken between 2012-13 and 2014-15).

EXCLUSION No more than 3.0 units from LLCU 102/3.0 (if taken between 2012-13 and 2014-15); PORT 104/3.0.

PPEC 200/3.0**Introduction to the Study of Politics, Philosophy and Economics**

This course will emphasize the analysis of conceptual complementarities, the assessment of arguments, and the application of principles in factual contexts that are the focus of study within the disciplines of Politics, Philosophy and Economics.

LEARNING HOURS 120 (24L;12G;84P)

PREREQUISITE 12.0 units from ECON 110/6.0; POLS 110/6.0; PHIL at the 100-level.

PPEC 400/3.0**Research Seminar in Politics, Philosophy and Economics**

Politics, Philosophy and Economics approach problems from discipline specific perspectives, but the questions asked have fundamental similarities. In this course students will be exposed to research methods from all three different disciplines, while completing a research intensive project. Peer review and presentation skills will be emphasized.

LEARNING HOURS 120 (12L;12S;12G;84P)

PREREQUISITE Level 4 and registration in the PPEC Specialization Plan and a minimum Plan GPA of 2.60 and permission of the Department.

PSYC 100/6.0 Principles of Psychology

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 a weekly lecture and small-group learning lab.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 221 (24L;22Lb;100O;75P)

EXCLUSION No more than 1 course from PSYC 100/6.0; PSYC 101/3.0; PSYC 102/3.0; PSYC 103/3.0.

PSYC 101/3.0 Principles of Psychology I

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, health and clinical psychology.

NOTE Not offered at Queen's; only available as a transfer credit.

EXCLUSION No more than 1 course from PSYC 100/6.0; PSYC 1UNS/3.0; PSYC 101/3.0; PSYC 102/3.0; PSYC 103/3.0.

PSYC 102/3.0 Principles of Psychology II

An introductory survey of basic areas of psychology including history, methods, perception, cognition, learning and motivation and their biological substrata.

NOTE Not offered at Queen's; only available as a transfer credit.

EXCLUSION No more than 1 course from PSYC 100/6.0; PSYC 1UNS/3.0; PSYC 101/3.0; PSYC 102/3.0; PSYC 103/3.0.

PSYC 103/3.0 Principles of Psychology III

An introductory survey of basic areas of psychology including child development, individual differences, social psychology, health and clinical psychology.

NOTE Not offered at Queen's; only available as a transfer credit.

EXCLUSION No more than 1 course from PSYC 100/6.0; PSYC 1UNS/3.0; PSYC 101/3.0; PSYC 102/3.0; PSYC 103/3.0.

PSYC 202/3.0 Statistics in Psychology

An introduction to descriptive and inferential statistics in psychology. Topics will include descriptive statistics, probability, correlation and regression, experimental design and one-way ANOVA.

PREREQUISITE A grade of B- in PSYC 100/6.0 and (registration in a PSYC Major or Medial or Specialization 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 263/3.0; STAT 267/3.0; STAT 367/3.0; COMM 162/3.0.

PSYC 203/3.0 Research Methods in Psychology

Lectures will focus on basic research methodologies. Labs will include the collection and statistical analysis of data, and the reporting of experimental findings. To introduce students to the breadth of psychological research, there will be a series of guest lectures in which professors present their own research.

PREREQUISITE PSYC 202/3.0; 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; SOCY 211/3.0; STAT 263/3.0; STAT 267/3.0; STAT 367/3.0; COMM 162/3.0 and (registration in a PSYC Major or Medial or Specialization Plan).

EXCLUSION No more than 3.0 units from BMED 270/3.0; PSYC 203/3.0.

PSYC 204/3.0 Applications and Careers in the Psychological Sciences

This course explores how the psychological sciences are applied in practice, and identifies education and training paths required for work in the psychological sciences. Students will gain significant exposure to career and education planning considerations within the psychological sciences.

LEARNING HOURS 111 (24L;12G;30;72P)

PREREQUISITE PSYC 100/6.0.

PSYC 205/3.0 Introduction to Comparative Cognition

An overview of the evolution and function of cognitive processes. Emphasis will be placed on understanding how natural selection shaped cognition across animal species. Topics such as memory, decision making, cooperation, and communication will be examined from a behavioural ecology and experimental psychology perspective.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 118.5 (18L;16.5G;36O;48P)

PREREQUISITE PSYC 100/6.0.

EXCLUSION May not be taken with or after PSYC 355/3.0 (taken in 2015W or earlier).

PSYC 215/3.0 Sensation and Perception

The course introduces sensory information processing and perception as well as methods used to study the relationship between the physical energy that is sensed (e.g. light and sound) and the subjective experience of objects and events. Mechanisms underlying perception of touch, body position, taste, smell, hearing, and vision are covered.

LEARNING HOURS 120 (36L;9T;75P)

PREREQUISITE PSYC 100/6.0.

PSYC 221/3.0 Cognitive Psychology

An introduction to the empirical study of mental processes. Topics include perception and attention, working memory, long-term memory, visual imagery, problem-solving, language, and decision-making.

NOTE Also offered online. Consult Art and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Study Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE PSYC 100/6.0.

EXCLUSION No more than 6.0 units from *COGS 200/6.0*; *COGS 201/3.0*; *PSYC 220/6.0*; *PSYC 221/3.0*.

PSYC 231/3.0 The Study of Personality

An examination of the major theoretical approaches to the study of personality with attention to the utility of these theories as measured by empirical investigations.

PREREQUISITE PSYC 100/6.0.

PSYC 235/6.0 Abnormal Psychology

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 Only offered online. Consult Arts and Science Online.

LEARNING HOURS 240 (72L;24O;144P)

EQUIVALENCY PSYC 236/3.0.

PREREQUISITE PSYC 100/6.0.

PSYC 236/3.0 Introduction to Clinical Psychology

The experimental approach to understanding the causes, symptoms, course, and treatment of mental illness is emphasized in the analysis of disorders of cognition (e.g., schizophrenia), and problem behaviours (e.g., addictions, sexual disorders).

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;12O;72P)

EQUIVALENCY PSYC 235/6.0.

PREREQUISITE PSYC 100/6.0.

PSYC 241/3.0 Social Psychology

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 online. Consult Arts and Science Online.

PREREQUISITE PSYC 100/6.0.

PSYC 251/3.0 Developmental Psychology

Introduction to the scientific study of human development, as well as the fundamental theories, methods and applications in the field of developmental psychology. A major focus of this course is the social, cognitive, and neurobiological processes that underlie perceptual, cognitive, and emotional development from conception to adolescence.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (12L;18T;36O;48P)

PREREQUISITE PSYC 100/6.0.

PSYC 271/3.0 Brain and Behaviour I

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 online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE PSYC 100/6.0.

ONE-WAY EXCLUSION May not be taken with or after NSCI 323/3.0; NSCI 324/3.0; PSYC 370/3.0.

PSYC 301/3.0 Advanced Statistical Inference

Statistical inference (continuation of PSYC 202/PSYC 203) and laboratory projects. The course covers critical thinking about research and statistics and three types of statistical analyses: tests of categorization, comparisons of means, and association.

NOTE Enrollment is limited. Restricted to students in a PSYC Major Plan.

LEARNING HOURS 120 (36L;36Lb;12G;12O;24P)

PREREQUISITE [A minimum GPA of 1.90 in (PSYC 202/3.0 or STAT_Options) and PSYC 203/3.0] and (a minimum GPA of 2.60 in PSYC at the 100 and 200 level) and (registration in a PSYC Major Plan).

EXCLUSION No more than 6.0 units from *PSYC 300/6.0*; PSYC 301/3.0; PSYC 302/3.0.

EQUIVALENCY *PSYC 300/6.0*.

PSYC 302/3.0 Advanced Research Methods

The application of previous statistical and methodological courses (continuation of PSYC 202/PSYC 203/PSYC 301) toward the design, execution, analysis, and communication of a research project. Lectures and laboratories cover data collection, data management, some advanced statistical analyses, and communication skills.

NOTE Enrollment is limited. Restricted to students in a PSYC Major Plan. Required for admission to PSYC 501/9.0.

LEARNING HOURS 120 (36L;36Lb;12G;12O;24P)

PREREQUISITE A minimum grade of C in PSYC 301/3.0 and registration in a PSYC Major Plan.

EXCLUSION No more than 6.0 units from *PSYC 300/6.0*; PSYC 301/3.0; PSYC 302/3.0.

EQUIVALENCY *PSYC 300/6.0*.

PSYC 315/3.0 Introduction to the Analysis of Psychological Signals

The objective of this course is to (1) introduce the student to basic techniques for the quantitative analysis of time-varying signals and (2) teach the student how to apply these techniques using MATLAB. Emphasis will be placed on methods appropriate to the psychological research environment.

NOTE Expertise in MATLAB or signal processing is not required.

LEARNING HOURS 120 (18L;36Lb;66P)

PREREQUISITE PSYC 203/3.0.

EXCLUSION No more than 3.0 units from PSYC 315/3.0; PSYC 495/3.0 (2012-2016).

PSYC 321/3.0 Psycholinguistics

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).

PREREQUISITE PSYC 221/3.0 and [PSYC 203/3.0 or (Level 3 or above and registration in a LING Plan and a grade of B- in PSYC 100/6.0)].

PSYC 323/3.0 Laboratory in Attention

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, inattention blindness, eye-tracking, multi-object tracking, and functional imaging.

PREREQUISITE (PSYC 203/3.0 and [PSYC 221/3.0 or *PSYC 220/6.0*]) or *COGS 200/6.0*.

PSYC 332/3.0 Health Psychology

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.

PREREQUISITE (PSYC 235/6.0 or PSYC 236/3.0) and (PSYC 202/3.0 or 3.0 units from STAT_Options).

PSYC 333/3.0 Human Sexuality

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE PSYC 235/6.0 or PSYC 236/3.0 or PSYC 251/3.0 or PSYC 271/3.0 or PSYC 370/3.0.

PSYC 334/3.0 Laboratory in Psychological Testing

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.

LEARNING HOURS 120 (24L;24Lb;12G;60P)

PREREQUISITE PSYC 301/3.0 or *PSYC 300/6.0*.

PSYC 335/3.0 Positive Psychology

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.

PREREQUISITE PSYC 203/3.0 and (PSYC 235/6.0 or PSYC 236/3.0).

PSYC 341/3.0 Laboratory in Social Psychology

This course aims to provide students with hands-on experience in social psychology research. Students will learn principles of research methods in social psychology, involving literature review, research designs, data collection/management/analysis, and report.

LEARNING HOURS 120 (18L;18Lb;12Oc;72P)

PREREQUISITE PSYC 203/3.0 and PSYC 241/3.0.

EXCLUSION No more than 3.0 units from PSYC 341/3.0; PSYC 399/3.0 (2017)

PSYC 342/3.0 The Psychology of Social Influence

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.

NOTE Also offered at the Bader International Study Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE PSYC 100/6.0.

PSYC 350/3.0 Selected Topics in Developmental Psychology

Lecture courses on selected topics in the area of developmental psychology offered periodically.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE PSYC 203/3.0 and PSYC 251/3.0.

EXCLUSION No more than 3.0 units from PSYC 350/3.0; PSYC 353/3.0; *PSYC 457/3.0*.

PSYC 351/3.0 Social and Emotional Development

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE PSYC 251/3.0.

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.

PREREQUISITE (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 353/3.0 Atypical Development

This course will begin by defining atypical development and discuss how gaining better understanding of atypical development allows us to understand typical development, and vice versa. We will cover six disorders in greater detail: Language Disorders, Dyslexia, Down Syndrome, Williams Syndrome, Attention-Deficit/Hyperactivity Disorder and Autism.

LEARNING HOURS 127 (36L;91P)

EQUIVALENCY PSYC 457/3.0.

PREREQUISITE PSYC 203/3.0 and PSYC 251/3.0.

EXCLUSION No more than 3.0 units from PSYC 353/3.0; PSYC 350/3.0 (2015-16; 2016-17).

PSYC 355/3.0 Comparative Cognition: Cognitive Origins Laboratory

Advanced study in comparative cognition with a focus on the evolution and function of cognitive processes across animal species. Through lectures, laboratory activities, and readings, theory and research methodology in the areas of number, timing, casual reasoning, social learning, tool use, social cognition, and communication will be discussed.

LEARNING HOURS 120 (18L;18Lb;12O;72P)

PREREQUISITE [PSYC 203/3.0 and (PSYC 205/3.0 taken in Fall 2015 or onward) or (Level and registration in a BCHM, BIOL, or LISC Plan).

PSYC 360/3.0 The Neurobiology and Psychology of Sleep

The course will introduce students to: the physiology and neurobiology of sleep; methodology of sleep research; evolution and comparative aspects of sleep; discussion of potential functions of sleep; overview of sleep disorders.

NOTE Students will spend two full nights in the Sleep Laboratory.

LEARNING HOURS 126 (18L;36Lb;12O:60P)

PREREQUISITE PSYC 203/3.0 and PSYC 271/3.0.

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.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

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.

LEARNING HOURS 120 (36L;36Lb;48P)

PREREQUISITE PSYC 271/3.0 and PSYC 370/3.0.

PSYC 375/3.0 Comparative Cognition: Animal Learning Laboratory

This course covers recent research in comparative cognition at an advanced level. Emphasis will be placed on critically evaluating scientific controversies in specific topics, such as episodic memory in animals, mechanisms of spatial navigation, and value-based decision-making. Laboratory sessions will explore the principles discussed in lectures.

LEARNING HOURS 126 (18L;18Lb;12O;78P)

PREREQUISITE [PSYC 203/3.0 and (PSYC 205/3.0 if taken in Fall 2015 or onward)] or (Level 3 and registration in a BCHM, BIOL, or LISC Plan).

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 behavior. Information processing will be traced from sensory structures through to motor output and communicative behaviour. The course will introduce you to psychophysical and neurophysical methodology and will contain many demonstrations and hands-on experiments.

PREREQUISITE PSYC 203/3.0 and PSYC 215/3.0.

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.

NOTE Also offered online. Consult Arts and Science Online.

NOTE Also offered at the Bader International Study Centre, Herstmonceux.

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.

EXCLUSION No more than 3.0 units from ECON 443/3.0 (Topic: Behavioural Neuroeconomics) and PSYC 398/3.0 (Topic: Behavioural Neuroeconomics).

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 400/6.0 Applied Research in Higher Education

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.

LEARNING HOURS 221 (24S;24G;78Pc;20O;75P)

PREREQUISITE Level 3 or above in a PSYC Major, Medial, or Specialization 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.

PREREQUISITE PSYC 203/3.0 and PSYC 241/3.0.

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.

PREREQUISITE PSYC 203/3.0 and (PSYC 235/6.0 or PSYC 236/3.0).

PSYC 435/3.0 Advanced Topics in Abnormal Psychology

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.

PSYC 436/3.0 Sexuality and Gender

This course provides an overview of the main theoretical perspectives on gender differences and similarities in sexuality, and examines how differences and similarities manifest in multiple domains, including sexual attitudes and behaviours, sexual motivation, mating strategies, sexual orientation, sexual psychophysiology, atypical sexuality, and sexual functioning.

LEARNING HOURS 126 (12L;24S;90P)

PREREQUISITE PSYC 203/3.0 and (PSYC 235/6.0 or PSYC 236/3.0 or PSYC 333/3.0 or BIOL 369/3.0)

PSYC 437/3.0 Mood Disorders

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.

LEARNING HOURS 120 (18L;18S;84P)

PREREQUISITE PSYC 203/3.0 and (PSYC 235/6.0 or PSYC 236/3.0).

PSYC 440/3.0 Advanced Topics in Social Psychology

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

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.

LEARNING HOURS 120 (24L;12S;84P)

PREREQUISITE PSYC 203/3.0 and PSYC 241/3.0.

PSYC 442/3.0 Culture and Cognition

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.

LEARNING HOURS 114 (12L;24S;78P)

PREREQUISITE PSYC 203/3.0 and PSYC 241/3.0.

PSYC 443/3.0 Intimate Relationships

Classic and contemporary research pertaining to adult romantic relationships. Topics include attachment styles, relationship development, communication, and conflict in relationships.

LEARNING HOURS 126 (18L;18S;90P)

PREREQUISITE PSYC 203/3.0 and PSYC 241/3.0.

PSYC 450/3.0 Advanced Topics in Developmental Psychology

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.

LEARNING HOURS 128 (18L;18S;25G;15O;52P)

PSYC 452/3.0 Developmental Psycholinguistics

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.

PREREQUISITE (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

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.

PREREQUISITE PSYC 203/3.0 and PSYC 251/3.0.

PSYC 455/3.0 Adolescence

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.

PREREQUISITE PSYC 203/3.0 and PSYC 251/3.0.

PSYC 456/3.0 Theory of Mind

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.

PREREQUISITE PSYC 203/3.0 and PSYC 251/3.0.

PSYC 470/3.0 Advanced Topics in Behavioural Neuroscience

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.

PREREQUISITE PSYC 205/3.0 and PSYC 271/3.0 and PSYC 370/3.0.

PSYC 471/3.0 Behavioural Pharmacology

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE 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

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.

PREREQUISITE PSYC 271/3.0 and (PSYC 370/3.0).

PSYC 480/3.0 Special Topics in Psychology I

Seminar courses on advanced topics in psychology offered periodically by visiting professors.

NOTE Prerequisites vary depending on specific course content; consult instructor or Undergraduate Office in the Psychology Department.

LEARNING HOURS 120 (6L;30S;84P)

PSYC 485/3.0 Special Topics in Psychology II

Seminar courses on advanced topics in psychology offered periodically by visiting professors.

NOTE Prerequisites vary depending on specific course content; consult instructor or Undergraduate Office in the Psychology Department.

LEARNING HOURS 120 (36S;84P)

PSYC 495/3.0 Advanced Topic in Psychology

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.

LEARNING HOURS 120 (12L;24S;84P)

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. This course is optional for students completing a major in psychology but all students are advised that admission to a graduate research 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 complete the Introductory Animal Care Course and if required the appropriate Animal Use workshops through the Office of the University Veterinarian.

LEARNING HOURS 365 (9S;6T;350P)

PREREQUISITE (A grade of C+ in PSYC 302/3.0 or *PSYC 300/6.0*) and (a GPA of 2.60 in PSYC 202/3.0; PSYC 203/3.0; PSYC 301/3.0; PSYC 302/3.0 or *PSYC 300/6.0*) and a GPA of 3.30 in PSYC and permission of Department.

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 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 501/9.0 concurrently will not normally take one of these courses with their thesis supervisor.)

LEARNING HOURS 117 (20G;13I;84P)

PREREQUISITE Permission of the instructor and of the Chair of Undergraduate Studies and Level 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 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 501/9.0 concurrently will not normally take one of these courses with their thesis supervisor.)

LEARNING HOURS 117 (20G;13I;84P)

PREREQUISITE Permission of the instructor and of the Chair of Undergraduate Studies and Level 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 complete the Introductory Animal Care Course and if required the appropriate Animal Use workshops through the Office of the University Veterinarian.

NOTE Students are limited to a maximum of two of PSYC 550/3.0, PSYC 555/3.0, 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 501/9.0 concurrently will not normally take one of these courses with their thesis supervisor.)

LEARNING HOURS 117 (78Lb;39P)

PREREQUISITE Permission of the instructor and of the Chair of Undergraduate Studies and Level 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 complete the Introductory Animal Care Course and if required the appropriate Animal Use workshops through the Office of the University Veterinarian.

NOTE Students are limited to a maximum of two of PSYC 550/3.0, PSYC 555/3.0, 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 501/9.0 concurrently will not normally take one of these courses with their thesis supervisor.)

LEARNING HOURS 117 (78Lb;39P)

PREREQUISITE Permission of the instructor and of the Chair of Undergraduate Studies and Level 3 or above and registration in a PSYC Major, Medial or Specialization Plan.

RELS 131/6.0**World Religions/Religious Worlds**

Introduces religion in India, China and Japan; also the movements of Judaism, Christianity, Islam and Humanism.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 228 (48L;24T;156P)

RELS 161/6.0**Contemporary Problems in Religion and Culture**

Explores religious issues in culture, literature, politics and social ethics.

LEARNING HOURS 228 (48L;24T;156P)

RELS 162/3.0**Religion, News and Media**

This course will identify and describe characteristics of religion as they appear in news reports of social, political, and economic aspects of public life and analyze how the news presents, shapes, and creates perceptions of religion in public discourse.

LEARNING HOURS 120 (24L;12T;84P)

RELS 163/3.0**Religion and Popular Culture**

This course will identify and describe characteristics of religion as they appear in popular culture (e.g. fashion; comics; movies; art; music; novels; sitcoms; dramas; video games) and analyze how such depictions present, shape, and create perceptions of religion in public discourse.

LEARNING HOURS 120 (24L;12T;84P)

RELS 201/3.0**Themes in Religious Studies**

A topic of current interest in Religious Studies not covered in other available courses.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100-level in RELS.

RELS 202/3.0**Traditions in Religious Studies**

A topic of current interest in Religious Studies not covered in other available courses.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100-level in RELS.

RELS 210/3.0**Hebrew Bible**

Introduction in the light of the political, cultural, and religious history of ancient Israel and Judah.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 212/3.0**Mythology of the Ancient Near East**

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 214/3.0**The New Testament**

As religious literature expressing the witness to Jesus; and as source for the history, trends and problems of early Christianity.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 218/3.0**Christianity**

Introduction to Christianity as a religious tradition through its texts, its history and its contemporary forms.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 222/3.0**The Hindu World**

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).

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 223/3.0 Buddhism

Buddhism in India, the life and teaching of Gautama the Buddha, and the growth of the Theravadin and Mahayanist traditions.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 224/3.0 Taoism

The philosophy, worldview, spirituality and ethics of Taoism, China's organized indigenous religion, in Chinese history and in the contemporary world.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 226/3.0 Islam

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 227/3.0 Indigenous Traditions in North America

Introduction to the study of Indigenous traditions in North America.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 228/3.0 Sages, Scholars and Rabbis

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 229/3.0 Confucianism

The philosophy, worldview, spirituality and ethics of Confucianism in its classical, modern and contemporary forms.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 234/3.0 Judaism

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 235/3.0 Religion and Environment

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 236/3.0 Religion and Sex

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.

LEARNING HOURS 126 (30L;6T;12G;6O;72P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 237/3.0 Religion and Film

How religion is portrayed in film; particularly the depiction of religious belief, practices, practitioners, and institutions, and the use of religious symbols and metaphors.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 239/3.0 Religion and Sport

This course will provide an overview of the relatively new and expanding body of research that examines the relationship between sport, spirituality and religion. Topics including play, games, flow, ritual, prayer, sports stars as role models, doping, fandom and miracles in sport will be explored.

LEARNING HOURS 129 (36L;93P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 240/3.0 Magic, Witchcraft, and the Supernatural

Studies the differences between the categories of religion, magic, witchcraft, the supernatural, etc., as constructed in scholarship, popular culture, and practice. Focuses on examples such as New Religious Movements, depictions of magic in film and TV, and moral panics over alleged occult practices, and the histories that let us make sense of them.

LEARNING HOURS 120 (24L;6G;12O;78P)

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

Their place in religious consciousness with a variety of examples.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 252/3.0 Mysticism

The academic study of mysticism; mystical movements; and mystics.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 255/3.0 Research Methods in Religious Studies

An investigation into the techniques of critical reading and writing for research in Religious Studies.

LEARNING HOURS 120 (36S;84P)

EQUIVALENCY *RELS 355/3.0.*

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 266/3.0 Religion and Social Ethics

Moral problems and religious responses: e.g., sexual morality; violence; civil disobedience.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 268/3.0 Religion and Biomedical Ethics

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 2 or above or 6.0 units at the 100 level in RELS.

RELS 301/3.0 Themes in Religious Studies

A topic of current interest in Religious Studies not covered in other available courses.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 302/3.0 Traditions in Religious Studies

A topic of current interest in Religious Studies not covered in other available courses.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 310/3.0 Modern and Contemporary Christian Thought

Exemplary work in recent and contemporary Christian theology.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 311/3.0 **Jesus: The Continuing Historical Quest**

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.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 312/3.0 **Christian Feminist Theology**

Issues raised by the feminist critique of traditional Christian theology and feminist attempts at theological reconstruction.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 321/3.0 **Greek and Roman Religions**

A study of the development and organization of non-civic religious associations in the Greek and Roman empires using inscriptions, papyri, and literary texts. Insight into religious practices of the Greco-Roman period comes through exploration of groups organized by deity, cult, occupation, or ethnic identity, and the so-called mystery religions.

LEARNING HOURS 132 (36L;96P)

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**

Surveys the history and philosophy of yoga in India and the West.

NOTE Yoga practicum: estimated cost \$85.

LEARNING HOURS 128 (36L;80c;84P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 326/3.0 **Religion and Politics in Muslim Societies**

Explores the role of religion in the politics of Muslim societies with particular attention to the modern period.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 328/3.0 **Interpretation of Apocalyptic Literature**

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.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 331/3.0 **Religion and Violence**

Links between violence and religious beliefs, practices and institutions; for example, sacrifice, holy wars, scapegoating, and suicide.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 334/3.0 **Jewish Views of the Other**

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.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 340/3.0 **Religion and Democracy**

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.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 341/3.0 Spirituality, Secularity, and Nonreligion

A study of concepts intended to summarize positions which are necessarily defined in reference to religion but considered to be other than religious. We explore the origins and presents of perspectives and experiences including the secular, spiritual-but-not-religious, atheistic, and other forms of imitation, indifference, and hostility to religion.

LEARNING HOURS 126 (24L;6G;12O;84P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 345/3.0 Religion and Art

An examination of discursive, historiographical, and affective aspects of a variety of historical and contemporary artistic expressions (e.g., painting, sculpture, video) through the lens of Religious Studies.

NOTE Field trip: estimated cost \$38.

LEARNING HOURS 126 (12L;24G;90P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 354/3.0 Theory in Religious Studies

An introduction to major theoretical approaches to the study of religion.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 3 and 6.0 units at the 200 level in RELS.

EXCLUSION No more than 6.0 units from RELS 255/3.0; RELS 354/3.0; *RELS 353/6.0*; *RELS 355/3.0*.

RELS 368/3.0 Religion and Business Ethics

Students will develop background knowledge and analytic skills necessary to identify and negotiate religious commitments in business relationships and resolve ethical issues around the role of religion in business contexts. We will analyze case studies to explore various ways in which business practitioners can and do address questions arising in everyday interactions in the business world.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 393/3.0 Buddhism in the Modern World

Encounter between Buddhism and the West, major movements and thinkers, and socio-politically engaged Buddhism.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 394/3.0 Religion and Politics in Contemporary China

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.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 396/3.0 Islam in the Modern World

Exploration of Islamic developments since the 19th century: major thinkers, trends of thought, and contemporary movements as responses to modernity.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 398/3.0 Judaism in the Modern Age

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.

LEARNING HOURS 132 (36L;96P)

PREREQUISITE Level 3 or above or 6.0 units at the 100 level in RELS.

RELS 401/3.0 Honours Seminar

Advanced seminar providing detailed reading of one contemporary theme or thinker in religious studies.

LEARNING HOURS 120 (6L;30S;12O;72P)

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 354/3.0 and (RELS 255/3.0 or *RELS 355/3.0*)] or *RELS 353/6.0*.

RELS 452/3.0 The Contemporary Religious Situation

Religion in modernity; traditional groups, newer religious movements, contemporary ideologies and social trends of religious significance.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE Level 3 or 4 and registration in a RELS Major or Medial Plan.

COREQUISITE [RELS 354/3.0 and (RELS 255/3.0 or *RELS 355/3.0*)] or *RELS 353/6.0*.

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.

LEARNING HOURS 120 (12I;108P)

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.

SOCY 122/6.0 Introduction to Sociology

An introduction to the concepts, theories and methods of sociological enquiry, and their application to the analysis of Canadian society.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 240 (48L;24G;24O;144P)

SOCY 200/3.0 Sociology of Health and Illness

This course explores the sociological dimensions affecting the meaning and experience of health and illness in contemporary society. Topics include policy, professionalization, medicalization, mental health, inequalities, bioethics, and globalization.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0) or HLTH 101/3.0.

SOCY 210/3.0 Social Research Methods

Examination of relationship between sociological theory and methods of social research; topics include logic of research, hypothesis formulation, and variables and their operationalization.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

EXCLUSION No more than 3.0 units from BMED 270/3.0; GPHY 240/3.0; SOCY 210/3.0.

SOCY 211/3.0 Introduction to Statistics

Introduces descriptive and inferential statistics and data analysis strategies. Topics include probability, correlation/regression, experimental design and analysis of variance. Online learning and weekly laboratories provide practice in computation, interpretation and communication of statistical findings, and large class review sessions and individual drop in assistance ensure mastery. Applications appropriate to different fields of study will be explored.

NOTE Students can also fulfill the statistics requirements of a SOCY plan by taking any one of the courses listed as exclusions below in place of SOCY 211/3.0.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

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 263/3.0; STAT 267/3.0; STAT 367/3.0.

SOCY 225/3.0 Sociology of Globalization

An introduction to recent sociological debates on the emergence of a global economy and society, and its impact on different parts of the world.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 226/3.0 Central Concepts in Sociological Theory

A discussion of the central concepts in sociological theory, for example, agency and structure; rationality, reason, and abstraction; social continuity and social change; subjectivity and selfhood; language and interpretation are normally considered.

LEARNING HOURS 120 (24L;12T;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 227/3.0 Theorizing Contemporary Society

A discussion of theoretical frameworks for understanding contemporary societies. The course will normally cover capitalism and economy; globalization and post-colonialism; identity, politics, and social movements; science, technology, and environmentalism; consumerism and urban life.

LEARNING HOURS 120 (24L;12T;84P)

PREREQUISITE SOCY 226/3.0.

SOCY 235/3.0 Race and Racialization

Concept and meaning of race, racism, and racialization; ethnicity; processes, policies, and practices of differentiation; the impact of racism and discrimination on various populations; intersections of race, ethnicity, class and gender.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 273/3.0 Social Psychology

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 275/3.0 Theories of Deviance and Social Control

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

EXCLUSION No more than 6.0 units from SOCY 275/3.0; SOCY 276/3.0; *SOCY 274/6.0*.

SOCY 276/3.0 Substantive Issues in Social Deviance

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE SOCY 275/3.0.

EXCLUSION No more than 6.0 units from SOCY 275/3.0; SOCY 276/3.0; *SOCY 274/6.0*.

SOCY 284/3.0 Sociology of Information and Communication Technology

Social context and consequences of information and communication technologies as they relate to work, culture, privacy and education.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 300/3.0 Sociology of Cities

More than 50% of the world's population now lives in cities and most of the biggest sociological issues are urban in location and character. Understanding cities is therefore crucial to understanding contemporary societies. This course is an intensive introduction to Urban Sociology with particular emphasis on world cities.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

EXCLUSION No more than 3.0 units from SOCY 300; SOCY 301/3.0-001 (2009-2015).

SOCY 301/3.0 Selected Topics in Sociology

Explores a range of issues in contemporary sociology. Topics may vary from year to year. See the departmental website for further details.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 302/3.0 Selected Topics in Socio-legal Studies

Explores a range of contemporary issues in socio-legal studies. Topics may vary from year to year. See the departmental website for further details.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 303/3.0 Selected Topics in Feminist Sociology

Explores a range of contemporary issues in feminist sociology. Topics may vary from year to year. See the departmental website for further details.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 304/3.0 Selected Topics in Communications and Information Technology

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 305/3.0 Sociology of Professions and Occupations

This course examines theories and empirical studies on professions and occupations. This course examines historical change, social structure, market competition, career advancement, workplace interaction and culture, job satisfaction, demographic diversity and social service, from the late nineteenth century to the age of globalization.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

EXCLUSION No more than 3.0 units from SOCY 305/3.0; SOCY 303/3.0 (2016-17).

SOCY 306/3.0 Consumer Culture

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 309/3.0 Surveillance and Society

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 310/3.0 Visual Culture

A lecture-format course devoted to the sociological understanding of visual culture in contemporary society. The course integrates the critical development of key social theories of visuality from Descartes to Baudrillard and beyond. It addresses the sociological significance of visual culture in terms of ideology, hegemony and visual discourse.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

EXCLUSION No more than 3.0 units from SOCY 302/3.0-001; SOCY 310/3.0.

SOCY 321/3.0 Research Methodology

Evaluation and use of quantitative/qualitative research methodologies as a means of exploring the validity of sociological theories.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A minimum grade of C in each of SOCY 210/3.0 and SOCY 211/3.0 and (SOCY 226/3.0 and SOCY 227/3.0).

SOCY 336/3.0 The Sociology of Work and Technology

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 344/3.0 Power and Change in Canada

Critical study of Canada's socio-economic structures and processes: topics include dynamics of capitalist development, global restructuring, labour force transformations.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 352/3.0 Family Diversity

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 354/3.0 Sociology of Education

Comparative study of Canadian education system and processes in light of current sociological theory and research.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 362/3.0 Cultural Studies

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 363/3.0 Science, Technology and Society

Critical examination of science in modern society; particular reference to historical development, transmission of scientific knowledge, conduct of enquiry, and interdependence with other institutions.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0).

SOCY 384/3.0 Women and Reproductive Technology

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C- in SOCY 122/6.0 or (BISC 100/3.0 and BISC 101/3.0) or 6.0 units in GNDS.

SOCY 387/3.0 Sociology of Crime and Delinquency

Critical study of conceptual, empirical, and theoretical bases to sociological approaches to crime and delinquency; Canadian research emphasized.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE SOCY 275/3.0 or *SOCY 274/6.0*.

SOCY 388/3.0 Sociology of Criminal Justice

Comparative examination of criminal justice system and its major institutions; Canadian research emphasized.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE SOCY 275/3.0 or *SOCY 274/6.0*.

SOCY 389/3.0 Gender, Law and Crime

Investigation of gender differences in offending, victimization and criminal justice processing; Canadian research emphasized.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE SOCY 275/3.0 or *SOCY 274/6.0*.

SOCY 401/3.0 Advanced Studies in Contemporary Social Theory

Critical treatment of contemporary theories; emphasis upon logic of social inquiry.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 402/3.0 Families, Gender and the State

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'.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 403/3.0 Sociology of the Body

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 404/3.0 Sociology of Corporate Crime

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan and ([SOCY 275/3.0 and SOCY 276/3.0] or *SOCY 274/6.0*) 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 420/3.0 Program Evaluation

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 421/3.0 Multivariate Statistical Applications

Instruction and practice in building and testing multiple regression and logistic regression models with sociological data. Potential utility of alternative models considered.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 422/3.0 Advanced Studies in Communication and Information Technology

Examination of social implications of communication and information technology in the context of sociological theory.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 424/3.0 Sociology of Aging

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 425/3.0 Selected Topics in Sociology I

Consult the Department for possible offerings in any given year.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 426/3.0 Selected Topics in Sociology II

Consult the Department for possible offerings in any given year.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 427/3.0 Selected Topics in Sociology III

Consult the Department for possible offerings in any given year.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 428/3.0 Selected Topics in Sociology IV

Consult the Department for possible offerings in any given year.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 429/3.0 Selected Topics in Sociology V

Consult the Department for possible offerings in any given year.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 430/3.0 Sociology of Consumer Culture

A critical engagement with theories of consumer culture with emphasis upon the material, symbolic and practice-orientated aspects of consumption in sociological context; substantive focus upon shopping, taste, brands, tourism, services, digital commodities.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan and SOCY 306/3.0 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 431/3.0 Advanced Studies in Gender Relations

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan and *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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 454/3.0 Sociology of Organizations

This course will introduce students to the major theoretical approaches and ongoing debates within organization theory.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 457/3.0 Law and Social Structure

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 458/3.0 Law and Ideology

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 472/3.0 Topics in the Sociology of Development

Examination of the relevance of sociological theories for a cross-cultural understanding of development.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 475/3.0 Advanced Studies in Deviance and Social Control

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan and ([SOCY 275/3.0 and SOCY 276/3.0] or *SOCY 274/6.0*) 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 476/3.0 Advanced Topics in Surveillance Studies

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan and SOCY 309/3.0 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 (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 (a minimum GPA of 2.60 in all 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.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all 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.

LEARNING HOURS 126 (36S;90P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all 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.

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SOCY 520/6.0 Thesis

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.

LEARNING HOURS 240 (24I;216P)

PREREQUISITE Level 4 and registration in a SOCY Major or Medial Plan 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 (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 (a minimum GPA of 2.60 in all SOCY).

SPAN 111/3.0 Beginning Spanish I

Offers a basic level of Spanish understanding, speaking, reading and writing for students who have no knowledge of Spanish whatsoever.

NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.

NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;120;72P)

EQUIVALENCY *SPAN P10/3.0.*

ONE-WAY EXCLUSION May not be taken with or after SPAN 112/3.0; 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 201/6.0.*

SPAN 112/3.0 Beginning Spanish II

The continuation of SPAN 111/3.0. 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 Studies Centre, Herstmonceux. Learning Hours may vary.

LEARNING HOURS 120 (36L;60;78P)

PREREQUISITE A grade of C in SPAN 111/3.0 or *SPAN P10/3.0.*

EXCLUSION No more than 6.0 units from SPAN 111/3.0; SPAN 112/3.0; *SPAN P10/3.0.*

ONE-WAY EXCLUSION May not be taken with or after *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

A review of the fundamentals of Spanish, in cultural contexts, designed to develop aural, oral, reading and writing skills.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION 4U Spanish.

PREREQUISITE A grade of C in SPAN 112/3.0.

ONE-WAY EXCLUSION May not be taken with or after *SPAN 201/6.0;* 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 205/3.0 Español avanzado

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.

LEARNING HOURS 120 (36L;84P)

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 206/3.0 Spanish Conversation and Culture

This course is an intermediate conversation course designed to advance skills in oral communication and cultural competence, supported by grammar review and written assignments. Students will engage with different media sources, including Spanish-language film, news items, cultural readings, music and literary texts.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE A grade of C in SPAN 204/3.0.

COREQUISITE SPAN 205/3.0 or SPAN 302/3.0.

ONE-WAY EXCLUSION May not be taken with of after SPAN 401/3.0; SPAN 402/3.0.

SPAN 301/3.0 Gramática avanzada y composición I

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.

LEARNING HOURS 120 (36L;84P)

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

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

Intensive practice in advanced grammar with a focus on Spanish for business, technical, administrative and related cultural purposes.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE SPAN 201/6.0 or SPAN 205/3.0.

SPAN 304/3.0 Español para contextos profesionales II

Intensive practice in advanced grammar with a focus on Spanish for business, technical, administrative and related cultural purposes.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE SPAN 303/3.0.

SPAN 306/3.0 La narrativa hispanoamericana del siglo 20

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE SPAN 352/3.0.

COREQUISITE (SPAN 301/3.0 and SPAN 302/3.0) or (SPAN 303/3.0 and SPAN 304/3.0).

SPAN 310/3.0 Artistic Representations of the Spanish Civil War

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.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE SPAN 381/3.0.

SPAN 330/3.0 Cervantes I: Earlier Works

A study of Don Quijote I and a selection of his short theatrical Interludes. The course will consider the socio-economic and historical context and the literary implications of these works to provide a better understanding of 17th century Spain and the significance Cervantes' works still hold today.

NOTE Taught in English together with LLCU 330/3.0. Students concentrating in Spanish submit written assignments, tests and examinations in Spanish.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE SPAN 380/3.0.

COREQUISITE (SPAN 301/3.0 and SPAN 302/3.0) or (SPAN 303/3.0 and SPAN 304/3.0).

EXCLUSION No more than 3.0 units from LLCU 330/3.0; SPAN 330/3.0.

SPAN 331/3.0 Cervantes II: Later Works

A study of Don Quijote II and a selection of novellas from Cervantes' Exemplary Novels. The course will consider the socio-economic and historical context and the literary implications of the continuation of Don Quijote I to provide a better understanding of 17th century Spain and the significance Cervantes' works hold today.

NOTE Taught in English with LLCU 331/3.0. Written work and examinations are in Spanish. Readings are in translation.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE SPAN 330/3.0.

EXCLUSION No more than 3.0 units from LLCU 331/3.0; SPAN 331/3.0.

SPAN 332/3.0 Spanish Baroque Short Theatre

Short theatre played an important role in the theatre of Spanish Golden Age. In this course students will study the literary particularities of the genre and the social ramifications of the themes present in short theatre (gender, battle of the sexes, diversity, authority amongst others) and their historical and contemporary relevance.

NOTE Taught in English with LLCU 332/3.0. Written work and examinations are in Spanish. Readings are in translation.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE SPAN 380/3.0 or SPAN 381/3.0.

EXCLUSION No more than 3.0 units from LLCU 332/3.0; SPAN 332/3.0.

SPAN 333/3.0 Acting Out: Sexual and Gender Subversion in Baroque Theatre

Baroque playwrights took full advantage of the actor Juan Rana's well-known queerness to subvert implicitly and explicitly the social norms of sexual and gender identity still questioned today. Course will examine Spanish Baroque short theatre in general and historically contextualize its subversion of social, sexual, gender, and patriarchal norms.

NOTE Taught in English with LLCU 333/3.0. Students concentrating in Spanish submit written assignments, tests, and examinations in Spanish.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE SPAN 302/3.0.

EXCLUSION No more than 3.0 units from LLCU 333/3.0; SPAN 333/3.0.

SPAN 344/3.0 La sociedad española a través del cine

A study of changes in Spanish society as reflected in film and/or literature.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE SPAN 381/3.0.

COREQUISITE (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

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*.

SPAN 352/3.0 Panorama literario latinoamericano II

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*.

SPAN 354/3.0 Voces femeninas en America Latina

A study of recent contributions to Latin American cultural production by women, including an overview of gender issues and the role women have played in their nations' history. The course will also explore the variety of voices that make up the cultural production of women in Latin America in terms of class, ethnicity, race and sexual orientation.

NOTE Taught in English with LLCU 354/3.0. Student concentrating in Spanish submit written assignments, tests and examinations in Spanish.

LEARNING HOURS 120 (36S;84P)

PREREQUISITE SPAN 351/3.0 or SPAN 352/3.0.

COREQUISITE (SPAN 301/3.0 and SPAN 302/3.0) or (SPAN 303/3.0 and SPAN 304/3.0).

EXCLUSION No more than 3.0 units from LLCU 354/3.0; SPAN 354/3.0.

SPAN 380/3.0 Introducción: Literatura de España I

An introduction to the major authors and works of the literature of Spain from its beginnings to the end of the 17th Century. Through study and analysis students will obtain a general understanding of the main cultural, historical, and societal trends and movements during these periods.

PREREQUISITE *SPAN 201/6.0* or SPAN 205/3.0.

SPAN 381/3.0 Introducción: Literatura de España II

An introduction to the major authors and works of the literature of Spain from the Enlightenment to the present. Through study and analysis students will obtain a general understanding of the main cultural and historical and societal trends and movements during these eras.

PREREQUISITE *SPAN 201/6.0* or SPAN 205/3.0.

SPAN 401/3.0 Advanced Grammar Through Translation I

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

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

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 LLCU 316/3.0. Students concentrating in Spanish submit written assignments, tests, and examination in Spanish. Normally they will read Hispanic texts in the original.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE SPAN 352/3.0 or permission of the Department of Languages, Literatures and Cultures.

EXCLUSION No more than 3.0 units from LLCU 316/3.0; SPAN 406/3.0

SPAN 408/3.0 The Films of Pedro Almodóvar

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 LLCU 309/3.0. Students concentrating in Spanish submit written assignments, tests, and examination in Spanish.

LEARNING HOURS 120 (36L;36T;48P)

PREREQUISITE SPAN 381/3.0 (or permission of the Department of Languages, Literatures and Cultures).

EXCLUSION No more than 3.0 units from LLCU 309/3.0; SPAN 408/3.0.

SPAN 428/3.0 Gender, Development and Film in Latin America

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 LLCU 328/3.0. Students concentrating in Spanish submit written assignments, tests and examinations in Spanish.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE 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 LLCU 328/3.0; SPAN 428/3.0.

SPAN 458/3.0 Film y Política en Argentina

This course will examine critically a variety of representative Latin American films from a historical and filmic perspective. Beginning with the Peron era in the 1940s and 50s, and continuing through the dictatorship years of 1976 to 1983 and its aftermaths, we will examine how Argentine filmmakers express national reality and identity.

NOTE Taught in English with LLCU 358/3.0. Students concentrating in Spanish submit written assignments, tests and examinations in Spanish.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE 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 LLCU 358/3.0; LLCU 458/3.0.

SPAN 495/3.0 Literatura de España: Estudios independientes II

Seminar courses on topics in Spanish literature. Course details to be announced on website.

LEARNING HOURS 120 (36S;84P)

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

Seminar courses on topics in Spanish American literature. Course details to be announced on website.

LEARNING HOURS 120 (36S;84P)

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

Seminar courses on topics in Spanish literature. Course details to be announced on website.

LEARNING HOURS 120 (36S;84P)

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.

LEARNING HOURS 120 (120P)

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 online. Consult Arts and Science Online. Learning Hours may vary.

LEARNING HOURS 120 (36L;84P)

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; NURS 323/3.0; POLS 385/3.0; PSYC 202/3.0; SOCY 211/3.0; 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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE MATH 120/6.0 or MATH 121/6.0 or MATH 124/3.0.

COREQUISITE MATH 221/3.0 or MATH 280/3.0.

EXCLUSION No more than 3.0 units from 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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (MATH 221/3.0 or MATH 280/3.0) and (STAT 268/3.0 or STAT 351/3.0), or permission of the Department.

STAT 351/3.0 Probability I

Probability theory; probability models; random variables; jointly distributed random variables; transformations and generating functions. Inequalities and limit laws. Distributions: binomial, Poisson, exponential, gamma, normal. Applications: elementary stochastic processes, time-to-failure models, binary communication channels with Gaussian noise.

LEARNING HOURS 120 (36L;12T;72P)

COREQUISITE MATH 221/3.0 or MATH 280/3.0.

EXCLUSION No more than 3.0 units from STAT 351/3.0; STAT 268/3.0.

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (STAT 268/3.0 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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (MATH 110/6.0 or MATH 111/6.0 or MATH 112/3.0) and (STAT 268/3.0 or STAT 351/3.0) and (STAT 263/3.0 or STAT 269/3.0), 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

Markov chains, birth and death processes, random walk problems, elementary renewal theory, Markov processes, Brownian motion and Poisson processes, queuing theory, branching processes. Given jointly with STAT 855/3.0.

LEARNING HOURS 120 (36L;12T;72P)

PREREQUISITE STAT 353/3.0 or (STAT 269/3.0 or STAT 351/3.0 with permission of the Department).

STAT 456/3.0 Bayesian Analysis

An introduction to Bayesian analysis and decision theory; elements of decision theory; Bayesian point estimation, set estimation, and hypothesis testing; special priors; computations for Bayesian analysis. Given jointly with STAT 856/3.0.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE STAT 463/3.0 or permission of the Department.

STAT 457/3.0 Statistical Computing

Introduction to the theory and application of statistical algorithms. Topics include classification, smoothing, model selection, optimization, sampling, supervised and unsupervised learning. Given jointly with STAT 857/3.0.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE STAT 361/3.0 or ECON 351/3.0 or permission of the Department.

STAT 462/3.0 Computational Data Analysis

Introduction to the statistical packages SAS and R; classification; spline and smoothing spline; regularization, ridge regression, and Lasso; model selection; resampling methods; importance sampling; Markov chain Monte Carlo; Metropolis-Hasting algorithm; Gibbs sampling; optimization. Given jointly with STAT 862/3.0.

LEARNING HOURS 120 (36L;84P)

COREQUISITE STAT 361/3.0 or ECON 351/3.0, or permission of the Department.

STAT 463/3.0 Fundamentals of Statistical Inference

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.

LEARNING HOURS 132 (36L;96P)

RECOMMENDATION STAT 353/3.0.

PREREQUISITE STAT 269/3.0.

STAT 464/3.0 Discrete Time Series Analysis

Autocorrelation and autocovariance, stationarity; ARIMA models; model identification and forecasting; spectral analysis. Applications to biological, physical and economic data.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE STAT 361/3.0 or ECON 351/3.0, or permission of the Department.

STAT 465/3.0 Quality Management

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE STAT 263/3.0 or STAT 269/3.0 or permission of the Department.

STAT 471/3.0 Sampling and Experimental Design

Simple random sampling; Unequal probability sampling; Stratified sampling; Cluster sampling; Multi-stage sampling; Analysis of variance and covariance; Block designs; Fractional factorial designs; Split-plot designs; Response surface methodology; Robust parameter designs for products and process improvement. Offered jointly with STAT 871/3.0.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (STAT 361/3.0 or ECON 351/3.0) and STAT 463/3.0 or permission of the Department.

EQUIVALENCY STAT 362/3.0.

STAT 473/3.0 Generalized Linear Models

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.

LEARNING HOURS 120 (36L;84P)

PREREQUISITE (STAT 361/3.0 or ECON 351/3.0) and STAT 463/3.0 or permission of the Department.

STAT 486/3.0 Survival Analysis

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.

LEARNING HOURS 120 (36L;84P)

RECOMMENDATION STAT 462/3.0.

PREREQUISITE (STAT 361/3.0 or ECON 351/3.0) and STAT 463/3.0 or permission of the Department.

STAT 499/3.0 Topics in Statistics

An important topic in statistics not covered in any other courses.

PREREQUISITE Permission of the Department.

EXCLUSION *STAT 505/3.0.*

STAT 506/3.0 Topics in Statistics II

An important topic in probability or statistics not covered in any other course.

LEARNING HOURS 132 (24I;108P)

PREREQUISITE Permission of the Department.

STSC 300/3.0 Stage and Screen

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.

PREREQUISITE FILM 250/6.0 and (DRAM 237/3.0 or DRAM 238/3.0) and DRAM 251/3.0.

STSC 309/3.0 Special Topics in Stage and Screen

A seminar or workshop in selected areas of the curriculum in DRAM and FILM. Not offered every year. See Departments for details.

PREREQUISITE Level 3 in a DRAM, FILM, or STSC Plan, or permission of the Dan School of Drama and Music and the Department of Film and Media.

STSC 339/3.0 Media and Performance

An intermediate study that examines how performance shapes our social experiences and lived identities. From the daily acts of self-performance on social media to mega events, performance binds contemporary cultural practices, small and large.

NOTE Students will be required to attend a limited number of Kingston-based cultural productions over the course of the term.

LEARNING HOURS 120 (36L;12G;12Oc;60P)

PREREQUISITE Level 3 and registration in an ARTH, ARTV, DRAM, FILM, MUSC or STSC Plan.

STSC 381/3.0 Understanding Audiences: Spectatorship across the Arts

An intermediate study that examines the complex role of audiences in art and cultural practices from the late 19th century to the present. Drawing upon a range of media, including theatre, film, visual art, and gaming, it will explore dominant paradigms of spectatorship that characterize how audiences witness and play.

NOTE Students are required to attend several Kingston-based art and cultural events and may be required to attend a Toronto and/or Ottawa art and cultural event. Field trip fees will apply. See departmental webpage for more information. Estimated cost \$100.

LEARNING HOURS 120 (36L;36Oc;48P)

PREREQUISITE Level 3 and registration in an ARTH, ARTV, DRAM, FILM, MUSC or STSC Plan.

WRIT 120/3.0 Fundamentals of Effective Writing

A focus on the principles and practical applications of effective writing. Students apply effective writing strategies to address a variety of professional and academic audiences. Students plan, outline, write, and revise reader-centred documents that relate to forms and contexts they will encounter in the workplace and in educational environments.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 114 (360;78P)

WRIT 125/3.0 Fundamentals of Academic Essay Writing

A study of the basic principles of academic writing, including a series of assignments that emphasize logical organization, stylistic clarity, and grammatical precision.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 126 (660;60P)

EQUIVALENCY *WRIT P75/3.0.*

WRIT 175/3.0 Effective Writing II

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.

PREREQUISITE (3.0 units from WRIT 125/3.0 or *WRIT P75/3.0*) or permission of the instructor.

WRIT 225/3.0 Writing in Academic Contexts

Offering modules on ten types of writing often encountered in various academic fields in university, this course allows students to develop assignments based on the five most relevant to their program. Options range from reviews and lab reports to position papers and annotated bibliographies, complemented by a Grammar and Mechanics Assessment.

NOTE Offered only online. Consult Arts and Science Online.

LEARNING HOURS 114 (360;78P)

EQUIVALENCY *WRIT 195/3.0.*

EXCLUSION No more than 3.0 units from WRIT 225/3.0; *WRIT 195/3.0.*

PREREQUISITE WRIT 125/3.0

WRIT 235/6.0 Writing in the Community

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 240/3.0 Writing for Social Media and the Web

Students are introduced to professional writing in the context of online media. As students write and critically assess writing in the genres of blog entries, Twitter essays, and other forms of social media, they strengthen writing and editing skills, write according to purpose and audience, and recognize various styles in social media writing.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 120 (360;84P)

PREREQUISITE WRIT 120/3.0 or WRIT 125/3.0.

WRIT 250/3.0 Writing in Business Contexts

A focus on the principles of business writing. Students analyze workplace contexts and identify writing strategies best suited to address business problems. Students research, organize, design, and create reader-centred documents and various electronic and print texts that relate to practical situations they will encounter in the business world.

NOTE Only offered online. Consult Arts and Science Online.

LEARNING HOURS 114 (360;84P)

PREREQUISITE WRIT 120/3.0 or WRIT 125/3.0 or permission of the instructor.

WRIT 265/3.0 **Editing in Academic and Professional Contexts**

This course introduces the levels of editing – substantive, stylistic, and copyediting – and how to apply these skills to academic and professional documents such as reports, essays, articles, and newsletters. The course will give students the tools both to revise their own work and to edit the work of others for greater clarity.

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 Only offered online. Consult Arts and Science Online.

LEARNING HOURS 114 (360;78P)

PREREQUISITE WRIT 125/3.0 or permission of the instructor.

WRIT 275/3.0 **Analytical Writing**

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 290/3.0 **Writing 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 Only offered online. Consult Arts and Science Online.

LEARNING HOURS 114 (360;78P)

EQUIVALENCY *WRIT 295/3.0.*

PREREQUISITE WRIT 125/3.0 or permission of the instructor.

EXCLUSION No more than 3.0 units from WRIT 290/3.0; *WRIT 295/3.0.*